



ACE

ABSOLUTE CLEAN ENERGY
PUBLIC COMPANY LIMITED

Annual Report
2022
(Form 56-1 One Report)

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Vision

A world leading clean and sustainable power producer, that is responsible for environment, society, and shareholders under good governance

Mission

- 1) To be one of the world's leading power producers with the most effective electricity generating system.
- 2) To expand our business both domestically and internationally.
- 3) To create continuous prosperity and everlasting longevity through sustainable business practices that are responsible to environment, society, and shareholders.
- 4) To operate the business under good governance.





Goals

The Company aims to continuously expand the investment in all types of clean energy power plants which are responsible for the environment and community both domestically and internationally, together with the investment in businesses and innovations which are able to relieve or solve Global Warming and Climate Change, as well as to improve the quality of life of farmers who are our partners and communities surrounding the Group's power plants. The Company also aspires to become an organization with net-zero greenhouse gas emissions by 2050.

Business Strategy

The Company has defined the business strategy as follows:

- Develop an organization to meet the needs of all sector
- Systematically manage company
- Develop proficiency in management
- Innovative Creation for the highest performance electricity generator
- Develop and provide stable and sustainable fuel
- Create profitability along with social and environmental responsibility
- Growth stable and sustainable



จิราธร สงเมตตา

Ms. Jiratha Songmetta
Executive Chairman

Message from the Executive Chairman

Dear Shareholders

The Thai economy in 2022 has expanded by 2.6%, a slight increase compared to that in 2021 with a growth rate of 1.6% as a result of the recovery of private consumption and the tourism sector, after the COVID-19 pandemic situation subsided and international travel measures were gradually relaxed. However, the average annual headline inflation rate was high at 6.1%, the highest in 24 years since 1998, and the interest rate has seen an upward trend, with 3 continuous announcements by the MPC to raise the policy interest rate, totaling 0.75% per year, to 1.25% per year in late 2022.

Due to the such economic conditions, Absolute Clean Energy Public Company Limited (“the Company” or “ACE”) had to adjust its business strategy for the year 2022 to suit the situation by focusing on risk management, cost management, improvement of power plant machinery efficiency, and preparation for future business expansion. As a result, in 2022, the Company achieved satisfactory operating results, even without any new power plant projects achieving commercial operation (COD) in addition to 2021. The company generated total income of 6,917.0 million

baht, an increase of 20.8% from 2021 which was 5,726.9 million baht, with a net profit of 1,282.0 million baht. Furthermore, in 2022, ACE was also selected by the Stock Exchange of Thailand to be on the 2022 THSI (Thailand Sustainability Investment) index, which comprises of the listed companies that conduct sustainable business operations, in the resources industry group. ACE was one of the 26 listed companies that were selected for the first time, out of a total of 170 listed companies selected to be on the list, and was the first listed company whose main business is biomass power plant operation that was selected to be on the list.

For the direction of operations in 2023, the Company continues to expand its investment in all types of clean energy power plant projects that are friendly to the environment and communities, both domestically and internationally. It also aims to expand the scope of investment to businesses and innovations that alleviate or solve global warming and climate change crises, along with improving the quality of life of agriculturists who are our partners in communities surrounding power plants of ACE Group through various CSR activities that the Company has been continuously carrying out. The Company's major long-term goal is to become an organization with net zero greenhouse gas emissions by 2050.

On behalf of Absolute Clean Energy Public Company Limited, I would like to express my gratitude to the shareholders, customers, partners, alliances, agriculturists, communities, community enterprises, financial institutions, and relevant government and private agencies that have always entrusted and supported ACE Group. I would also like to thank all the directors, executives and employees of ACE Group who have sacrificed their time, their physical and mental strength to drive the Company forward with indomitable determination. I assure the shareholders that the Company is strongly committed to lead the organization to become one of the leaders driving Thailand's economy towards sustainable green energy business, according our visions and aspirations: to be the world leading clean and sustainable power producer that is responsible for the environment, society, shareholders, and all stakeholders by adhering to the principles of Environmental Social and

Governance, Total Societal Impact, Good Corporate Governance and Sustainability.



Part 1

Business and Operating Performance





Convert Plants to Energy

1. Business Structure and Operating Performance

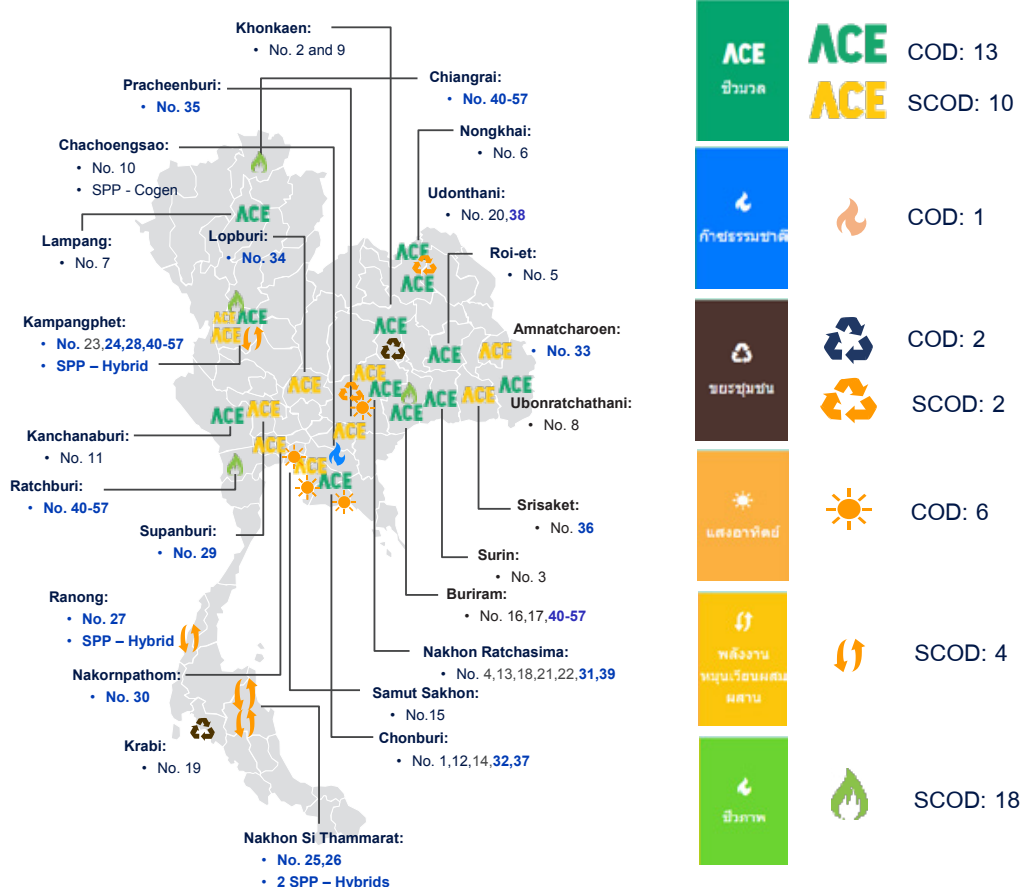
1.1 Business Overview

Absolute Clean Energy Public Company Limited (“the Company” or “ACE”) operates mainly as a holding company which invests in companies that either generate and sell electricity and steam both domestically and internationally or support the generation of electricity and steam.

Project status as of 31 December 2022

COD: 23 projects with a total installed capacity of 257.57 megawatts.

Under development: 34 projects under development with a total installed capacity of 270.80 megawatts



Business Overview

History, Significant Changes and Developments

Initially, the Songmetta group, the largest shareholder of the group, conducted a business of researching and developing energy crops, growing fast-growing trees, and producing, selling and exporting plant-based products like hardboards and wood chips. Songmetta group was one of the world's largest players in this field. As a result, the Group has to deal with a large number of unused wood and agricultural wastes as production leftover. Tasked with the need to dispose these wastes in an environmentally friendly way at high cost, the Group aims to develop a new business that creates economic use of them. The Group found a solution to recycle and transform these unused woods and other agricultural wastes into other usable agricultural products. Moreover, as the Energy Policy and Planning Office (EPPO) had released a 15-year renewable energy policy from 2008-2023. The policy is to make Thailand use more renewable energy and import less oil and natural gas, and support research and development of renewable energy in the country. The policy is also aware of the measures to promote the use of biomass fuels by providing benefits for taxes and subsidizing the electricity price (Adder) for very small power producers (VSPP) and small power producers (SPP). Songmetta group saw the business opportunity in the biomass-energy-power-plant industry. Therefore, the Group founded Advance Clean Power Co., Ltd. (ACP) in 2008. ACP submitted the proposal for selling electricity to the Provincial Electricity Authority of Thailand (PEA) and was awarded the Power Purchase Agreement (PPA) of 8.0 megawatts on 21 July 2009.

Later, on 5 August 2009, ACP increased the registered capital from the initial registered capital of 5 million baht, with 500,000 common shares at 10-baht par value to 500 million baht, with 50 million common shares at 10-baht par value. The 125-million-baht paid-up capital was utilized for developing the biomass power plant in Nong-eeroon sub-district, Baan Bueng district, Chonburi, as well as acquiring various licenses as required by law. The power plant was constructed and commenced Commercial Operation (COD) on April 24, 2012, being the Group's first power plant project.

In the middle of 2015, Songmetta group had bought shares of Asia Clean Energy Co., Ltd. (ASCE), founded at the beginning of 2008 by another shareholder group. The Group changed ASCE's business objectives from transporting business to be a holding company for companies that generate and sell electricity and steam and companies that support the production and selling of electricity and steam in Thailand. Afterwards, ASCE had bought shares of the subsidiary companies of Songmetta group, consisting of ALCP, AAP, ABA, BPP, ACE, SOLAR, and AAA. Combined with AAPP, ACP, AFT that ASCE already owned, ASCE had become the owner of the power plants for Songmetta group, as the group restructured its business operations.

At the end of 2015, Absolute Clean Energy Co., Ltd. (ACE) was founded with the objective to operate as a holding company for companies that generate and sell electricity and steam and companies that support the production and selling of electricity and steam for the Group. ACE also became a 100% shareholder of ASCE, under the new group structure.

In 2018, PSMS was founded by the group to provide a maintenance service for the group's power plants. The group also bought shares of ACW, as part of reconstruction plan. Moreover, the company had also converted ACE from a limited company to a public company.

At the end of 2019, the company had issued the Initial Public Offering (IPO) for the first time. The common share of the company was listed and began trading in SET for the first time on November 13, 2019.

In August 2020, ASCE has acquired all common shares. 100% of the 3 biomass power plant operator companies, AAE, ABE and SBM, with a total installed capacity of 26.9 MW, with a total power purchase agreement with the Provincial Electricity Authority of 22.5 MW by acquisition of shares. As a result, AAE, ABE and SBM are indirect subsidiaries of the Company.

In 2021, the Group continues to focus on expanding investment in renewable clean energy power plant projects, that is friendly to the environment and the community. In this year, the Company's indirect subsidiary won the bidding and has been selected to invest, develop, and operate its close-system municipal solid waste (MSW) disposal (waste to energy) projects, 2 additional projects with total 19.8 MW of installed capacity and 16.0 MW of power purchase agreement (PPA) capacity. Including won the bidding and were selected to participate in the community power plant project for the foundation economy, the biogas power plant project (energy crops) totaling 18 projects with total 59.0 MW of installed capacity and 50.0 MW of power purchase agreement (PPA) capacity.

For the year 2022, the Board of Directors approved the share repurchase project for financial management purposes (Treasury stock) in the amount of not more than 1,000 million baht, the number of shares is not more than 400 million shares. At the end of the project, the Company has repurchased a total of 100,365,600 shares, representing 0.99% of the total paid-up shares with the total value of 268,009,931 baht. In addition, ACE has also been selected to be on the list of THSI (Thailand Sustainability Investment) for the year 2022 in the resource group from the Stock Exchange of Thailand (SET), which was the first year for the ACE assessment. There were 170 listed companies in the THSI Index for this year.

Summary of the history and important development

Absolute Clean Energy Public Company Limited (“the Company” or “ACE”)

<p>2015</p>	<p>On 1 December</p> <p>ACE was established by Songmetta group with the objective to be a holding company for companies that generate and sell electricity and steam and companies that support the production and selling of electricity and steam.</p> <p>On December 21</p> <p>The extraordinary general meeting of the company resolved that ACE invested in ASCE, which operates as a holding company for companies that generate and sell electricity and steam, by buying the common share of ASCE for a total of 649,999,998 shares to reconstruct the shareholding of the companies that sell and generate electricity in the Songmetta group to prepare to be listed on the SET, making the company held the proportion of 100 percent of the registered capital of ASCE.</p>
<p>2016</p>	<p>On June 6</p> <p>The 1/2016 extraordinary general meeting resolved to increase the registered capital from 300,500,000 baht to 4,502,499,980 baht by offering new common share to the existing shareholders of the company.</p> <p>On August 30</p> <p>Songmetta group sold a total of 34,500,000 shares of the common share, or as a proportion of 7.66% of total registered capital of the company to non-related new shareholder groups, consisting of Siam Commercial Bank Public Company Limited, Brooker Group Public Company Limited, Chirathivat group, and Mrs. Wallaya Damnoencharnvanich, making the proportion of shares of Songmetta group reduced to 92.34% of the total registered capital.</p>

2017	<p>On June 29</p> <p>ACE increased the registered capital from 4,502,499,980 baht to 4,578,999,980 baht. The company offered a total of 7,650,000 new common share of 10.00 baht to the existing shareholders of the company. As a result, the proportion of shareholding of Songmetta group was increased to 92.47% of the total registered capital.</p> <p>The 1/2017 extraordinary general meeting resolved to appoint Ms. Chonticha Chitraporn, Mrs. Patchanee Sutheevitanunt, and Mr. Nuekrak Baingern to become 3 new directors and independent directors. All of them were assigned to become members of the audit committee to prepare for becoming a listed company in SET.</p> <p>From October to December</p> <p>Songmetta group sold a total of 6,719,126 shares of the common share, or as a proportion of 1.47% of total registered capital of the company to 19 retail investors, making the proportion of shares of Songmetta group reduced to 91.00% of the total registered capital.</p>
2018	<p>In March</p> <p>Songmetta group sold a total of 20,043,374 shares of the common share, or as a proportion of 4.37% of total registered capital of the company to a new shareholder group. Songmetta group also bought back 12,500,000 shares, or as a proportion of 2.73% of total registered capital of the company from one shareholder, making the proportion of shareholding of Songmetta group reduced to 89.35% of the total registered capital.</p> <p>On July 14</p> <p>ACE's 1/2018 extraordinary general meeting resolved to</p> <ul style="list-style-type: none"> - Convert the company to a public company - Change the par value of ACE common share to be 0.50 baht per share - Increase the registered capital from 4,578,999,980 baht to 5,487,999,980 baht by offering a total of 1,818,000,000 new common share to the public for the first time. <p>On July 16</p> <p>ACE completed converting into a public company.</p> <p>In October</p> <p>Songmetta group transferred a total of 227,222,920 shares of common share, or as a proportion of 2.48% of total registered capital of the company to one non-related current shareholder group, making the proportion of shares of Songmetta group reduced to 86.87% of the total registered capital.</p> <p>On November 9</p> <p>ACE's 2/2018 extraordinary general meeting (after converting) resolved that ACE can issue and offer debentures in an amount not exceeding 5,000 million baht</p> <p>On December 20</p> <p>ACE issued and offered debentures that have specified name, insurance, shareholder's representative which the debenture issuer has the right to redeem the debentures before the maturity date. The offered price was 1,500 million baht with a fixed interest rate of 6.80% per annum, and the redemption date was 20 June 2020.</p>
2019	<p>On October 9</p> <p>The Board of directors' meeting no.9/2019 resolved to sell a total of new 1,018 million shares via the Initial Public Offering (IPO) to the public.</p> <p>On October 28</p> <p>The 1/2019 extraordinary general meeting approve the company to buy shares of Advance Power Plant Co., Ltd. from a Songmetta group, a related party, with the budget between 394 million baht and 472 million baht, with the payment and transfer of shares scheduled on the same day, which was within 120 days after the signing date of the purchase of Advance Power Plant Co., Ltd., with a contract to purchase the shares within 6 months from August 28, 2019 or within 15 days after Advance Power Plant Co., Ltd. and EGAT had signed a FiT power purchase contract from PEA, whichever event came first.</p>

	<p>On November 13 The common share of the company was listed and started trading in SET for the first time.</p> <p>On December 20 The Company had redeemed all of the debentures before the maturity date. As of December 31, the company was in the process of releasing the collateral for the debentures.</p>
2020	<p>On May 15 The Board of Directors' Meeting No. 4/2020 approved an interim dividend payment from unappropriated retained earnings as of March 31, 2020 at the rate of 0.03 baht per share and paid to the shareholder on 15 June.</p>
2021	<p>On April 22 National Clean Energy Company Limited ("NCE"), an indirect subsidiary won the e-bidding and has been selected to invest, develop, and operate its municipal solid waste (MSW) disposal (waste to energy) project at Chiangwang Subdistrict Administrative Organization, Udonthani Province with 9.9 MW of installed capacity and 8.0 MW of power purchase agreement (PPA) capacity</p> <p>On April 28 The 2021 Annual General Meeting of Shareholders resolved to approve the payment of the remaining dividends. from the Company's performance for the period April-December and unappropriated retained earnings as of December 31, 2020 at the rate of 0.018 baht per share. Dividends have been paid to shareholders on May 13, 2021.</p> <p>On May 7 Absolute Power Plant Company Limited ("ABP"), an indirect subsidiary won the e-bidding and has been selected to invest, develop, and operate its municipal solid waste (MSW) disposal (waste to energy) project at Chokchai Subdistrict Administrative Organization, Nakhon Ratchasima Province with 9.9 MW of installed capacity and 8.0 MW of power purchase agreement (PPA) capacity</p> <p>On September 23 18 indirect subsidiaries of the Company that have been selected to participate in the Community Power Plant for Local Economy Project (Pilot Project) with total installed capacity and total power purchase agreement (PPA) capacity of 59.00 MW and 50.00 MW respectively and all of them are biogas (energy crops) power plant projects</p> <p>On October 11 The Company has been assigned a company rating of "BBB+" (Triple B Plus) with "Stable" outlook from the credit rating agency TRIS Rating. Ltd.</p>
2022	<p>On February 14 18 indirect subsidiaries signed 18 PPAs (18 Community Power Plants for Local Economy Project). The PPAs are currently waiting to be signed by the Provincial Electricity Authority (PEA) and the Provincial Electricity Authority has signed the PPAs (on February 21, 2023).</p> <p>On May 11 The Company made dividend payment of 2021 at the rate of THB 0.02 per share, totaling THB 203.5 million.</p> <p>On June 15 The Company BOD's meeting has approved the Share Repurchase Project for Financial Management Purpose (Treasury Stock) in the amount of not exceeding Baht 1,000 million, number of shares to be repurchased not exceeding 400 million shares. At the end of the project on December 31, 2022, the Company has repurchased a total number of 100,365,600 shares, equivalent to 0.99% of the paid-up capital, and the total payment made was Baht 268,009,931.13.</p> <p>On October 10 ACE was included in the THSI Index (Thailand Sustainability Investment) as one of Thailand sustainable stocks for the year 2022 (the first year of submission).</p>

• **Asia Clean Energy Co., Ltd. (“ASCE”) (Direct Subsidiary Company)**

Year	Important Development
2008	- On August 7, ASCE (formerly known as Asia Eco Energy Co., Ltd.) was founded by a group that was not related to Songmetta group). ASCE did not conduct any business at that time.
2009	- In June, ASCE bought all of the shares from AAPP, ACP, and AFT from Songmetta group. As a result, ASCE held 100% of the proportion of the paid registered capital of AAPP, ACP, and AFT. None of the 4 companies conduct any business at that time. - On August 24, Songmetta group acquired a 50% share of ASCE, from the existing shareholders. - ASCE increased the registered capital by offering shares to the shareholders in the Songmetta group. As a result, the proportion of share of Songmetta group was increased to 99.88% of the total registered capital.
2010	- On December 23, Songmetta group bought a total of 0.12% share of the total registered capital from non-related existing shareholders, increasing the Songmetta group shareholding to 100% of the paid registered capital.
2015	- On March 21, the meeting of the board of directors resolved to allow ASCE to invest in companies, namely, ALCP, AAP, ABA, BPP, ACE SOLAR, AAA, that operates in the production and selling of electricity and steam by buying the shares from Songmetta group to adjust the shareholding structure of Songmetta group to make companies that operates in the production and selling of electricity and steam all came under ASCE. - making ASCE held the proportion of 100 percent of the registered capital of the mentioned companies. - On May 15, ASCE has changed its name from Asia Eco Energy Co., Ltd. to Asia Clean Energy Co., Ltd. - On December 30, ACE, a new company established by Songmetta group, invested in ASCE for a proportion of 100%, ACE bought the shares of ASCE from Songmetta group. The value is based on the net asset value of ASCE in order to restructure the group to prepare to be listed in the SET.
2018	- On May 3, ASCE established of PSMS with the objective to engage into the engineering and maintenance business of renewable energy power plants. with registered capital 20,000,000 baht - On October 16, the meeting of the board of directors resolved to allow ASCE to invest in PSPR with the objective to generate and sell electricity and steam by buying the shares from Songmetta group to adjust the shareholding structure of Songmetta group to make companies that operates in the production and selling of electricity and steam all came under ASCE.
2020	- On August 21, ASCE has acquired all ordinary shares. 100% of the 3-biomass power plant project operators, AAE, ABE and ACES - On March, ASCE established 5 indirect subsidiaries, consisted of PRE, REC, REN, RENE and RESM to support the business expansion. In addition, these indirect subsidiary companies have registered 157 subsidiaries to support future projects.
2021	- ASCE has increased its registered capital from paid-up capital 9,000,000,000 baht / 900,000,000 shares as paid-up capital 9,327,000,000 baht / 950,000,000 shares (par value of 10 baht / share, which are 900,000,000 paid-up shares and 6.54 baht / share, 50,000,000 shares) whereby ACE is still a shareholder in 100% proportion
2022	- ASCE has called up 50,000,000 ordinary shares (par value of 10 baht/share) from 6.54 baht/share to 10.00 baht/share, totaling 173,000,000 baht. And has increased capital by issuing new ordinary shares in the amount of 1,500,000,000 baht, divided into 150,000,000 ordinary shares with a par value of 10 baht per share, making ASCE have registered capital at the end of the year 11,000,000,000 baht / 1,100,000,000 shares (par value 10 baht/share, fully paid-up shares) whereby ACE is still a shareholder in 100% proportion.

Company Information

Company Name	Absolute Clean Energy Public Company Limited ("The Company")
Head Office Location	140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500
Business Type	Holding Company of businesses that generate and sells electricity and steam
Tel / Fax	081-1048821 / None
Website	http://www.ace-energy.co.th
Registered Capital	5,487,999,980 baht / 10,975,999,960 shares (0.50 baht/share)
Paid-up Capital	5,087,999,980 baht / 10,175,999,960 shares (0.50 baht/share)

As of December 31, 2022, the Company has total of 40 subsidiaries, consisting of 1 direct subsidiary company and 39 indirect subsidiaries ("the Company" and "the Group of Companies"). The details are in accordance with the rules applicable to listed companies and public limited company with duties pursuant to Section 56 of the Securities and Exchange Act as follows:

Subsidiaries	Name	% Shareholding	Business Type
Information regarding the juristic persons that The Company directly hold at least 10% of the total registered shares			
Direct Subsidiary			
1) Asia Clean Energy Co., Ltd. Former Name Asia Eco Energy Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up Capital 11,000,000,000 baht / 1,100,000,000 shares (par value 10 baht/share with fully paid-up capital)	ASCE	100.0	Holding Company for businesses that produce and distribute electricity and steam, including other support businesses, focusing on domestic operations.
Information regarding the juristic persons that the Company indirectly hold at least 10% of the total registered shares via ASCE			
Indirect Subsidiary *			
1) Advance Clean Power Co., Ltd. Head Office Location 665 Village No.6, Nong Irun Sub-district, Ban Bueng, Chonburi 20220 Branch Office Location (1) 38 Village No.11, Wang Samakki, Phon Thong, Roi Et 45110 (2) 224 Village No.6, Bo Ploy sub-district, Bo Ploy, Kanchanaburi 71160 Paid-up Capital 1,778,650,000 baht / 200,000,000 shares (105,000,000 shares are fully paid-up capitals at a par value of 10 baht/share, and other 95,000,000 shares are paid-up capital at 7.67 baht/share)	ACP	100.0	Biomass Power Plant Production and distribution of electricity and steam business
2) Alliance Clean Power Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Branch Office Location (1) 131 Village No.1, Phra Phutthabat, Sri Chiang Mai, Nong Khai 43130	ALCP	100.0	Biomass Power Plant and Municipality Solid Waste-to-Energy Power Plant Production and distribution of electricity and steam business

Subsidiaries	Name	% Shareholding	Business Type
(2) 190 Village No.4, Fang Kham, Sirindhorn, Ubon Ratchathani 34350 (3) 370 Village No.7, Non-Thon sub-district, Mueang, Khonkaen 40000 (4) 197 Village No.1 Sai Thai sub-district, Mueang, Krabi 81000 Paid-up Capital 2,749,050,000 Baht / 290,000,000 shares (217,000,000 shares are fully paid-up capitals at a par value of 10 baht/share, and other 55,000,000 shares are paid-up capital at 9.71 baht/share and other 18,000,000 shares are paid-up capital at 2.50 baht/share)			
2.1) National Clean Energy Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up Capital 206,862,400 Baht / 55,000,000 shares (10,000 shares are fully paid-up capitals at a par value of 10 baht/share, and other 54,990,000 shares are paid-up capital at 3.76 baht/share)	NCE	90.0	Share-holding by ALCP Production and distribution of electricity and steam (Not start operation) In 2021, the companies were selected as the operators of municipal solid waste management power plant projects
2.2) Absolute Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Branch Office Location 88 Village No.14, Chokchai sub-district, Chokchai, Nakhon Ratchasima 30190 Paid-up Capital 237,656,800 Baht / 55,000,000 shares (10,000 shares are fully paid-up capitals at a par value of 10 baht/share, and other 54,990,000 shares are paid-up capital at 4.32 baht/share)	ABP	90.0	
3) Advance Agro Power Plant Co., Ltd. Head Office Location 231 Village No.1, Tani sub-district, Prasat, Surin 32140 Branch Office Location (1) 19 Village No.14, Chokchai sub-district, Chokchai, Nakhon Ratchasima 30190 Paid-up Capital 1,000,000,000 baht / 100,000,000 shares (par value 10 baht/share with fully paid-up capital)	AAPP	100.0	Biomass Power Plant Production and distribution of electricity and steam business
4) Advance Asia Power Plant Co., Ltd. Head Office Location 385 Village No.12, Muang Whan sub-district, Nam Phong, Khon Kaen 40310 Paid-up Capital 570,725,000 Baht / 57,500,000 shares (50,000,000 shares are fully paid-up capitals at a par value of 10 baht/share, and other 7,500,000 shares are paid-up capital at 9.43 baht/share)	AAP	100.0	Biomass Power Plant Production and distribution of electricity and steam business, sorting and land-fill non-hazardous waste.
5) Advance Bio Asia Co., Ltd. Head Office Location 88 Village No.8, Mae Thot sub-district, Thoen, Lam Pang 52160 Paid-up Capital 699,500,000 Baht / 75,000,000 shares (50,000,000 shares are fully paid-up capitals at a par value of 10 baht/share, and other 25,000,000 shares are paid-up capital at 7.98 baht/share)	ABA	100.0	Biomass Power Plant Production and distribution of electricity and steam business

Subsidiaries	Name	% Shareholding	Business Type
6) Advance Farm Tree Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up Capital 8,200,000 Baht / 1,000,000 shares (400,000 shares are fully paid-up capitals at a par value of 10 baht/share, and other 600,000 shares are paid-up capital at 7.00 baht/share)	AFT	100.0	Biomass Power Plant Production and distribution of electricity and steam business
7) Bio Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up Capital 530,150,000 Baht / 65,000,000 shares (48,000,000 shares are fully paid-up capitals at a par value of 10 baht/share, and other 17,000,000 shares are paid-up capital at 2.95 baht/share)	BPP	100.0	Biomass Power Plant Production and distribution of electricity and steam business
8) ACE SOLAR Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up Capital 343,220,000 Baht / 38,000,000 shares (32,000,000 shares are fully paid-up capitals at a par value of 10 baht/share, and other 6,000,000 shares are paid-up capital at 3.87 baht/share)	ACE SOLAR	100.0	Biomass Power Plant and Solar Power Plant Production and distribution of electricity and steam business
9) Absolute Clean Water Co., Ltd. Former Name Prasatporn Rungrueng Co., Ltd. (PSPR) Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up Capital 180,299,000 Baht / 20,000,000 shares (100,000 shares are fully paid-up capitals at a par value of 10 baht/share, and other 19,900,000 shares are paid-up capital at 9.01 baht/share)	ACW	100.0	Biomass Power Plant Production and distribution of electricity and steam business
10) Advance Agro Asia Co., Ltd. Head Office Location 224 Village No.7, Ko Khanun sub-district, Phanomsarakham, Chachoengsao 24120 Branch Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up Capital 1,500,000,000 baht / 150,000,000 shares (par value 10 baht/share with fully paid-up capital)	AAA	100.0	Natural Gas Power Plant Production and distribution of electricity and steam business
11) Advance Asia Energy Co., Ltd. Former Name UWC Gomen Biomass Co., Ltd. ("UKB") Head Office Location 386 Moo 8, Mittraphap Rd., Ban Poe sub-district, Maung Nakorn Ratchasima 30310 Paid-up Capital 540,120,000 Baht / 65,000,000 shares (24,000,000 shares are fully paid-up capitals at a par value of 10 baht/share, and other 41,000,000 shares are paid-up capital at 7.32 baht/share)	AAE	100.0	Biomass Power Plant Production and distribution of electricity and steam business
12) Advance Bio Energy Co., Ltd. Former Name UWC Amphan Biomass Co., Ltd. ("UAB") Head Office Location 100 Moo 6, Don Mon Sub-district, Satuek, Buriram 31150	ABE	100.0	Biomass Power Plant Production and distribution of electricity and steam business

Subsidiaries	Name	% Shareholding	Business Type
Paid-up Capital 650,000,000 baht / 6,500,000 shares (par value 100 baht/share with fully paid-up capital)			
13) Absolute Clean Engineering and Service Co., Ltd. Former Name Satuk Biomass Co., Ltd. ("SBM") Head Office Location 100 Moo 6, Don Mon Sub-district, Satuek, Buriram 31150 Paid-up Capital 590,000,000 baht / 5,900,000 shares (par value 100 baht/share with fully paid-up capital)	ACES	100.0	Biomass Power Plant Production and distribution of electricity and steam business and maintenance engineering services business, which currently mainly provides maintenance services within the Group.
14) Power Supply and Maintenance Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up Capital 82,000,000 baht / 8,200,000 shares (par value 10 baht/share with fully paid-up capital)	PSMS	100.0	Maintenance engineering services business, which currently mainly provides maintenance services within the Group.
15) Provincial Renewable Energy (Thailand) Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up Capital 128,800,000 Baht / 22,000,000 shares (3,000,000 shares are fully paid-up capitals at a par value of 10 baht/share, and other 19,000,000 shares are paid-up capital at 5.20 baht/share)	PRE	100.0	Holding Company
15.1) Khun Tan Kow Na Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 7,777,780 baht / 777,778 shares (700,000 ordinary shares with a par value of 10 baht/share fully paid up and 77,778 preferred shares with a par value of 10 baht/share)	KTNP	90.0	Share-holding by PRE Production and distribution of electricity and steam (Not start operation) In 2021, the companies have been selected to participate in the Community Power Plant Project for the Local Economy. (Pilot project)
15.2) Khun Tan Pattana Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 7,777,780 baht / 777,778 shares (700,000 ordinary shares with a par value of 10 baht/share fully paid up and 77,778 preferred shares with a par value of 10 baht/share)	KTDP	90.0	
15.3) Khun Tan Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 7,777,780 baht / 777,778 shares (700,000 ordinary shares with a par value of 10 baht/share fully paid up and 77,778 preferred shares with a par value of 10 baht/share)	KTPP	90.0	
15.4) Rang Bua Kow Na Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 5,555,560 baht / 555,556 shares (500,000 ordinary shares with a par value of 10 baht/share fully paid up and 55,556 preferred shares with a par value of 10 baht/share)	RBNP	90.0	

Subsidiaries	Name	% Shareholding	Business Type
15.5) Chom Bueng Rung Rieang Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 7,777,780 baht / 777,778 shares (700,000 ordinary shares with a par value of 10 baht/share fully paid up and 77,778 preferred shares with a par value of 10 baht/share)	CBRP	90.0	
16) Renewable Energy (Central) Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up Capital 74,360,000 Baht / 15,000,000 shares (2,800,000 shares are fully paid-up capitals at a par value of 10 baht/share, and other 12,200,000 shares are paid-up capital at 3.80 baht/share)	REC	100.0	Holding Company
16.1) Khun Tan Ruem Chai Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 7,777,780 baht / 777,778 shares (700,000 ordinary shares with a par value of 10 baht/share fully paid up and 77,778 preferred shares with a par value of 10 baht/share)	KTRC	90.0	Share-holding by REC Production and distribution of electricity and steam (Not start operation) In 2021, the companies have been selected to participate in the Community Power Plant Project for the Local Economy. (Pilot project)
16.2) Ta Rung Rueang Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 5,555,560 baht / 555,556 shares (500,000 ordinary shares with a par value of 10 baht/share fully paid up and 55,556 preferred shares with a par value of 10 baht/share)	TRRP	90.0	
16.3) Khanu Waralaksaburi Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 22,222,230 baht / 2,222,223 shares (2,000,000 ordinary shares with a par value of 10 baht/share fully paid up and 222,223 preferred shares with a par value of 10 baht/share)	WLCPP	90.0	
16.4) Kamphaeng Phet Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 22,222,230 baht / 2,222,223 shares (2,000,000 ordinary shares with a par value of 10 baht/share fully paid up and 222,223 preferred shares with a par value of 10 baht/share)	KACPP	90.0	
16.5) Khlong Khlung Development Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 7,777,780 baht / 777,778 shares (700,000 ordinary shares with a par value of 10 baht/share fully paid up and 77,778 preferred shares with a par value of 10 baht/share)	KHLCP	90.0	

Subsidiaries	Name	% Shareholding	Business Type
17) Renewable Energy (North) Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up Capital 137,500,000 Baht / 40,000,000 shares (5,000,000 shares are fully paid-up capitals at a par value of 10 baht/share, and other 35,000,000 shares are paid-up capital at 2.50 baht/share)	REN	100.0	Holding Company
17.1) Buriram Ruam Chai Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 7,777,780 baht / 777,778 shares (700,000 ordinary shares with a par value of 10 baht/share fully paid up and 77,778 preferred shares with a par value of 10 baht/share)	BURC	90.0	Share-holding by REN Production and distribution of electricity and steam (Not start operation) In 2021, the companies have been selected to participate in the Community Power Plant Project for the Local Economy. (Pilot project)
17.2) Kamphaeng Phet Development Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 7,777,780 baht / 777,778 shares (700,000 ordinary shares with a par value of 10 baht/share fully paid up and 77,778 preferred shares with a par value of 10 baht/share)	KAMD	90.0	
18) Renewable Energy (Northeast) Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up Capital 224,760,000 Baht / 48,000,000 shares (12,000,000 shares are fully paid-up capitals at a par value of 10 baht/share, and other 36,000,000 shares are paid-up capital at 2.91 baht/share)	RENE	100.0	Holding Company
18.1) Ta Pattana Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 5,555,560 baht / 555,556 shares (500,000 ordinary shares with a par value of 10 baht/share fully paid up and 55,556 preferred shares with a par value of 10 baht/share)	TDPP	90.0	Share-holding by RENE Production and distribution of electricity and steam (Not start operation) In 2021, the companies have been selected to participate in the Community Power Plant Project for the Local Economy. (Pilot project)
18.2) Nong Hong Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 7,777,780 baht / 777,778 shares (700,000 ordinary shares with a par value of 10 baht/share fully paid up and 77,778 preferred shares with a par value of 10 baht/share)	NHCP	90.0	
18.3) Ta Kow Na Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 5,555,560 baht / 555,556 shares (500,000 ordinary shares with a par value of 10 baht/share fully paid up and 55,556 preferred shares with a par value of 10 baht/share)	TKNP	90.0	

18.4) Ta Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 7,777,780 baht / 777,778 shares (700,000 ordinary shares with a par value of 10 baht/share fully paid up and 77,778 preferred shares with a par value of 10 baht/share)	TCP	90.0	
19) Renewable Energy Siam Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up Capital 152,500,000 Baht / 25,000,000 shares (12,000,000 shares are fully paid-up capitals at a par value of 10 baht/share, and other 13,000,000 shares are paid-up capital at 2.50 baht/share)	RESM	100.0	Holding Company
19.1) Khun Tan Rung Rueang Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 7,777,780 baht / 777,778 shares (700,000 ordinary shares with a par value of 10 baht/share fully paid up and 77,778 preferred shares with a par value of 10 baht/share)	KTRP	90.0	Share-holding by RESM Production and distribution of electricity and steam (Not start operation) In 2021, the companies have been selected to participate in the Community Power Plant Project for the Local Economy. (Pilot project)
19.2) Kamphaeng Phet Kow Klai Community Power Plant Co., Ltd. Head Office Location 140/6 ITF Tower Fl.7 Silom Rd., Suriyawong, Bang Rak, Bangkok 10500 Paid-up capital 7,777,780 baht / 777,778 shares (700,000 ordinary shares with a par value of 10 baht/share fully paid up and 77,778 preferred shares with a par value of 10 baht/share)	KPKKC	90.0	

* Indirect subsidiaries with significant business activities, investments, asset holdings or business contracts

Report on the utilization of the increased capital from the initial public offering (IPO)

The Company would like to report the proceeds utilization as of December 31, 2022 as follows

Unit: Million Baht

Objectives	Proceeds Utilization Plan (Estimated Amount)	Actual Proceeds Utilization Nov 2019–Dec 2022	Remaining Unutilized Amount as of Dec 31, 2022
1. To fund the capital expenditures of projects under development i.e., 4 SPP Hybrid power plants and 1 MSW power plant (Krabi).	195 - 1,440	619	0
2. To fund the capital expenditures of future projects.	1,639 - 2,515	2,033	0
3. To repay debenture and/or loans from financial institutions and/or other liabilities of the Company and/or subsidiaries.	1,450 - 1,685	1,685	0
4. To fund other investments besides the projects as stated in Objective No. 1 and No. 2 such as investments to improve operational and production efficiency of existing power plants, and to be used as working capital of the Company and subsidiaries.	0 - 100	58	0
Total	4,395	4,395	0

The obligations that the company makes in the statement

Comply with the criteria applicable to listed companies and public limited companies with duties under Section 56 of the Securities and Exchange Act.

1.2 Nature of Business

Revenue Structure

The core business of ACE Group is electricity and steam generation and sale together with other supporting or related businesses. The main sources of revenue of ACE Group are selling electricity to PEA, EGAT and industrial users, providing waste disposal service by converting waste to energy, and selling steam to industrial users, etc.

Revenue Structure for the year ended 31 December 2020, 2021 and 2022 presented below.

Revenue	For year ended 31 December					
	2020		2021		2022	
	MB	%	MB	%	MB	%
Revenue from electricity sale						
Biomass powerplant ¹	2,887.7	47.84	3,261.7	56.83	3,350.8	48.33
Natural gas power plant	5.1	0.08	5.0	0.09	3.4	0.05
Waste-to-energy power plant	233.8	3.87	431.7	7.52	447.5	6.45
Solar power plant	11.4	0.19	17.8	0.31	20.0	0.29
Revenue from Power Purchase Agreement ²						
Revenue from financial Lease	401.2	6.65	411.0	7.16	414.9	5.98
Service Revenue	1,394.90	23.11	1,540.8	26.84	2,620.7	37.80
Revenue from waste disposal service	40.26	0.67	50.5	0.88	55.7	0.80
Revenue from steam sale	13.24	0.22	8.4	0.15	4.0	0.06
Revenue from construction Concession Agreement ³	870.5	14.42	-	-	-	-
Other revenues ⁴	178.6	2.96	12.8	0.22	16.9	0.24
Total Revenue	6,036.70	100.00	5,739.7	100.00	6,933.9	100.00

¹ Revenue from selling electricity to PEA from the Company's Biomass Power Plant Projects such as ACP1 Project, ACP2 Project, ACP3 Project, ACP4 Project, ALCP1 Project, ALCP2 Project, AAPP1 Project, AAPP2 Project, AAP1 Project and ABA1 Project. Which ACP 4 Project commenced commercial operations (COD) in November 2021.

This excluded Revenues that ACE Group may receive from requesting to change the Power Purchase Agreement (PPA) from the original ("Adder") basis with lower tariff to "Feed-in Tariff" basis ("FIT") with higher rate since January 24, 2015. ACE Group believed that they were qualified to receive the rights that the National Energy Commission (NEC) announced in 2015. However, PEA did not change the PPA until March 10, 2016 when NEC made a new announcement. Therefore, ACE Group filed a legal case against NEC, NCE and PEA for compensation of 622,150,282.54 baht and for damages of 3,901,248,000 baht if those parties could not amend the PPA to the "FIT" tariff. The case is still under consideration of the Central Administration Court.

² Revenue under Power Purchase Agreement (PPA) with EGAT from ACE Group Natural Gas Power Plant, AAA1, which commenced commercial operation in February 2017. Revenues under the PPA is the Revenues recognized under Thai Financial Reporting Standard #4, whether the agreement had financial lease (TFRIC4). Some parts of revenues are recognized as Revenue from finance lease while the remaining are service revenues.

³ Revenue recognition under ACE Group's Municipality Solid Waste Power Plant Project indicated that ACE Group, as an operator, constructed the infrastructure under a service concession. ACE Group would realize the revenue and construction costs on a percentage of completion basis under a fair value of the financial and intangible assets.

⁴ Revenue included interest income, insurance claim income, rental income, salvage sales income.

Overview of business and production line

For the year ended December 31, 2021 the Company indirectly owns 22 projects which have already commenced commercial operation, its owned subsidiaries. The total installed capacity is 257.57 MW and they can be categorized into 4 types by the fuel used for generation, which are:

- 1) **Biomass Power Plant:** There are 13 projects with total installed capacity of 125.90 MW, selling the electricity to PEA under the Power Purchase Agreement (PPA) of 15 – 16 years. (At the end of contract, the agreement may be considered for extension to 20 years.)⁵ and 1 project under 20 years PPA.
- 2) **Natural Gas Power Plant:** There is 1 project with total installed capacity of 114.35 MW, selling the electricity to EGAT under the Power Purchase Agreement (PPA) with the term of 25 years.
- 3) **Municipality Solid Waste-to-Energy Power Plant:** There are 2 projects with total installed capacity of 12.0 MW, selling the electricity to PEA under the Power Purchase Agreement (PPA) with the term of 5 years, starting from the commercial operation date and automatically renewed for 5 years at a time and according to the Power Purchase Agreement (PPA), term of 20 years.
- 4) **Solar Energy Power Plant:** There are 6 projects with total installed capacity of 5.32 MW, selling the electricity to private customers under the Private Power Purchase Agreement (Private PPA) with the term of 25 years.

The Group also has 24 power plant projects under development with a total installed capacity of 171.80 megawatts, divided into:

- 1) **Power Plant Projects under the SPP Hybrid Firm Project 2017.** There are 4 projects with a total installed capacity of 93.0 megawatts. All 4 projects have already received approval from the Environmental Impact Assessment (EIA) report. The Klong Khlung SPP project has signed a power purchase agreement with EGAT. On January 6, 2021, SPP Nabon 1 and SPP Nabon 2 signed a power purchase agreement with EGAT on March 19, 2021. At present, it is in the process of requesting for an extension of the SCOD date from relevant agencies. Ask for an extension of the contract signing date and the SCOD date from the relevant agencies.
- 2) **Municipality Solid Waste-to-Energy Power Plant Project.** There are 2 projects pending the signing of Power Purchase Agreements (PPA), with a total installed capacity of 19.8 MW.
- 3) **Biogas Power Plant Project.** There are 18 projects pending the signing of Power Purchase Agreements (PPA) with a total installed capacity of 59.0 MW.

⁵ Previously, the biomass power plant project of the Company's group Sales of electricity to PEA under a Power Purchase Agreement (PPA) with a purchase price increase ("Adder") for a very small power producer ("VSPP") from renewable energy, which has a contract term of 5 years starting from the date of signing the contract and automatically continuing for 5 years each time. Subsequently, the Group of Companies signed an agreement to amend the power purchase agreement to change from Adder system to Feed-in Tariff type ("FIT") The FIT power purchase agreement has a contract term of 20 years, reduced by a period as specified in the Announcement of the Energy Regulatory Commission regarding Purchasing electricity from renewable energy (Biomass-based power generation projects) during the transition from Adder to Feed-in Tariff (FIT) B.E. 2559 (2016), the announcement stated that after the expiration of the contract The project may be considered for renewal of the contract for a further reduced period, and will have to consider the new electricity tariff, taking into account the interests of the public as important

In addition, the Group of Companies has a project that is in the process of negotiating the return of the power purchase agreement. A total of 9 projects with an installed capacity of 89.10 megawatts, consisting of

- 1) **Biomass power plant projects** that have already received approval from Thai Arbitration Institute that PEA shall return the Power Purchase Agreement (PPA) in the form of Feed-in Tariff ("FiT") and extend the SCOD for the project owner that PEA agrees to comply with the Arbitration approval. At present, 8 projects with an installed capacity of 79.2 megawatts are still in the process of consideration by the central administrative court.
- 2) **Biomass power plant project** that is pending the reactivation of the Power Purchase Agreement (PPA). The current status is the under the consideration by Supreme Administrative Court, 1 project with installed capacity of 9.9 MW.

Apart from electricity generation and sale, the Group also sells the steam which is the byproduct from the production process to industrial users in the same area as the power plant through the pipe connecting directly to the customers. Currently, there are steam selling agreements with industrial users up to 127,800 tons per year.

Table for the summary of ACE Group's power plants that are already achieved the COD

Power Plant	By	Installed Capacity (MW)	PPA ⁶ (MW)	Tariff	COD	PPA Expiration Date ⁷
Biomass						
Ban Bueng Power Plant Project ("ACP1")	ACP	9.90	PEA: 8.00 IU: 0.46	FiT + FiT Premium	24 April 2012	23 July 2028
Phon Thong Power Plant Project ("ACP2")	ACP	9.90	PEA: 8.00 IU: 0.54	FiT + FiT Premium	4 June 2013	3 June 2029
Bo Ploy Power Plant Project ("ACP3")	ACP	9.90	PEA: 8.00	FiT + FiT Premium	16 August 2017	15 December 2031
Si Chiang Mai Power Plant Project ("ALCP1")	ALCP	9.90	PEA: 8.00	FiT + FiT Premium	26 December 2013	25 December 2029
Sirindhorn Power Plant Project ("ALCP2")	ALCP	9.90	PEA: 8.00	FiT + FiT Premium	14 August 2015	13 December 2030
Ta Nee Power Plant Project ("AAPP1")	AAPP	9.90	PEA: 8.00 IU: 0.46	FiT + FiT Premium	30 October 2012	29 January 2029
Chok Chai Power Plant Project ("AAPP2")	AAPP	9.90	PEA: 8.00 IU: 0.86	FiT + FiT Premium	16 January 2013	15 April 2029
Nam Phong Power Plant Project ("AAP1")	AAP	9.90	PEA: 8.00 IU: 0.76	FiT + FiT Premium	2 May 2012	1 August 2028
Thoen Power Plant Project ("ABA1")	ABA	9.90	PEA: 8.00	FiT + FiT Premium	9 July 2014	8 March 2030
Mueng Buriram Power Plant Project ("ACES1")	ACES	7.50	PEA: 6.50	FiT ⁸	24 January 2006	15 January 2025
Don Mon Power Plant Project ("ABE1")	ABE	9.50	PEA: 8.00	FiT	6 February 2008	30 October 2025
Mueng Korat Power Plant Project ("AAE1")	AAE	9.90	PEA: 8.00	FiT	11 October 2011	10 May 2028

⁶ According to the power purchase agreements made with each type of customers, namely PEA, EGAT and IU.

⁷ According to the announcement of the Energy Regulatory Commission regarding Purchasing electricity from renewable energy (Biomass-based power generation projects) during the transition from Adder to Feed-in Tariff (FiT) The parties can negotiate to extend the contract for a further period of time. However, the Group is in the process of filing a lawsuit against relevant agencies for amendments to the power purchase agreement to receive FiT privileges according to the FiT announcement of 2015, which The contract has a term of 20 years from the COD date, which is currently under consideration by the Administrative Court.

⁸ There has been a change of power purchase agreement form Ft system to FiT system, effective on June 1, 2021.

Power Plant	By	Installed Capacity (MW)	PPA ⁶ (MW)	Tariff	COD	PPA Expiration Date ⁷
Khlong Khlung Power Plant Project ("ACP4")	ACP	9.90	PEA.: 8.00	FiT + FiT Premium	28 November 2021	27 November 2041
Natural Gas						
Koh Khanun SPP project ("AAA1")	AAA	114.35	EGAT: 90.00 IU: 2.00	Capacity Charge + Energy Charge + Fuel Saving	10 February 2017	9 February 2042
MSW						
MSW Khon Kaen Power Plant Project ("ALCP3")	ALCP	6.00	PEA: 4.50	Whole sale price of EGAT + Average Ft for whole sale + Adder	29 November 2016	The term of the agreement is 5 years from the execution date and continue for 5 years automatically ⁹
MSW Krabi Power Plant Project ("ALCP6")	ALCP	6.00	PEA: 4.40	FiT + FiT Premium	28 December 2020	31 Dec 2039
Solar						
Solar Rooftop 1 Project ("ACE SOLAR 3")	ACE SOLAR	1.00	IU: 1.00	Discount rate from PEA price	20 November 2018	19 November 2043
Solar Rooftop 1 Project ("ACE SOLAR 3") (Extension)	ACE SOLAR	1.00	IU: 1.00	Discount rate from PEA price	28 September 2019	27 September 2044
Solar Rooftop 2 Project ("ACE SOLAR 4")	ACE SOLAR	0.73	IU: 0.73	Discount rate from PEA price	22 February 2019	21 February 2044
Solar rooftop 3 Project ("ACE SOLAR 5")	ACE SOLAR	0.83	IU: 0.83	Discount rate from PEA price	22 May 2020	21 May 2045
Solar Rooftop Project ("ACE SOLAR 6")	ACE SOLAR	0.24	IU: 0.24	Discount rate from PEA price	25 February 2021	24 February 2046
Solar Floating Project ("ACE SOLAR 7")	ACE SOLAR	1.52	IU: 1.52	Discount rate from PEA price	31 March 2021	30 March 2046
Total		257.57	PEA & EGAT:201.40 IU:10.40			

• Summary of the Group's power plant project under development

Power Plant	By	Type	Installed Capacity (MW)	PPA (MW)	Tariff	SCOD	PPA Expiration Date	Remark
Khlong Khlung SPP Power Plant Project ("BPP3")	BPP	Biomass / Solar	20.00	EGAT: 13.31	FiT	Within 2023	20 years after COD	PPA signed with EGAT, pending for SCOD extension
Nabon 2 SPP Power Plant Project ("BPP2")	BPP	Biomass	25.00	EGAT: 21.50	FiT	To be determined	20 years after COD	
Nabon 1 SPP Power Plant Project ("ACE SOLAR 1")	ACE SOLAR	Biomass	25.00	EGAT: 21.50	FiT	To be determined	20 years after COD	
Ranong SPP Power Plant Project ("ACE SOLAR 2")	ACE SOLAR	Biomass	23.00	EGAT: 20.00	FiT	To be determined	20 years after COD	
Chiang Wang MSW Power Plant Project ("NCE1")	NCE	MSW	9.9	PEA: 8.00	FiT + FiT Premium	Within 5 years after received Construction permission	20 years after COD	pending for PPA and SCOD extension
Chok Chai MSW Power Plant Project ("ABP1")	ABP	MSW	9.9	PEA: 8.00	FiT + FiT Premium	Within 5 years after received Construction permission	20 years after COD	Pending for PPA

⁸ Under the building construction contract Give ownership to Khon Kaen Municipality dated August 18, 2011. Buildings and machinery of the project will be owned by Khon Kaen Municipality on September 30, 2034.

Power Plant	By	Type	Installed Capacity (MW)	PPA (MW)	Tariff	SCOD	PPA Expiration Date	Remark
Chom Bueng Rung Rueang Community Power Plant Project ("CBRP1")	CBRP	Biogas	3.5	PEA: 3.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Rang Bua Kow Na Community Power Plant Project ("RBNP1")	RBNP	Biogas	2.5	PEA: 2.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Khanu Waralaksaburi Community Power Plant Project ("WLCPP1")	WLCPP	Biogas	3.5	PEA: 3.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Kamphaeng Phet Development Community Power Plant Project ("KAMD1")	KAMD	Biogas	3.5	PEA: 3.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Kamphaeng Phet Kow Klai Community Power Plant Project ("KPKKC1")	KPKKC	Biogas	3.5	PEA: 3.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Nong Hong Community Power Plant Project ("NHCP1")	NHCP	Biogas	3.5	PEA: 3.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Sao Deaw Community Power Plant Project ("BURC1")	BURC	Biogas	3.5	PEA: 3.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Kamphaeng Phet Community Power Plant Project ("KACPP1")	KACPP	Biogas	3.5	PEA: 3.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Khlung Khlung Development Community Power Plant Project ("KHLCP1")	KHLCP	Biogas	3.5	PEA: 3.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Khun Tan Community Power Plant Project ("KTTP1")	KTTP	Biogas	3.5	PEA: 3.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Khun Tan Pattana Community Power Plant Project ("KTDP1")	KTDP	Biogas	3.5	PEA: 3.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Khun Tan Rung Rueang Community Power Plant Project ("KTRP1")	KTRP	Biogas	3.5	PEA: 3.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Khun Tan Kow Na Community Power Plant Project ("KTNP1")	KTNP	Biogas	3.5	PEA: 3.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Khun Tan Ruem Chai Community Power Plant Project ("KTRC1")	KTRC	Biogas	3.5	PEA: 3.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Ta Community Power Plant Project ("TCPP1")	TCPP	Biogas	3.5	PEA: 3.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Ta Pattana Community Power Plant Project ("TDPP1")	TDPP	Biogas	2.5	PEA: 2.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Ta Rung Rueang Community Power Plant Project ("TRRP1")	TRRP	Biogas	2.5	PEA: 2.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Ta Kow Na Community Power Plant Project ("TKNP1")	TKNP	Biogas	2.5	PEA: 2.00	FIT	Within 36 months after PPA signed	20 years after COD	Pending for PPA
Total			171.80	PEA.: 93.00 EGAT: 78.80				Pending for PPA

- Summary of the Group's power plant project in the process of requesting the return of the PPA

Power Plant	By	Type	Installed Capacity (MW)	PPA (MW)	Tariff	SCOD	PPA Expiration Date	Remark
Song Phi Nong Power Plant Project ("ACP5")	ACP	Biomass	9.90	PEA: 8.00	FIT	N/A	15 Year 4 month after COD ¹⁰	Received an award from the arbitral tribunal for PEA to return the Power Purchase Agreement (PPA) in the form of Feed-in Tariff ("FIT") and extend the SCOD date to the project owner, which PEA agreed to comply with verdict. Currently, the 8 projects still in the process of consideration by the Central Administrative Court.
Bang Lane Power Plant Project ("ACP6")	ACP	Biomass	9.90	PEA: 8.00	FIT	N/A		
Khanu Worakabsaburi Power Plant Project ("ACP7")	ACP	Biomass	9.90	PEA: 8.00	FIT	N/A		
Ban Bueng 2 Power Plant Project ("ALCP5")	ALCP	Biomass	9.90	PEA: 8.00	FIT	N/A		
Chok Chai 2 Power Plant Project ("AAPP3")	AAPP	Biomass	9.90	PEA: 8.00	FIT	N/A		
Senangkhanikhom Power Plant Project ("AFT1")	AFT	Biomass	9.90	PEA: 8.00	FIT	N/A		
Khok Krteam Power Plant Project ("BPP1")	BPP	Biomass	9.90	PEA: 8.00	FIT	N/A		
Nadee Power Plant Project ("PSPR1")	PSPR	Biomass	9.90	PEA: 8.00	FIT	N/A	20 Year after COD	The dispute is under consideration by the Supreme Administrative Court.
Sri Saket Power Plant Project ("ALCP4")	ALCP	Biomass	9.90	PEA: 8.00	FIT	N/A		
Total			89.10	PEA.: 72.00				

The power plant projects pending the request for the power purchase agreement return are the power plants that are pending the reactivation of Power Purchase Agreement (PPA) that are cancelled since the Group cannot achieved synchronization within SCOD according to the PPA due to the force majeure which is not the fault of the Group.

¹⁰ The arbitral tribunal decided to return the contract in the form of Feed-in Tariff (FIT) B.E. 2559, as the Company had previously submitted an application to change the contract with PEA in accordance with the Feed-in Tariff (FIT) B.E. 2559, which is the final Feed-in Tariff (FIT) announcement, but since the company previously filed for a contract replacement in the 2015 Feed-in Tariff (FIT) announcement, which was also the first Feed-in Tariff (FIT) announcement. In addition, the arbitral tribunal decided that PEA terminated the contract without contravention of the contract and the law. The Company shall be subject to a change of contract in accordance with the Feed-in Tariff (FIT) Notification B.E. 2558, as the request has been submitted in accordance with this Notification. Amend the original arbitration to return the power purchase agreement according to the FIT announcement of the year 2558

Product Information

Production and distribution of electricity and steam

As of December 31, 2022, the Company has 22 commercially operating power plants (COD) projects through indirect holdings in subsidiaries. The total installed capacity is 257.57 megawatts, which can be divided into 4 types of projects according to the type of fuel used in production:

Biomass Power Plant

(1) Ban Bueng Power Plant Project (“ACP1”)

Ban Bueng Power Plant Project (“ACP1”) is the Biomass VSPP project using steam turbine system to drive the generator under the operation of Advance Clean Power Co., Ltd. (“ACP”) which is an indirect subsidiary of the Company. ACP1 locates at Ban Bueng District, Chonburi Province on the land area 146-0-55 Rai, with installed capacity of 9.9 MW. ACP1 has achieved Commercial Operation Date (COD) on 24 April 2012.



Summary of Performance	For year ended 31 December		
	2020	2021	2022
Ban Bueng Power Plant Project			
Number of operation day (days)	346	350	347
Availability Factor (percentage)	94.82	95.95	95.03
Planned Outage Factor (percentage)	5.18	4.05	4.97
Net Energy Generation (MW-hour)	75,485.48	76,598.46	75,648.62
Capacity Utilization (percentage)	91.80	92.05	91.79



(2) Phon Thong Power Plant Project (“ACP2”)

Phon Thong Power Plant Project (“ACP2”) is the Biomass VSPP project using steam turbine system to drive the generator under the operation of ACP which is an indirect subsidiary of the Company. ACP2 locates at Phon Thong District, Roi Ed Province on the land area 81-2-55 Rai, with installed capacity of 9.9 MW. ACP2 has achieved Commercial Operation Date (COD) on 4 June 2013.

Summary of Performance	For year ended 31 December		
	2020	2021	2022
Phon Thong Power Plant Project			
Number of operation day (days)	342	352	347
Availability Factor (percentage)	93.66	96.55	95.17
Planned Outage Factor (percentage)	6.34	3.45	4.83
Net Energy Generation (MW-hour)	73,184.61	75,971.55	74,494.77
Capacity Utilization (percentage)	90.10	90.73	90.26

(3) Bo Ploy Power Plant Project (“ACP3”)

Bo Ploy Power Plant Project (“ACP3”) is the Biomass VSPP project using steam turbine system to drive the generator under the operation of ACP which is an indirect subsidiary of the Company. ACP3 locates at Bo Ploy District, Kanchanaburi Province, on the land area 120-1-50 Rai, with installed capacity of 9.9 MW. ACP3 has achieved Commercial Operation Date (COD) on 16 August 2017.



Summary of Performance	For year ended 31 December		
	2020	2021	2022
Bo Ploy Power Plant Project			
Number of operation day (days)	352	344	348
Availability Factor (percentage)	96.48	94.34	95.42
Planned Outage Factor (percentage)	3.52	5.66	4.58
Net Energy Generation (MW-hour)	74,752.37	73,443.78	73,769.36
Capacity Utilization (percentage)	89.34	89.77	89.14



(4) Si Chiang Mai Power Plant Project (“ALCP1”)

Si Chiang Mai Power Plant Project (“ALCP1”) is the Biomass VSPP project using steam turbine system to drive the generator under the operation of Alliance Clean Power Co., Ltd. (“ALCP”) which is an indirect subsidiary of the Company. ALCP1 locates at Si Chiang Mai District, Nong Khai Province on the land area 301-2-86 Rai, with installed capacity 9.9 MW. ALCP1 has achieved Commercial Operation Date (COD) on 26 December 2013.

Summary of Performance	For year ended 31 December		
	2020	2021	2022
Si Chiang Mai Power Plant Project			
Number of operation day (days)	360	351	344
Availability Factor (percentage)	98.74	96.10	94.22
Planned Outage Factor (percentage)	1.26	3.90	5.78
Net Energy Generation (MW-hour)	76,812.86	74,934.26	72,878.62
Capacity Utilization (percentage)	89.70	89.91	89.19

(5) Sirindhorn Power Plant Project (“ALCP2”)

Sirindhorn Power Plant Project (“ALCP2”) is the Biomass VSPP project using steam turbine system to drive the generator under the operation of ALCP which is an indirect subsidiary of the Company. ALCP2 locates at Sirindhorn District, Ubon Ratchathani Province on the land area 114-3-48 Rai, with installed capacity of 9.9 MW. ALCP has achieved Commercial Operation Date (COD) on 14 August 2015.



Summary of Performance	For year ended 31 December		
	2020	2021	2022
Sirindhorn Power Plant Project			
Number of operation day (days)	357	350	352
Availability Factor (percentage)	97.83	95.91	96.34
Planned Outage Factor (percentage)	2.17	4.09	3.66
Net Energy Generation (MW-hour)	75,640.74	73,416.47	73,931.98
Capacity Utilization (percentage)	89.15	88.27	88.49



(6) Tanee Power Plant Project (“AAPP1”)

Tanee Power Plant Project (“AAPP1”) is the Biomass VSPP project using steam turbine system to drive the generator under the operation of Advance Agro Power Plant Co., Ltd. (“AAPP”) which is an indirect subsidiary of the Company. AAPP1 locates at Prasart District, Surin Province on the land area 123-0-33 Rai, with installed capacity of 9.9 MW. AAPP1 has achieved Commercial Operation Date (COD) on 30 October 2012.

Summary of Performance	For year ended 31 December		
	2020	2021	2022
Tanee Power Plant Project			
Number of operation day (days)	356	347	348
Availability Factor (percentage)	97.41	95.14	95.37
Planned Outage Factor (percentage)	2.59	4.86	4.63
Net Energy Generation (MW-hour)	75,426.38	74,248.08	73,663.35
Capacity Utilization (percentage)	89.29	89.99	89.07

(7) Chok Chai Power Plant Project (“AAPP2”)

Chok Chai Power Plant Project (“AAPP2”) is the Biomass VSPP project using steam turbine system to drive the generator under the operation of AAPP which is an indirect subsidiary of the Company. AAPP2 locates at Chok Chai District, Nakhon Ratchasima Province, on the land area 59-0-38.4 Rai, with installed capacity of 9.9 MW. AAPP2 has achieved Commercial Operation Date (COD) on 16 January 2013.



Summary of Performance	For year ended 31 December		
	2020	2021	2022
Chok Chai Power Plant Project			
Number of operation day (days)	347	351	346
Availability Factor (percentage)	95.10	96.27	94.68
Planned Outage Factor (percentage)	4.90	3.73	5.32
Net Energy Generation (MW-hour)	73,124.89	75,379.44	74,255.83
Capacity Utilization (percentage)	88.67	90.29	90.44



(8) Nam Phong Power Plant Project (“AAP1”)

Nam Phong Power Plant Project (“AAP1”) is the Biomass VSPP project using steam turbine system to drive the generator under the operation of Advance Asia Power Plant Co., Ltd. (“AAP”) which is an indirect subsidiary of the Company. AAP1 locates at Nam Phong District, Khon Kaen Province on the land area 52-2-15 Rai, with installed capacity of 9.9 MW. AAP1 has achieved Commercial Operation Date (COD) on 2 May 2012.

Summary of Performance	For year ended 31 December		
	2020	2021	2022
Nam Phong Power Plant Project			
Number of operation day (days)	352	350	350
Availability Factor (percentage)	96.04	95.80	95.80
Planned Outage Factor (percentage)	3.96	4.20	4.20
Net Energy Generation (MW-hour)	75,808.49	75,240.87	73,894.02
Capacity Utilization (percentage)	90.77	90.56	88.94

(9) Thoen Power Plant Project (“ABA1”)

Thoen Power Plant Project (“ABA1”) is the Biomass VSPP project using steam turbine system to drive the generator under the operation of Advance Bio Asia Co., Ltd. (“ABA”) which is an indirect subsidiary of the Company. ABA1 locates at Thoen District, Lampang Province on the land area 69-1-47.6 Rai, with installed capacity of 9.9 MW. ABA1 has achieved Commercial Operation Date (COD) on 9 July 2014.



Summary of Performance	For year ended 31 December		
	2020	2021	2022
Thoen Power Plant Project			
Number of operation day (days)	356	354	340
Availability Factor (percentage)	97.53	97.06	93.02
Planned Outage Factor (percentage)	2.47	2.94	6.98
Net Energy Generation (MW-hour)	75,020.90	75,354.91	71,925.08
Capacity Utilization (percentage)	88.69	89.53	89.16



(10) Mueang Buriram Power Plant Project (“ACES1”)

Mueang Buriram Power Plant Project (“ACES1”) is the Biomass VSPP project using steam turbine system to drive the generator under the operation of Absolute Clean Engineering and Service Co., Ltd. (“ACES”) which is an indirect subsidiary of the Company. ACES1 is located at Mueang District, Buri Ram Province, on land of 75-2-72 Rai, with installed capacity of 7.5 MW. ACES1 has achieved Commercial Operation Date (COD) on 24 January 2006.

Summary of Performance	For year ended 31 December		
	2020	2021	2022
Mueang Buriram Power Plant Project			
Number of operation day (days)	19	257	318
Availability Factor (percentage)	9.24	70.41	87.21
Planned Outage Factor (percentage)	90.76	29.59	12.79
Net Energy Generation (MW-hour)	1,996.22	43,970.39	53,710.09
Capacity Utilization (percentage)	68.35	95.06	93.74

(11) Don Mon Power Plant Project (“ABE1”)

Don Mon Power Plant Project (“ABE1”) is the Biomass VSPP project using steam turbine system to drive the generator under the operation of Advance Bio Energy Co., Ltd. (“ABE”) which is an indirect subsidiary of the Company. ABE1 is located at Don Mon Sub-District, Buri Ram Province, on land of 62-0-30 Rai, with installed capacity of 9.5 MW. ABE1 has achieved Commercial Operation Date (COD) on 6 February 2008.



Summary of Performance	For year ended 31 December		
	2020	2021	2022
Don Mon Power Plant Project			
Number of operation day (days)	4	185	86
Availability Factor (percentage)	2.67	50.72	23.47
Planned Outage Factor (percentage)	97.33	49.28	76.53
Net Energy Generation (MW-hour)	638.33	36,050.14	14,541.03
Capacity Utilization (percentage)	75.68	85.40	74.45



(12) Mueang Korat Power Plant Project (“AAE1”)

Mueang Korat Power Plant Project (“AAE1”) is the Biomass VSPP project using steam turbine system to drive the generator under the operation of Advance Asia Energy Co., Ltd. (“AAE”) which is an indirect subsidiary of the Company. AAE1 is located at Mueang Nakhon Ratchasima District, Nakhon Ratchasima Province, on land of 54 - 3 - 4 Rai, with installed capacity of 9.9 MW. AAE1 has achieved Commercial Operation Date (COD) on 11 October 2011.

Summary of Performance	For year ended 31 December		
	2020	2021	2022
<u>Mueang Korat Power Plant Project</u>			
Number of operation day (days)	122	332	247
Availability Factor (percentage)	91.56	90.86	67.73
Planned Outage Factor (percentage)	8.44	9.14	32.27
Net Energy Generation (MW-hour)	24,719.93	68,849.37	50,933.43
Capacity Utilization (percentage)	85.43	87.37	86.72

(13) Khlong Khlung Power Plant Project (“ACP4”)

Khlong Khlung Power Plant Project (“ACP4”) is the Biomass VSPP project using steam turbine system to drive the generator under the operation of Advance Clean Power Co., Ltd. (“ACP”) which is an indirect subsidiary of the Company. ACP4 is located at Khlong Khlung District, Kamphaengphet Province, on land of 222-1-64.2 Rai, with installed capacity of 9.9 MW. ACP4 has achieved Commercial Operation Date (COD) on 26 November 2021.



Summary of Performance	For year ended 31 December	
	2021	2022
<u>Khlong Khlung Power Plant Project</u>		
Number of operation day (days)	33	322
Availability Factor (percentage)	91.49	88.32
Planned Outage Factor (percentage)	8.51	11.68
Net Energy Generation (MW-hour)	6,947.47	70,988.42
Capacity Utilization (percentage)	88.78	92.68

Natural Gas Power Plant Project

(1) Koh Kanoon SPP project (“AAA1”)

Koh Kanoon SPP project (“AAA1”) is the natural gas SPP project using cogeneration system for power generation under the operation of Advance Agro Asia Co., Ltd. (“AAA”) which is an indirect subsidiary of the Company. AAA1 locates at Phanom Sarakhram District, Chachoengsao Province, on the land area 194-2-77 Rai, with installed capacity of 114.35 MW. AAA1 has achieved Commercial Operation Date (COD) on 10 February 2017.

For the operation and management of AAA1 project, AAA as the project owner has entered into the natural gas agreement with PTT Public Company Limited (“PTT”) dated 1 October 2012. The term of commercial gas usage is 25 years from the Commercial Operation Date (COD) which will end on 9 February 2042.



Summary of Performance	For year ended 31 December		
	2020	2021	2022
Koh Kanoon SPP project			
Number of operation day (days)	359	365	365
Availability Factor (percentage)	96.53	99.00	97.13
Planned Outage Factor (percentage)	3.42	1.00	2.87
Net Energy Generation (MW-hour)	634,231.38	653,505.98	636,280.29
Capacity Utilization (percentage)	82.35	82.89	80.71
Net Energy Sale (MW-hour)	605,792.21	624,585.53	607,748.70
Total steam sold (Tons)	18,372.98	13,645.18	7,444.71
Amount of the fuel used (million BTU)	4,749,232.00	4,826,510.00	4,701,339.00

Municipality Solid Waste-to-Energy Power Plant Project

(1) MSW Khon Kaen Power Plant Project (“ALCP3”)

MSW Khon Kaen Power Plant Project (“ALCP3”) is the Waste-to energy power plant project using Municipal Solid Waste (MSW) as fuel under the operation of ALCP which is an indirect subsidiary of the Company. ALCP3 locates at Non-Thon Sub-district, Mueang District, Khon Kaen Province in the area of Non-Thon Sub-District Municipality with installed capacity of 6.0 MW. ALCP has an obligation to construct the power plant according to the building construction contract, giving the ownership to Khon Kaen City Municipality dated 18 August 2011. The term is 20 years from the commencement date. After the contract is terminated, the building and machine of the project will become under the ownership of Khon Kaen Municipality.

ALCP3 sells electricity according to the proposed amount in the contract which is 4.5 MW to PEA under the Non-Firm Power Purchase Agreement (PPA), dated 24 October 2013. The term of the PPA is 5 years from the Commercial

Operation Date (COD) and automatically renewed for 5 years a time until the termination by a party. ALCP3 will receive the "Adder" of 3.5 baht per unit for 7 years from the Commercial Operation Date (COD).

Apart from that, ALCP3 has revenue from providing the municipal solid waste disposal service for Local Administration and private customers in the area. The Municipal Solid Wastes are used as the main fuel for electricity generation

Table for the summary of the performance by MSW Khon Kaen Power Plant Project

Summary of Performance	For year ended 31 December		
	2020	2021	2022
MSW Khon Kaen Power Plant Project			
Number of operation day (days)	344	351	331
Availability Factor (percentage)	94.22	96.18	90.80
Planned Outage Factor (percentage)	5.78	3.82	9.20
Net Energy Generation (MW - hour)	47,902.64	48,777.61	46,218.81
Capacity Utilization (percentage)	96.73	96.49	96.84
Net Energy Sale (MW - hour)	37,030.46	37,874.43	35,676.60



(2) Krabi MSW Power Plant Project ("ALCP6")

Krabi MSW Power Plant Project ("ALCP6") is fueled by Municipal Solid Waste (MSW). The project is under the operation of ALCP which is an indirect subsidiary of the Company. ALCP6 is situated at Sai Thai Sub-District, Mueng Krabi District, Krabi Province, in the area of Krabi Town Municipality. The total installed capacity amounts to 6.0 MW. ALCP is obliged to construct the power plant as per the building construction contract. ALCP transferred the project's ownership to Krabi Municipality on 22 February 2019, with 25 years term from the ownership transfer date. After the contract expires, the project's buildings and machinery will become under the ownership of Krabi Municipality.

ALCP6 sells electricity to PEA under the Non-Firm Power Purchase Agreement (PPA), signed on 17 May 2019, at the amount of 4.4 MW. The term of the agreement runs for no longer than 20 years starting from the date ALCP6 achieves Commercial Operation Date (COD) after 31 December 2019 and expires on 31 December 2039. The FiT Premium ALCP6 will receive is THB 0.7 per unit for 8 years from the date ALCP6 achieves Commercial Operation Date (COD).

ALCP6 also gains additional income from managing community waste, using it as the main fuel for the plant, for the local administrative organizations and several private clients in the area.

Table for the summary of the performance by MSW Krabi Power Plant Project

Summary of Performance	For the Period		
	28 – 31 December 2020	2021	2022
<u>MSW Krabi Power Plant Project</u>			
Number of operation day (days)	4	325	349
Availability Factor (percentage)	88.91	88.96	95.60
Planned Outage Factor (percentage)	11.09	11.04	4.40
Net Energy Generation (MW - hour)	464.32	43,946.14	45,648.65
Capacity Utilization (percentage)	90.67	93.99	90.84
Net Energy Sale (MW - hour)	373.07	33,919.84	34,771.59



Solar Power Plant Project

Solar Power Plant Project

Solar Power Plant Project is the project under the operation of ACE Solar Co., Ltd. ("ACE SOLAR"), the Group has 6 Solar power plant projects that has already commenced Commercial Operation, with contracted capacity of 5.32 MW. The Company has installed the power generating devices at the location of the purchaser to sell electricity throughout the term of the PPA. The details are as follows:



- Details of the Solar Rooftop Project are as follows:

Project	ACE SOLAR 3	ACE SOLAR 3 (Extension)	ACE SOLAR 4	ACE SOLAR 5	ACE SOLAR 6	ACE SOLAR 7
Project Name	Solar Rooftop 1	Solar Rooftop 1	Solar Rooftop 2	Solar Rooftop 3	Solar Rooftop 2	Solar Floating 1
Company that operates the project	ACE SOLAR	ACE SOLAR	ACE SOLAR	ACE SOLAR	ACE SOLAR	ACE SOLAR
Type of fuel	Solar	Solar	Solar	Solar	Solar	Solar
Project location • District • Province	Sriracha Chonburi	Sriracha Chonburi	Chok Chai Nakron Ratchasima	Mueang Samut Sakorn	Chok Chai Nakron Ratchasima	Chok Chai Nakron Ratchasima
Commercial Operation Date (COD) / Scheduled Commercial Operation Date (SCOD)	20 November 2018	28 September 2019	22 February 2019	22 May 2020	25 February 2021	31 March 2021
Installed Capacity (MW)	1.00	1.00	0.73	0.83	0.24	1.52
Contracted Capacity (MW)	1.00	1.00	0.73	0.83	0.24	1.52
Duration of power purchase from COD	25 Year	25 Year	25 Year	25 Year	25 Year	25 Year
Discount from tariff (%)	10.00	10.00	10.00	15.00	15.00	10.00

Permit for business operation and Promotional Investment Privileges

ACE Group is responsible for applying for the permit related to the development, construction and operation of the power plant of ACE Group. Previously, ACE Group has obtained all important permits for power plant operation, which are:

- 1) Approval of Environmental Impact Assessment Report (EIA) (not required for the case of the purchase from renewable energy VSPP)
- 2) Permit for Energy Industry Operation
- 3) Factory permit (Ror.Ngor.4)
- 4) Construction Permit (Aor.1) or Building construction notification form (Mor.39 Bi)
- 5) Permit for controlled power generation (PorKor. 2)
- 6) Building Certificate (Aor.6)
- 7) Investment Promotion Certificate

In this regard, all power plant projects that Commercial Operational Date (COD) of ACE Group are granted investment promotion from the Board of Investment of Thailand. Such Investment Promotion Certificate gives key benefits to ACE Group as follows:

- 1) Exemption from Corporate revenue tax for net profit obtained from the promoted business starting from the day that the project has revenue for 8 years.
- 2) Deduction of the loss of the year during the BOI period from the net profit occurred after corporate revenue tax exemption period, up to 5 years from the end of exemption period.
- 3) Reducing corporate revenue tax for net profit obtained from the promoted business at the rate of 50 percent of the normal rate for 5 years from the end of 8-year period.
- 4) Exemption from import duty for importing machine for production as approved by the Committee.

- 5) Exemption from including the dividend from the promoted business that is granted corporate income tax exemption to calculate the income tax, throughout the period of Corporate income tax exemption.

Apart from that, all Biomass power plant project and Waste-to-energy power plant Project is granted the additional privileges, which are:

- 1) Permission to deduct the cost of transportation, electricity and water supply 2 times of the cost for the period of 10 years starting from the day that the project has revenue.
- 2) Right to deduct investment in the installation or construction of facilities at the rate of 25% of the investment apart from the normal depreciation.
- 3) Reducing corporate income tax for net profit obtained from the promoted business at the rate of 50 percent of the normal rate for 5 years from the end of 8-year period.

In this regard, ACE Group must comply with the conditions stated in the Investment Promotion Certificate. For example, there must be Environmental Impact Measure and shall be implemented and the project must take action to obtain ISO 9000 or 14000 or other equivalent standard within 2 years from the business operation, etc. to get all the rights and benefits above.

Other business of the Group

Administrative Services

In 2017 the Company has entered into the management service agreement with the indirect subsidiaries. Under such contract, the Company provides management services under the policy, order and conditions set in the scope of work to support the operation of the indirect subsidiaries, such as accounting and financial management, human resources management, information technology management and legal management, etc. The Company is responsible for providing advices, coordinate and negotiate for the subsidiaries in the scope of work mentioned above.

Maintenance Services

As of December 31, 2022 the Company has the indirect investment of 100% of the share issued and paid up of PSMS which is a business established under ASCE on 3 May 2018 to operate the maintenance service providing for the power plant in ACE Group. In this regard, PSMS started to gain revenue from the business operation in the second quarter of 2018.

Research and Development

● Research and Development of Biomass Power Plant Project

Since the nature of the Group's business is electricity and steam production and distribution, its policy is to develop and improve every step of its working process to increase production efficiency in line with its strategy that adheres to the principle of "Research and Development Leads Production". The aim is to create in electricity generating innovations with the highest efficiency for humanity. Therefore, all departments have always been encouraged to conduct research and development to improve operational efficiency and reduce production costs. However, such expenses have been recognized as part of machinery and equipment maintenance cost, so they cannot be separately presented by items for operational efficiency improvement.

The Group has improved the operational efficiency of various power plants as follows:

- **Operational Efficiency Improvement of Biomass Power Plant Projects**

The Group regularly collects data essential for improving the operational efficiency of the power plants as big data and analyzes it before the improvement and development in various aspects. Examples of such improvement and development are as follows:

- 1) To develop a ready-made computer program for the management and control of all machines in the power plants for harmonious work, as well as adjusting the operation of all machines to be consistent throughout the factory. The aim is to control every machine using an automated system for maximum efficiency in the production and operation of the power plants. In addition, a Safety Instrumented System can control and resolve every mechanic issues automatically to ensure smooth operation of the power plants for a long period of time without accidents or damage to the machines. There is also a computer alert system when any part of the machines malfunctions to prepare for repair or maintenance before any damage occurs.
- 2) The Group is in the process of developing an Artificial Intelligence (AI) System to control computer systems and tune the machines while in operation using big data previously collected systematically. This is to achieve maximum efficiency in running electricity generators, prolong the service life of the machines, reduce the electricity generating costs, and care for the environment as best as possible.
- 3) Artificial Intelligence Cyber Command Center has been established at the Bangkok Office to direct, control, and supervise the production and operation of all power plants in The Group that are spread across the country in a Real-time Online fashion for maximum efficiency in electricity generation and production cost control.
- 4) A computer program to control and automatically stop the machine safely in the event of an abnormality or an accident has been developed, for the safety of the factory, employees, and nearby communities.
- 5) A system to feed fuel into the combustion zone has been developed, to prevent a major obstacle that had often caused the power plant to stop running. The system can help to feed the fuel into the combustion zone consistently and precisely to ensure smooth operation of the power plants throughout the year.
- 6) The form of the grate and the formula of the metal used to make the grate have been developed so that the grate can withstand high heat and has a longer service life.
- 7) The biomass fuel formula has been developed for more efficient combustion and lower production costs.
- 8) The Auto Load Control has been developed, which is a system used to set the sales volume and control the stability of the electricity sales more effectively in order to meet the specified targets and reduce the amount of fuel excessively used during the combustion, resulting in lower cost of electricity generation.
- 9) The Fuel Consumption Application has been created to record incoming, outgoing, and remaining fuel volumes of power plants, and report the quality of fuel used in the power generation process. This reduces the operator's workflow and ensures the accuracy of the information reported, making the formulation of the fuel mixture and fuel management more efficient with lower cost of electricity generation.

- 10) The backup power systems have been improved by using diesel generators in the power plants in order to solve issues caused by a power outage. The system can supply backup power to machinery equipment to keep it working and not severely damaged. Originally, when there was a power outage machinery equipment is often damaged. For example, used batteries tend to have a short lifespan if not properly maintained. Failure of the backup power system will cause serious damage to the turbines and they take several months to repair, which will seriously affect the Company's revenue. The two emergency power backup systems working in parallel will ensure that the Company Group's power plants will not be damaged due to such emergency.
- 11) The Belt Weighting Scale has been installed to assist in the process of counting the amount of fuel fed into the electricity production process. The fuel consumption data is more accurate as it is automatically recorded by the system, resulting in more effective analysis of data in order to plan, improve, or develop work processes. This also allows calculation of the power plant efficiency and the plant heat rate on an hourly basis, which contributes to more appropriate adjustment of the machine and consequently reduces the cost of electricity generation.
- 12) A program with the QR Code system to track materials, equipment, tools, and spare parts of the remaining machinery has been developed. The equipment, tools, and spare parts that are stored in the warehouse of the power plants have an individual QR Code so that the incoming, outgoing, storing, and counting of the remaining quantity of equipment can be recorded accurately in the system, which can minimize the working time and mistakes caused by the operators.
- 13) The Group is in the process of preparing a simulator of the Distributed Control System (DCS) for the operation of the power plants. The system will be used in personnel training and development to reduce the risks and damage that may occur from mistakes in the actual operation of the machine as a result of negligence or lack of experience of the machine operators. The system can reduce the risks that will occur due to employees' lack of knowledge, ability, experience, or skills to operate the machines.
- 14) Personnel training and development has been provided thoroughly in the organization throughout the year annually to increase the potential and professional expertise of the Company Group's human resources.
- 15) The using of palm bunch has been studied and developed. Palm bunch can be used as biomass fuel that is abundantly available in the market and cheap, but has high humidity of about 60 - 65% and contains compounds that cause corrosion in the boiler system. The plant can be used as fuel to generate electricity safely and effectively reduce the cost of fuel used to generate electricity.
- 16) A biomass fuel dehumidification process has been developed to increase the calorific value of the fuel before it is put into the combustion zone, and consequently save the fuel used to generate electricity.
- 17) Fuel storage facilities have been developed to allow the stored fuel to dehumidify itself faster and have higher calorific value before it is used to generate electricity.
- 18) The superheated steam transmission system has been developed to reduce the pressure loss and temperature of steam before it is transmitted from the boiler to the steam turbine, which can reduce the energy loss during the production process and therefore the cost of fuel used to generate electricity.

- 19) The furnace wall has been developed to reduce the radiation loss so that the heat from the combustion of fuel can be used to generate more electricity for more efficient power plants.
- 20) The amount of hot air emitted through the exhaust pipe has been reduced to minimize energy loss during the production process, which can save the fuel used and therefore reduce production costs.
- 21) The superheated steam system has been developed for efficient heat transfer and a longer service life. This will reduce the costs of electricity generation and power plant maintenance both in the short and long terms.
- 22) An anti-scaling system has been improved to prevent the formulation of scaling on steam turbine blades. The system can minimize power loss in steam turbines and extend the service life of the machine, as well as shortening the downtime for the power plants to maintain steam turbine machines, which directly affects the Company's revenue earning and profitability.
- 23) Lubricant cleaning systems and machines have been developed to increase the service life of lubricants and lubricant systems of turbines, which can therefore reduce production costs.
- 24) The furnace has been improved to prevent molten ashes from forming and then clogging the system in combustion zone, which causes the power plants to take several days of downtime to remove the molten ash scale from the combustion zone, directly affecting the Company's revenue earning and profitability.
- 25) The Soot Blower System has been developed to clean the outer surface of the boiler pipe thoroughly without damaging it. This helps to extend the service life of the boiler pipe and reduce the downtime caused by unplanned shutdowns of the machine.
- 26) The bottom ashes and fly ashes have been utilized to produce building materials, lightweight bricks, and soil improvement materials, which reduces the costs of ash disposal and increases additional revenue from selling ash-made products.
- 27) The boiler design has been developed to enhance steam generation efficiency, extend the boiler's service life, and reduce the costs of electricity generation.

- **Operational Efficiency Improvement of Natural Gas Power Plant Project**

The operational efficiency of the natural gas power plant projects has been improved in several aspects as follows:

- 1) A communication system has been implemented to keep track of performance, and an automatic electricity meter data recording system has been used to control, supervise, and evaluate the efficiency of the machines at all times in a real-time manner.
- 2) Real-time communication with customers has been established to adjust the generators in response to the customer demand in a timely manner, which will not cause danger nor damage to the power generating machinery.
- 3) The Computerized Maintenance Management System is used as a central database for Preventive Maintenance and Corrective Maintenance (PM/CM) which can accurately record the movement of spare parts and materials in the warehouse and therefore reduce the risk of having power-generating machines downtime due to shortage of spare parts.

- 4) Each employee will be trained to gain basic knowledge necessary to work in power plants before their actual work commences. The training curriculum is reviewed regularly.

- **Operational Efficiency Improvement of Waste-to-Energy Power Plant Projects**

The operational efficiency of the waste-to-energy power plant projects has been improved in several aspects as follows:

- 1) The combustion room has been developed to effectively incinerate various types of waste including waste with high humidity of 55% - 60%.
- 2) The boiler model has been developed to reduce the accumulation of fly ashes on the steam pipes, increase heat exchange efficiency, and reduce corrosion on the steam pipe wall.
- 3) The power plant buildings have been improved to prevent the spread of odor and save the construction budgets.
- 4) Waste collection ponds inside the project area have been improved to extract moisture from the waste faster, causing the waste to have a higher calorific value.
- 5) Treated leachate has been made reusable for the production process without having to discharge water outside the plants.
- 6) Bottom ashes have been used safely to make such materials as building materials, lightweight bricks, or paving bricks to save the disposal cost.
- 7) A computer system has been developed to control the machines in the power plants and prevent their operational malfunction and accidents during the operation of the machines.
- 8) A cold-water production system has been developed for the production process to save energy.

The Group has planned and continuously improved the operational efficiency of its various power plants, which can be seen through the increase of power generation units of each project and the gradually reduced cost of electricity generation.

The Group has an aim to reduce the costs of operation and maintenance (O&M) per unit of electricity generated by 15% to 25% within 2 to 3 years through improving the operational efficiency of the power plants according to the plans. For example, it has been outsourcing fuel management tasks to Goodwill Innovation and Engineering Company Limited (GIE) because of GIE's experience and expertise in heavy equipment management. The employment contract is based on the amount of work GIE can complete with a fixed unit price, making it easy to control the budget. PSMS subsidiary has also been founded to manage and maintain the machinery in all power plants of the Company Group, contributing to more efficient team management and better long-term work planning. Furthermore, Artificial Intelligence Cyber Command Center has been established to assist in the maintenance management of power plant machinery with an online system that can take orders immediately, which makes planning and troubleshooting faster and timelier, and limits damage in maintenance work. In addition, there has been a change in the purchasing related to the maintenance of the power plant machinery. The maintenance service used to be purchased separately for each power plant, but now all power plants with demand for such a service are included in a single purchase in order to increase the bargaining power with the suppliers for lower prices.

Market and Competition

Target group

The main power purchasers of the power plant project of ACE Group are PEA and EGAT. Under the current regulations and rules of business on power generation and sale, the entrepreneur must be obtained the right to sell electricity by entering into the Power Purchase Agreement (PPA) with related organization according to the structure of Thai power industry, which is PEA or MEA who is the electricity distributor of the country or EGAT who is the sole owner and controller of transmission system in the country.

With regard to seeking the industrial users, although nowadays such group of customers is not a big portion of revenue, ACE Group has a policy to expand the industrial users' base in the surrounding area of the power plant project of ACE Group by investing and developing network and power transmission line system in the area required by the customer, in order to generate power and transmit to such industrial users.

For the year ended December 31, 2022, all power plant projects that commenced commercial operation (not include Solar Rooftop Project) have the power/steam purchase agreement with the target groups, which are PEA, EGAT and industrial users, totaling to 252.25 MW. After deducting the power consumption inside the power plant project of about 17.28 MW, ACE Group will have surplus capacity of power/steam about 24.99 MW left for selling to the customer in additional. The details are shown in the table below:

Power Plant Project (Excluding Solar Projects)	Installed capacity (MW)	Contracted capacity for power/ steam (MW) ¹¹	Power consumption of the project (MW) ¹²	Surplus capacity (MW)
Ban Bueng Power Plant Project ("ACP1")	9.90	8.46	0.91	0.53
Phon Thong Power Plant Project ("ACP2")	9.90	8.54	0.87	0.49
Bo Ploy Power Plant Project ("ACP3")	9.90	8.00	0.87	1.03
Si Chiang Mai Power Plant Project ("ALCP1")	9.90	8.00	0.92	0.98
Sirindhorn Power Plant Project ("ALCP2")	9.90	8.00	0.73	1.17
Ta Nee Power Plant Project ("AAPP1")	9.90	8.46	0.87	0.57
Chok Chai Power Plant Project ("AAPP2")	9.90	8.86	0.89	0.15
Nam Phong Power Plant Project ("AAP1")	9.90	8.76	0.95	0.19
Thoen Power Plant Project ("ABA1")	9.90	8.00	0.87	1.03
Koh Khanun SPP project ("AAA1")	114.35	95.50	3.30	15.55
MSW Khon Kaen Power Plant Project ("ALCP3")	6.00	4.50	1.11	0.39
Mueang Buriram Power Plant Project ("ACES1")	7.50	6.50	0.75	0.25
Don Mon Power Plant Project ("ABE1")	9.50	8.00	1.13	0.37
Mueang Korat Power Plant Project ("AAE1")	9.90	8.00	0.84	1.06
MSW Krabi Power Plant Project ("ALCP6")	6.00	4.40	1.31	0.29
Klong Klung Power Plant Project ("ACP4")	9.90	8.00	0.96	0.94
Total	252.25	209.98	17.28	24.99

¹¹ The Amount of Electricity and Steam Sales under the Power Purchase Agreement with all types of customers: EGAT, PEA and Industrial Users, in megawatts.

¹² Calculate from actual amount

Selling Price

ACE Group has considered to set the electricity selling price separated by the type of power purchaser, which are: 1) The proposal to sell electricity to PEA and EGAT will be in accordance with the tariff structure set in the Power Purchase Agreement (PPA). If ACE Group proposes the price by oneself, for example in case of the bidding for the right to sell electricity, ACE Group will consider the selling price by analyzing the relevant factors and risks to assess the feasibility of the project and the expected return to correspond with the investment policy set out by the Board of Directors; and 2) For the proposal to sell electricity to industrial users, ACE Group will set the price by referring the tariff or setting the discount rate from the tariff of PEA or MEA as the case may be.

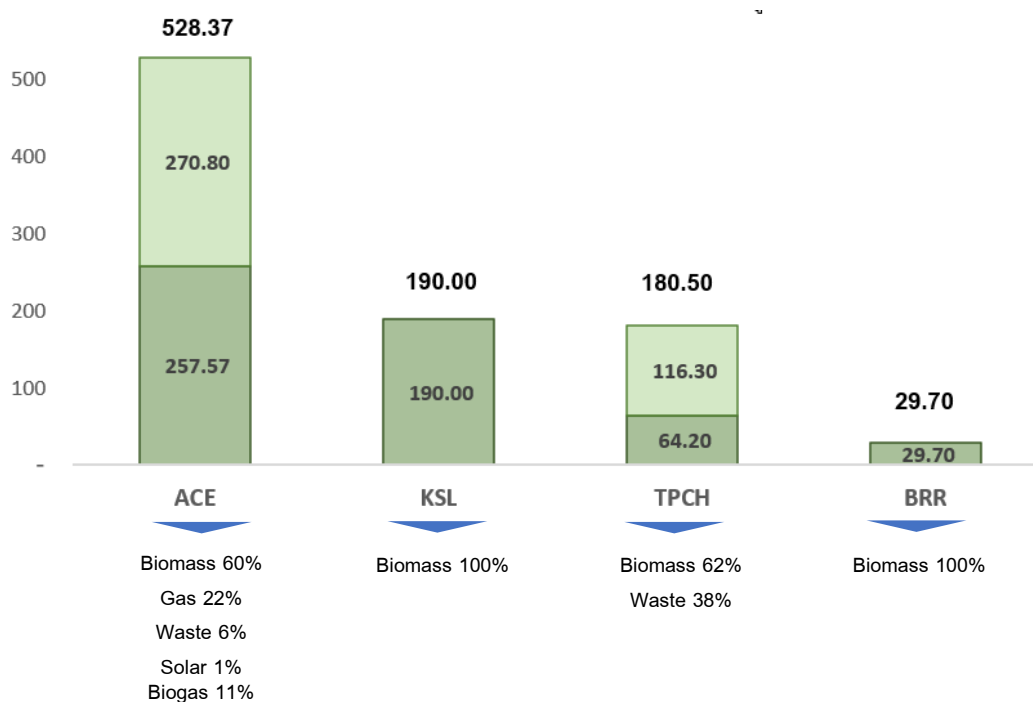
Market Conditions and competitions

Competition in renewable energy industry

Renewable energy industry under the type of Biomass power plant in the past is the persons who want to invest in such power plant business, especially VSPP Biomass power plant with installed capacity up to 9.9 MW can submit the document and project proposal to enter into the power purchase agreement with the electricity distribution authorities, which are PEA and MEA directly. PEA and MEA will consider the proposal of the project by considering from the readiness in various aspects, especially the qualification of the applicant which is the main factor of the consideration. In the past, there are many entrepreneurs who get the power purchase agreement from PEA and EGAT. The entrepreneurs are registered company and other juristic persons, including in many cases that the registered company has purchased the power plant project from other juristic person.

In this regard, the registered company that runs the renewable power generation and distribution business with the biomass power plant as the main type of power plant of the business can be summarized as follows:

Chart: the power generation capacity of producers and distributors of electricity from renewable energy.



Source: Data from 2021 Annual Report of each company

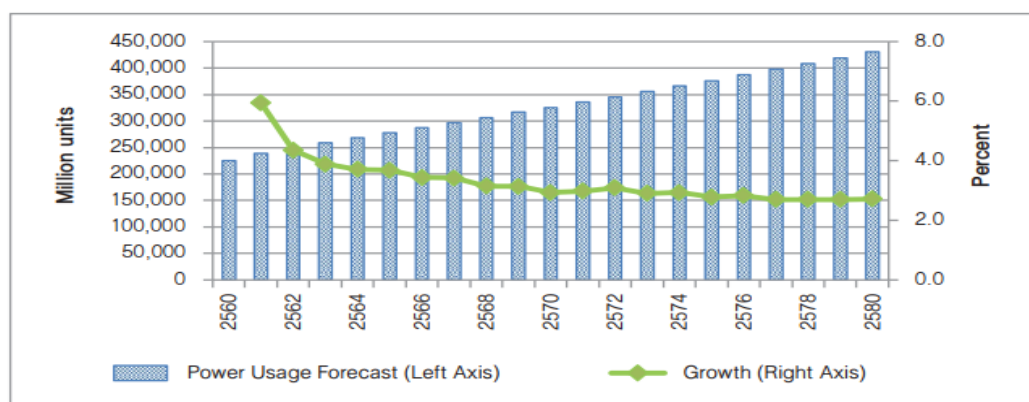
From the chart above, the biomass power plant entrepreneurs can be divided into 2 main groups, which are: 1) The entrepreneurs who use fuel that is the remaining from the main production process of oneself (Waste or By-Product), which are group of power plant of the sugar factory entrepreneurs, such as KSL or BRR, etc. who use one own raw material as the main fuel to generate electricity. The power generated will be mainly used in the factory of the main product. The remaining power will be sold to the factory, PEA and/or EGAT as the case may be; and 2) ACE Group of entrepreneurs that provides the agricultural waste from outside to be biomass fuel. The almost all produced power will be sold to PEA and EGAT. The entrepreneurs in this group are the Company and TPCH.

Trend of the power generation industry in Thailand

Power Development Plan 2018 Revision 1 (PDP2018 Rev.1) forecasts the power demand of the country to the same level as Power Development Plan 2018 (PDP2018) estimation, under the assumption from the estimation of the expansion of GDP average 3.8 percent per year and forecast the population birth rate -0.02% per year during 2017 – 2037 by Office of the National Economic and Social Development Council (“NESDC”).

In PDP2018 mentioned above, it states that between 2018 – 2037 the maximum power usage demand of the country and the amount of power usage of the country will increase at the accumulated average growth rate per year at 3.03 percent and 3.3 percent, respectively, from 34,102.0 MW and 225,114.0 million units in 2017 to 61,965.0 MW and 430,693.0 million units in 2037 respectively. The forecast is reduced in 2017 – 2027 as compared to PDP2015 and the forecast is increased as compared to the original plan in 2027– 2036.

Chart showing the forecast of Thailand’s power usage amount



Source: Power Development Plan 2018 Revision 1

Apart from PDP2018 Rev.1, Ministry of Energy also adjust the Alternative Energy Development Plan 2018 – 2037 or “AEDP2018” to support the power generation from the alternative raw materials available in the country. The development of potential to produce alternative energy using suitable technology to create the growth on good quality of life and environmentally friendly. The target of the energy purchase from renewable energy in 2037 is 18,696.0 MW.

The renewable power purchase plan according to AEDP2018 will correspond with the remaining potential of the country, which are solar energy, Biomass, biogas, hydro-floating solar, wind, and other renewable energy. The target of the purchase price is set at not more than Grid Parity to maintain the retail power price. The contracted capacity is as follows:

The Alternative Energy Development Plan 2018 Breakdown

Project	Unit	Year 2037
1. Solar	MW	8,740
2. Biomass	MW	2,780
3. Solar Floating	MW	2,725
4. Wind	MW	1,485
5. Biogas	MW	546
6. WTE-Industrial	MW	44
7. Small Hydro	MW	69
8. Project under government supportive policy		
8.1 WTE-Community Waste	MW	400
8.2 Biomass for 4 southernmost provinces	MW	120
8.3 Power Plant for Community (PPC)	MW	1,933
Total	MW	18,696

Source: Ministry of Energy

Moreover AEDP 2018 also support renewable power generation by the government by focusing social problems, which is Municipal Solid Waste issues, and the support on power generation from Biomass and biogas to use the agricultural waste, responding to the target to achieve local growth, resulting on stability, revenue distribution and provide job opportunity in the local area and maximize the benefit from local resources.

For important movements in the year 2022, in the meeting of the National Energy Policy Council (NEPC) No. 3/2022 (158th) on May 6, 2022 considered the agenda - Rate of purchase of electricity from renewable energy in the form of Feed-in-Tariff (FiT) for the year 2022 - 2030 and has resolved to approve the principle of electricity purchase from renewable energy and the electricity purchase rate from renewable energy in the form of FiT for the year 2022 - 2030 for the group without fuel costs. By assigning the Energy Regulatory Commission (ERC) to issue regulations and announcements for the purchase of electricity and supervise the selection process in the future. In this regard, the annual fuel quantity may be reviewed depending on the situation or the potential. appropriate or improve the conditions (except the purchase rate) by delegating to the Energy Policy Administration Committee for consideration.

The quantity of megawatts purchased and the Scheduled Commercial Operation Date (SCOD) has been determined according to the plan to increase the production of electricity from clean energy under the PDP2018 Rev.1 plan during the years 2021 - 2030 (additional adjustments). Which has been approved by the Energy Policy Administration Committee (Gor.Bor.Ngor.) at its meeting No. 8/2022 (46th) as follows:

SCOD	Contract Type	2024	2025	2026	2027	2028	2029	2030	Total
Biogas	Non-Firm			75	75	75	75	40	335
Wind	Non-Firm		250	250	250	250	250	250	1,500
Solar									
- Solar Farm + BESS	Partial-Firm	100	100	100	100	200	200	200	1,000
- Solar Farm	Non-Firm	190	290	258	440	490	310	390	2,368
Target		290	640	683	865	1,015	830	880	5,203

Procurement of products or services

Power plant project development before operation

ACE Group runs the business by investing in the power plant project which have to take action to obtain the right to sell electricity by participating in the bidding for electricity sale or by submitting the proposal to sell electricity according to the process of the relevant organization. Before taking action to obtain the right to sell electricity, ACE Group has carefully and cautiously ready by preparing information and assert the readiness in various aspects of the project to be invested. For example, the feasibility of the project, the readiness in terms of source of capital, technology, raw material, land and the permit obtained, etc. When the power plant project that has potential and meet the criteria of the Company is granted the right to sell electricity from the related organization, ACE Group will proceed with the development of power plant project further. The Power plant project development process can be summarized as follows:

Application for permit for power plant project

ACE Group must take action to obtain important permits for the energy company according to ERC notification on Categorization and duration of the permit and approval for energy business operation B.E. 2551 and regulations/notifications of ERC and/or the Government Agency in charge, which are:

Approval/Permit/Certificate	Related law	Government Agency in charge
Approval of Environmental Impact Assessment Report (EIA) (not required for the case of the power purchase from renewable VSPP)	The Enhancement and Conservation of the. National Environmental Quality Act, B.E. 2535	Office Of Natural Resources and Environmental Policy and Planning ("ONEP")
Permit for Energy Industry Operation	Energy Industry Operation Act B.E. 2550	The Office of the Energy Regulatory Commission ("ERC")
Factory permit (Ror. Ngor.4)	Factory Act B.E. 2535	ERC / Department of Industrial Works ("DIW")
Construction Permit (Aor.1) or Building construction notification form (Mor.39 Bi)	Building Control B.E. 2522 Industrial Estate Authority of Thailand Act B.E. 2522	ERC / Local Administrative Organization Industrial Estate Authority of Thailand
Permit for controlled power generation (PorKor. 2)	Energy Development and Promotion Act B.E. 2535	ERC / Department of the Energy Development and Promotion (DEDE)
Building Certificate (Aor.6)	Building Control B.E. 2522 Industrial Estate Authority of Thailand Act B.E. 2522	ERC / Local Administrative Organization IEAT
Investment Promotion Certificate	Investment Promotion Act B.E. 2520	The Office of the Board of Investment of Thailand

Power plant project construction

(1) Engagement of contractor for power plant construction

For the construction of the biomass power plant and Waste-to-energy power plant of ACE Group previously, ACE Group employed Advance Energy Development Co., Ltd. ("AED") which is the Company that related to the major shareholder to be the contractor for power plant construction of ACE Group for all the time. The procurement will be done mainly by price negotiation, however, to conduct the power plant construction in the future in organized and reduce the possibility of the conflict of interest, ACE Group has set the policy for engagement of

the EPC Contractor. ACE Group will try to avoid employing the related person which shall include AED to be the EPC Contractor at all cases, except when it is necessary and cannot be avoided and ACE Group has considered that it is reasonable and maximizes the benefits for the Company and the shareholders in overall. In this regard, it must comply with the criteria of the bidding process or EPC Contractor selection process as ACE Group use with the external parties and such item must be in accordance with the policy for transaction related to the Company and related laws. The beneficiary of such item cannot approve or vote for such matter.

(2) Technology selection

The power plant projects of ACE Group select the machine and equipment for production as sorted by type of project as follows:

Biomass power plant project

The Company has set the details for the standard and qualification of machine and equipment that meet the standard, efficient and has prolonged usage period, such as using the high-quality steel from Germany in all Boiler tube system or designing the machine in the factory by German engineer who is expertise and professional in designing machine to support various types of biomass fuel and support fuel with high humidity. In this regard, for biomass power plant of ACE Group that will be newly constructed in the future, regardless of being SPP Hybrid or VSPP, the Company has a plan to develop machine and production process that will increase the efficiency of the biomass power plant. For example, using the machine that can use steam at higher temperature and pressure in order to increase the efficiency according to the steam cycle, resulting in a higher electricity with less fuel use. At the same time, such production process has a higher investment value due to the requirement of material that is durable for higher pressure and temperature too

Natural gas power plant project

Natural gas power plants of ACE Group mainly use the technology from the USA and Japan.

Waste-to-energy power plant project

The Municipal Solid Waste in Thailand is not categorized from household. Therefore, there are various types of wastes mixed together, such as remaining from vegetables and fruits, or solid waste that are waste with high humidity and low heat rate, making them hard to burn. ACE Group, therefore, use the suitable technology together with the engineering design that is able to support the waste incineration with such qualification. The technology that the Company uses can deal with waste with humidity of 80 percent without being separated or dried, so the it saves the cost of waste management before bringing to the power plant.

Solar energy power plant project

Each Solar Rooftop project consists of solar panel installed on the roof, power inverter and transformer. The solar panel generates direct current power with low voltage when getting the sunlight at daytime and use Inverter to invert the direct current power with low voltage into the alternate current power with low voltage. Then the power generated my solar panel will be transformed by the transformer to increase the voltage to 22.0 kV. After that the power will be sold to the customers.

Power plant project during operation

Fuel material Procurement

(1) Biomass fuel

The Biomass fuel is a main fuel material for the production process of biomass power plant project. The biomass fuel refers to the remaining or waste from agriculture, such as the energy crops, barks, chopped fuelwood, husk, palm bunch, corn cob / corn husk, and wood chips, etc. They can be categorized from the source into 3 types, which are:

- 1) The biomass fuel collected from the agricultural product plant, such as husk from rice mill, bark from chopped wood plant, slab, wood chips and sawdust from sawmill and palm bunch from palm oil plant, etc.
- 2) The biomass fuel collected from the garden, farm, and rice field, such as rice straw, wood tip, root in the garden and corn husk from corn farm, etc.
- 3) The biomass fuel that is the energy crop that the agriculturists plant and deliver to the project, such as eucalyptus, plant in Acacia family, Napier Grass and energy crop in reed grass family such as Orlando, etc.

ACE Group has a policy to procure biomass fuel from various sources, which can be divided into 2 methods as follows:

- 1) Announcement to purchase the Biomass fuel widely given to the retail agriculturists. The fuel purchase division will negotiate for the price and condition according to the type of fuel, heat rate and humidity as specified by the company.
- 2) Contacting the agricultural product plant directly to negotiate to purchase the agricultural remains from the production process from the plant owner.

In this regard, the Group mainly uses 4 types of biomass fuel, which are:



Bark which is the remaining from the production process of chopped wood from fast growing plants, such as eucalyptus which is the bark obtained from peeling the bark from the wood piece.

Fuelwood which are various kinds of wood that are left from tree cutting from farm, garden or field. The fuelwood can be generally found.

Palm bunch which is remaining from palm oil extraction in the form of empty palm bunch, fiber and palm shell that can be used as fuel.

Rice husk which is the hard cover of rice grain remained from the production process of rice mill. The Group uses rice husk as fuel in Biomass power plant project.

Other fuels consist of corn husk/cob, sugar cane leaf/bagasse, potato rhizome, sawdust, wood chips, etc.



(2) Natural gas

Natural Gas power plant project of ACE Group has entered into the long-term natural gas purchase agreement with PTT Public Company Limited (“PTT”) who is the sole entrepreneur who can supply natural gas to the natural gas power plant project in the country. The contract term is equal to the term of the Power Purchase Agreement (PPA) with EGAT.

(3) Municipality Solid Waste

Municipal Solid Waste is the main raw material for power generation of Waste-to-energy plant Project of ACE Group. The Waste-to-energy plant Project of ACE Group has entered into the waste disposal service agreement with various organizations in the relevant area nearby. They can be categorized according to source of the waste as follows:

1) Aged waste disposal contract

1.1) At the landfill of the Khon Kaen Municipality where the project is situated. No servicing fee received. The project is expected to be completed by 28 September 2023.

1.2) At the solid waste landfill of Krabi Town Municipality where the project is situated. No servicing fee received. The project is expected to be completed by 21 February 2029.

2) Waste disposal contract, the Waste-to-energy plant Project of the Group has entered into with the municipality nearby and the private company, which the project receive the return in the form of servicing fee, for the period from 1 to 25 years as the case may be.

Apart from that, ACE Group also entered into the construction agreement and the solid waste management system with Krabi Municipality according to the agreement dated 22 February 2019, with the condition that the waste disposal must be done not less than the amount specified in the agreement. ACE Group is granted the right to operate the system management for 25 years from the contract signing date.

(4) Raw water

ACE Group needs to use raw water in the power generation process to produce steam for power generation and to cool down the temperature of the machine and equipment. When procuring the raw water, ACE Group will manage to prepare the storage area of all power plant project of ACE Group adequately for the water use of each project throughout the year, in order to reduce the risk of raw water shortage for power generation and reduce the cost for purchasing raw water or industrial water. Most of the raw water will be stored from natural rainfall or pumping from the source of water nearby in rainy season, as permitted by the related organization.

However, 1) the project has limitation in terms of the area that cannot store water in the project are, which is the waste-to-energy plant project of ACE Group in Khon Kaen. The project has to enter into raw water purchase contract with a seller who is the relevant person of the Company with the period of 10 years from the Commercial Operation Date (COD). Not less than 30 days before the contract termination date, if one of the parties does not send a letter to notify the termination to another party, it shall be considered that the parties agree that the contract shall be renewed for 1 year at a time. The waste-to-energy plant project shall pay the servicing fee to the seller on monthly basis at the rate specified in the contract and 2) Krabi Municipality Solid Waste Power Plant Project. ACE Group has entered into raw water Purchase Agreement with 1 vendor which is related to the Company. The agreement has an expiry date. The monthly service fee the project pays to the vendor is as specified in the agreement.

Assets Used in Business

Investment Policy in Subsidiaries, Associated Companies

The core business is the generation and distribution of electricity and steam from renewable energy and/or clean energy such as biomass fuel, natural gas, biogas, municipal solid waste and solar energy, etc., both domestically and internationally by using modern technology and efficient production processes, environmentally friendly and operates business with responsibility to communities and society. In addition, the Company has a policy to invest in related businesses or businesses that can enhance mutual benefits with the core business (Synergy).

In order to make the investment of the Company Subsidiaries and associates ("the Group"), which may be entirely self-investment or joint ventures with other investors, are in accordance with the goals and policies set by the Company through the process of analysis and consideration of investment decisions. in detail careful and careful, to ensure that such investments can create added value and maximum benefits to the company. Company's shareholders and all stakeholders, the Company therefore has established criteria for considering projects and/or activities in which the Group has invested as follows:

- 1) The Group will invest by taking into account the necessity and benefits of the Group of Companies. and shareholders.
- 2) The Group will invest in potential projects in line with the vision, mission, goals and business expansion plans of the Group.
- 3) The Group will invest in projects that have done a project feasibility study by analyzing various factors related, such as economic, social, political conditions, relevant laws Industry conditions and competition financial cost, construction cost, land cost and sufficiency of raw materials (fuel) etc. to assess the feasibility of investment and expected return on investment. In addition, a sensitivity analysis of various

factors is required. that may affect the feasibility of the project in order to find a way to prevent risks in advance.

- 4) The Group will invest in projects that are expected to generate a return on investment (Project IRR) at an appropriate level. It must not be less than the Project Weighted Average Cost of Capital, which has taken into account the project's risk level.
- 5) The Group will invest in projects with readiness in various fields such as investments, technology, raw materials (fuel), land and various licenses, etc.
- 6) The Group will invest in projects with key contractual parties such as power and steam buyer with credibility and ethics in doing business.
- 7) The Group will invest in projects that use modern, reliable technology with high production efficiency and environmentally friendly.
- 8) The Group will invest in projects that are beneficial to the economy, society and sustainable coexistence with the community.
- 9) In the event that the Group will invest in projects that are joint ventures with other investors. Besides the project that must pass the criteria for consideration above, the other parties who invest in such projects in a significant proportion must have business policies that are consistent with the Group's business.

Investment and Management Policy of the Company in subsidiaries and associated companies

Investment and Management Policy of the Company in subsidiaries and associated companies by supervising the operations of subsidiaries and associated companies The Board of Directors will consider sending a representative of the Company which has qualifications and experience suitable for the business that the Company Invest as a director in a subsidiary and associated company of the said company. The representative may be the chairman of the board, Chief Executive Officer, director, senior management or any person of the Company without conflict of interest with the business of those subsidiaries and associated companies. And able to control and supervise the business and operations of the subsidiaries and associated companies, and must manage the business of the subsidiaries and associated companies in order to be in the best interests of the Company, to comply with the laws related to the business operations of such subsidiaries and/or associated companies. In addition, the submission of representatives to be directors in such subsidiaries and associated companies shall be in accordance with the Company's shareholding proportion.

In this regard, the Company will closely monitor the operating results and operating results of its subsidiaries and associated companies, including supervising the collection of information and accounting records of subsidiaries and associated companies for the Company to examine

Investment Capital

The Company operates its main business by holding shares in other companies that operate the business of generation and selling electricity and steam. and other businesses that support or are related to the business of producing and selling electricity and steam Therefore, the Company's major assets as of December 31, 2022 are investment capitals in 40 subsidiaries, comprising 1 direct subsidiary and 39 indirect subsidiaries companies, details are as follows:

Company	Book value of investment under cost method (Million Baht)	Investment Proportion (%)	Proportion of investment to total assets of the Company ¹ (%)
<u>Direct Subsidiary</u>			
1. ASCE	11,000.00	100.0	98.46
<u>Indirect Subsidiaries*</u>			
1. ACP	1,778.65	100.0	15.92
2. ALCP	2,750.75	100.0	24.62
2.1 NCE	206.86	90.0	1.85
2.2 ABP	237.66	90.0	2.13
3. AAPP	1,000.00	100.0	8.95
4. AAP	572.09	100.0	5.12
5. ABA	661.50	100.0	5.92
6. AFT	8.20	100.0	0.07
7. BPP	528.35	100.0	4.73
8. ACE SOLAR	341.92	100.0	3.06
9. ACW	176.33	100.0	1.58
10. AAA	1,500.00	100.0	13.43
11. AAE	499.08	100.0	4.47
12. ABE	490.64	100.0	4.39
13. ACES	423.77	100.0	3.79
14. PSMS	82.00	100.0	0.73
15. PRE	127.80	100.0	1.14
15.1 KTNP	7.0	90.0	0.06
15.2 KTDp	7.0	90.0	0.06
15.3 KTHP	7.0	90.0	0.06
15.4 RBNP	5.0	90.0	0.04
15.5 CBRP	7.0	90.0	0.06
16. REC	74.36	100.0	0.67
16.1 KTRC	7.0	90.0	0.06
16.2 TRRP	5.0	90.0	0.04
16.3 WLCPP	20.0	90.0	0.18
16.4 KACPP	20.0	90.0	0.18
16.5 KHLCP	7.0	90.0	0.06
17. REN	137.50	100.0	1.23
17.1 BURC	7.0	90.0	0.06
17.2 KAMD	7.0	90.0	0.06
18. RENE	224.76	100.0	2.01
18.1 TDPP	5.0	90.0	0.04
18.2 NHCP	7.0	90.0	0.06
18.3 TKNP	5.0	90.0	0.04
18.4 TCPP	7.0	90.0	0.06
19. RESM	152.50	100.0	1.37
19.1 KTRP	7.0	90.0	0.06
19.2 KPKKC	7.0	90.0	0.06
รวม	12,118.72	-	108.48

Remark: ¹ Total assets according to the company's separate financial statements as of Dec 31, 2022 was 11,171.61 million baht.

The main fixed assets used in business operations

The Company and Direct Subsidiaries (ASCE) operate their main business by holding shares in other companies therefore most of the assets belong to indirect subsidiaries that have a business (Operating Company). As of December 31, 2022, fixed assets of the Group have a net book value after deducting accumulated depreciation and provision for impairment, as shown in the Company's consolidated financial statements of 11,226.82 million baht, details are as follows:

(Unit: MB)

Company	Land	land improvement	Building and building improvements	Equipment	Office Supplies and Furnishing	Other Tools	Vehicle	work in progress	Net Book Value as of 31 Dec 2022
1. The Company	-	-	62.48	-	3.74	0.11	-	-	66.33
2. Direct Subsidiary (Holding Company)									
- ASCE	-	-	-	-	-	-	-	-	-
3. Indirect Subsidiaries (Operating Company)									
- ACP	577.99	80.63	315.44	1,855.57	2.11	3.56	-	147.77	2,983.07
- ALCP and subsidiaries	747.16	175.87	125.63	831.85	3.09	1.68	2.85	375.04	2,263.17
- AAPP	326.78	15.33	97.75	747.25	1.13	1.55	0.66	1.70	1,192.15
- AAP	199.19	71.83	45.61	362.75	0.73	0.68	2.06	0.91	683.76
- ABA	83.65	14.59	76.94	393.96	0.45	0.91	2.90	0.91	574.31
- BPP	57.08	-	-	-	0.02	-	-	394.40	451.50
- ACE SOLAR	128.04	1.65	2.59	108.77	0.31	1.39	-	41.37	284.12
- ACW	131.67	0.19	5.21	14.10	0.02	0.37	-	7.70	159.26
- AAA	355.76	229.71	15.52	52.01	1.06	2.50	0.19	0.04	656.79
- AAE	37.65	4.48	72.26	192.11	0.59	1.35	0.02	0.07	308.53
- ABE	35.79	9.15	29.28	307.20	0.72	2.71	1.16	4.98	390.99
- ACES	42.95	7.73	32.03	204.41	0.93	2.72	2.64	1.39	294.80
- PSMS	-	-	-	3.25	0.64	3.86	-	-	7.75
- PRE and subsidiaries	82.71	-	-	-	-	-	-	10.45	93.16
- REC and subsidiaries	218.15	-	-	-	0.02	-	-	11.25	229.42
- REN and subsidiaries	187.41	-	0.31	-	0.03	0.82	-	6.37	194.94
- RENE and subsidiaries	227.59	-	-	-	-	-	-	8.17	235.76
- RESM and subsidiaries	152.32	-	-	-	-	-	-	4.69	157.01
Total	3,591.89	611.16	881.05	5,073.23	15.59	24.21	12.48	1,017.21	11,226.82

Intangible Asset and Right to service under concession arrangement

The group of companies have a book value of Intangible assets after deducting amortization and provision for impairment, as shown in the Company's consolidated financial statements as of December 31, 2022, equal to 1,530.93 million baht, details as follows:

Intangible Assets	Details	Book value as of Dec 31, 2022
- Right to provide services from the concession agreement	Right to provide services from the Group's Concession Agreement on August 18, 2011, ALCP entered into a waste disposal contract with Khon Kaen Municipality according to the project for managing and disposing of solid waste by means of converting solid waste into electrical energy for a period of 20 years from the date of the contract signing. The contract requires construction of buildings and waste disposal systems as specified in the contract on the leased land of the municipality and upon the expiration of the lease term, the buildings, machinery and equipment under the contract will be owned by the Khon Kaen municipality. In addition, on February 22, 2019, ALCP has entered into a waste disposal contract with Krabi Municipality under the project of management and disposal of solid waste by means of converting waste into electric power for a period of 25 years from the date of the contract signing by the contract requires that the construction of buildings and waste disposal systems as specified in the agreements on the leased land of Krabi Municipality and upon the expiration of the lease term, the buildings, machinery and equipment under the contract will be owned by the Krabi municipality. As a result, the Group must be recorded as an intangible asset and amortization of such rights throughout the concession agreement	1,470.96
- Right to use the gas pipe	The right to use gas pipes of the AAA project arises on October 1, 2012, AAA entered into a gas purchase agreement with PTT Public Company Limited ("PTT"). The purchaser is responsible for the construction of the gas pipeline system to the AAA project and allow PTT to own the ownership with various licenses (if any) in the sub-pipeline system without compensation and without obligation. The contract is 25 years period starting from the commercial gas consumption. Therefore, AAA records all construction costs as the right to use the gas pipeline as an intangible asset and amortization of such rights for a period of 25 years starting from the date of commencement of commercial gas use	0.98
- Right to use the power transmission line system	Right to use the power transmission line system of the Group, which is the cost of expanding the transformer installation zone, the Group paid to the Provincial Electricity Authority to parallel the generators to the electrical system of the Electricity Authority or for connecting the power station to the power plant of the Group	40.03
- Right to use water pipes	Right to use the water pipes of the Group, which is the cost of expanding the water distribution area that the Group paid to the Provincial Waterworks Authority to connect the water supply pipes of the Provincial Waterworks Authority to the Group's power plants.	6.89
- Computer programs and the programs during installation	Programming cost for Power meter reading and design program for the SOLAR rooftop project (by ACE Solar) and ACE accounting software with a Microsoft Dynamics 365 system license.	9.99

Intangible Assets	Details	Book value as of Dec 31, 2022
- Power Purchase Agreement	Power purchase agreement received from the purchase of shares of a biomass power plant operator during the year	2.08
รวม		1,530.93

Summary of Significant Agreements

- According to Notes to Financial Statements Title "Significant Agreements" -

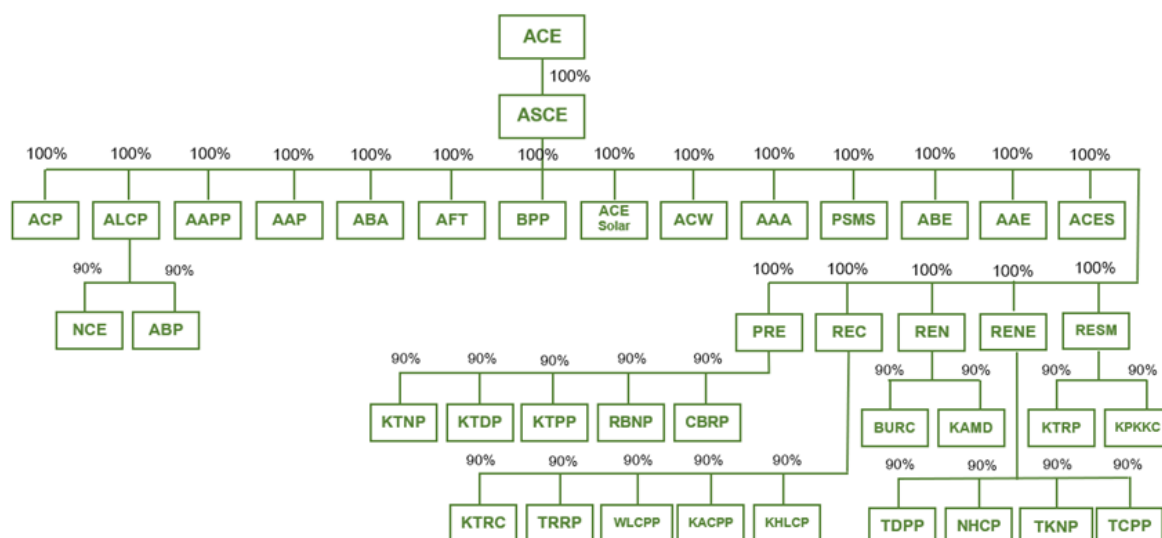
Promotional Privileges from the Board of Investments

- According to Notes to Financial Statements Title "Promotional Privileges" -

Work that has not yet been delivered

- None -

1.3 The Company Group Structures



Overview of the Business Operation of the Subsidiary Company

As of December 31, 2022, the company invests in the subsidiary companies, as follows.

- 1) Direct Subsidiaries and Indirect Subsidiaries that operate business by holding shares in other companies (Holding Company) amounting to 6 companies

Company	Business	Paid-up Registered Capital (MB)
ASCE	Operate as a holding company for companies that generate and sell electricity and steam and companies that support the production and selling of electricity and steam in Thailand	11,000.0
PRE	Holding Company	128.8
REC	Holding Company	74.4
REN	Holding Company	137.5
RENE	Holding Company	224.8
RESM	Holding Company	152.5

- 2) Indirect Subsidiaries that generate and distribute electricity and steam 33 companies

Company	Business	Paid-up Registered Capital (MB)
ACP	Generate and distribute electricity and steam from biomass energy	1,778.7
ALCP	Generate and distribute electricity and steam from biomass energy and MSW	2,749.1
AAPP	Generate and distribute electricity and steam from biomass energy	1,000.0
AAP	Generate and distribute electricity and steam from biomass energy	570.7
ABA	Generate and distribute electricity and steam from biomass energy	699.5
AFT	Generate and distribute electricity and steam from biomass energy	8.2
BPP	Generate and distribute electricity and steam from biomass energy	530.2
ACE SOLAR	Generate and distribute electricity and steam from biomass energy and Solar	343.2
ACW	Generate and distribute electricity and steam from biomass energy	180.3

Company	Business	Paid-up Registered Capital (MB)
AAA	Generate and distribute electricity and steam from natural gas energy	1,500.0
AAE	Generate and distribute electricity and steam from biomass energy	540.1
ABE	Generate and distribute electricity and steam from biomass energy	650.0
ACES	Generate and distribute electricity and steam from biomass energy	590.0
NCE	Generate and distribute electricity and steam from MSW	206.9
ABP	Generate and distribute electricity and steam from MSW	237.6
KTNP	Generate and distribute electricity and steam from biogas energy	7.8
KTDP	Generate and distribute electricity and steam from biogas energy	7.8
KTPP	Generate and distribute electricity and steam from biogas energy	7.8
RBNP	Generate and distribute electricity and steam from biogas energy	5.6
CBRP	Generate and distribute electricity and steam from biogas energy	7.8
KTRC	Generate and distribute electricity and steam from biogas energy	7.8
TRRP	Generate and distribute electricity and steam from biogas energy	5.6
WLCPP	Generate and distribute electricity and steam from biogas energy	22.2
KACPP	Generate and distribute electricity and steam from biogas energy	22.2
KHLCPP	Generate and distribute electricity and steam from biogas energy	7.8
BURC	Generate and distribute electricity and steam from biogas energy	7.8
KAMD	Generate and distribute electricity and steam from biogas energy	7.8
TDPP	Generate and distribute electricity and steam from biogas energy	5.6
NHCP	Generate and distribute electricity and steam from biogas energy	7.8
TKNP	Generate and distribute electricity and steam from biogas energy	5.6
TCPP	Generate and distribute electricity and steam from biogas energy	7.8
KTRP	Generate and distribute electricity and steam from biogas energy	7.8
KPKKC	Generate and distribute electricity and steam from biogas energy	7.8

3) Indirect subsidiary company that operates as a power plant maintenance 1 company

Company	Business	Paid-up Registered Capital (MB)
PSMS	Maintenance renewable energy power plants, focusing on maintenance the power plants of the group.	82.0

Because the Company's main business is a holding company for subsidiaries that generate and sell electricity and steam and companies that support the production and selling of electricity and steam in Thailand, the Company need to meet the qualification set in the announcement of the capital market supervisory board regarding the requesting and granting permission to sell a newly issued share (Tor.jor. 39/2016) and the announcement of the Securities & Exchange Commission (SEC) regarding the size of the company in order to operate as a holding company to sell a newly issued share (Sor.jor. 50/2018). When considering the qualifications, the company has met all of the qualifications, which are as follows.

Criteria for Size Comparison for the Company	Regulation requirements	Company qualification
Size of the subsidiary company that run the main business compared to the size of the company <u>Calculations:</u> (Total assets of the company - Investments in associated and other companies) / Total assets of the company	25.0%	100.0%
Size of the company that run the main business compared to the size of the company <u>Calculations:</u> (Total assets of the company - Investments in other companies) / Total assets of the company	75.0%	100.0%
Size of other companies compared to the size of the company <u>Calculations:</u> Investments in other companies / Total assets of the company	25.0%	0.0%

Relationships with the Group's Major Shareholders

As of December 31, 2022, Songmetta group, the major shareholder of the Company, holds a proportion of 76.43% of the total registered capital of the Company. Members of Songmetta group are also the directors and the management of the Company. The Company also runs other businesses like growing fast-growing trees, producing plant-based products. They are one of the world's largest selling and exporting wood chips groups. Their other businesses also support the Company's business especially in creating a secure long-term biomass fuel material supply, from their wood chip business. However, Songmetta group might have a conflict of interest within the group, which can be classified by type of business as follows, apart from the agricultural businesses, the Company also owns other businesses like real estates and construction business.

Fuel Material Supply Business Group

Songmetta group has the power to control other fuel supply businesses outside the Group as follows,

Name	Business Type
Global Wood Chip Co., Ltd. ("GWC")	Generate and distribute chopped woods, log, and bark
Shaiyo Supply Chain Co., Ltd. ("SSC")	Generate and distribute chopped woods, log, and bark
Sri Ban Phai Co., Ltd. ("SBP")	Generate and distribute chopped woods, log, and bark
Global Wood Chip Trading Co., Ltd. ("GWT")	Generate and distribute chopped woods, log, and bark
Agro Energy Supply Co., Ltd. ("AES")	Generate and distribute wood chips, logs and bark
Siam Agro Industry Product Trading Co., Ltd. ("SAIPT")	Buy and sell chopped woods, log, and bark
Advance Asean Co., Ltd. ("AAS")	Research and generate agricultural seedlings
Advance Asia Fiber Co. Ltd. ("AAF")	Solid fiberboard manufacturing business
Triple A Board Co., Ltd. ("TAB")	Plywood and veneer wood business

The Group has made the fuel material purchase agreements which clearly specifies the method of calculating the price. The price is comparable to the market. The terms of the contract are according to the general trading principles to maintain the highest benefits of the shareholders which are according to the regulations of SET and SEC.

Power Plant Construction Business Group

Songmetta group has the power to control other power plant construction businesses outside the Group, which are as follows,

Name	Business Types
Advance Energy Development Co., Ltd. ("AED")	Engineering services, improve, repair, and maintenance buildings, factories, and machineries
Goodwill Innovation and Engineering Co., Ltd. ("GIE")	Construction
AED Fabrication Co., Ltd. ("AEDF")	Generate metal structure for the construction, industrial, machinery and parts.
Ascender Limited ("ASD")	Buy and sell machinery and tools

The above companies mentioned have knowledge to build and improve power plants, as well as procurement and maintenance of the machines. Previously, the Group had hired the mentioned companies to improve and build biomass and MSW power plants. As the Group is already aware of the potential conflicts that can arise, the Group has established policies and measures to prevent the potential conflicts.

Electricity Production and Distribution Business Group

Songmetta group has the power to control other businesses that generate and distribute electricity outside the Group. These businesses have not operated yet because the PPA contracts with EGAT had been canceled. The maximum amount of electricity offered was 8.0 megawatts and the expected installation capacity is 9.90 megawatts, as follows,

Name	Business Types
Advance Power Plant Co., Ltd. ("APP")	Generate and distribute electricity from biomass

The reason that the Group had not included APP as a part of the Group during the restructuring before being listed in the SET was because APP was in the process of requesting PEA to return the PPA. Afterwards, on June 21, 2019, the arbitrator made a final verdict on the clear dispute no. 73/2019 so that PEA must return the PPA contract number VSPP-PEA-159/2009 to APP. On August 28, 2019, the shareholders of APP sent a letter stating the purpose to sell the common share of APP to the Company. On October 28, the 1/2019 extraordinary general meeting approved the Company to buy shares of Advance Power Plant Co., Ltd. from a connected Song-Metta group with a limit between 394 million baht and 472 million baht, with the payment and transfer of shares scheduled on the same day, which was within 120 days after the signing date of the purchase of Advance Power Plant Co., Ltd., with a contract to purchase the shares within 6 months from August 28, 2019 or within 15 days from when Advance Power Plant Co., Ltd. and PEA had signed a FiT

Moreover, to prevent the possible conflicts of interest, especially businesses that are competitive or businesses that operate to compete with the main business of the group, Songmetta group, who is the director

and/or the major shareholder of the Company, submit a letter to the group to certify that they will not operate any power plant business to compete with the Group, dated November 29, 2018. The 5/2019 board of directors meeting on May 13, 2019, also approved the measure regarding the response of the investment offers from Songmetta group and agreed to let Songmetta group invest in businesses that might compete with ACE's main business if the Company had declined the investment offer.

Shareholders

List of the Company's Top 10 Shareholders

The structure of the Company's shareholders as of 30 December 2022, as follows

Shareholder	Number of Shares	%
Songmetta Group¹		
1. Mr. Wirachai Songmetta	2,282,528,920	22.431
2. Mr. Pornmett Songmetta	2,088,884,200	20.528
3. Mr. Teerawut Songmetta	1,826,885,820	17.953
4. Mr. Natt Songmetta	1,579,188,480	15.519
- Mr. Tanavijit Ankapipatchai ²	20	0.000
Total	7,777,487,440	76.430
5. Siam Commercial Bank Public Co, Ltd. ³	250,656,240	2.463
6. Innovest X Securities Company - STRATEGIC INVEST L	232,112,500	2.281
7. Thai NVDR Company Limited	187,461,371	1.842
8. MORGAN STANLEY & CO. INTERNATIONAL PLC	96,000,000	0.943
9. BNP PARIBAS SECURITIES SERVICES, LONDON BRANCH	86,130,000	0.846
10. Mr. Isares Chirathivat	75,820,800	0.745
Top 10	8,705,668,351	85.551
11. Others	1,470,331,609	14.449
Grand Total	10,175,999,960	100.000

¹ Grouping according to the definition of related parties or persons with possible conflicts, in accordance with the Kor Jor.17/2008 announcement of SEC and SET, dated 15 December, 2008, not (Group Classification) grouped under section 258 or acting in consent and compliance with section 246 and 247.

² Shareholding of Mr. Tanavijit Ankapipatchai is included in the total shareholding of the Songmetta group according to the definition of related parties or persons with possible conflicts, in accordance with the Kor Jor.17/2008 announcement of SEC and SET, dated 15 December 2008. The number of shares held as of 15 December 2019, is not included in the top 10 shareholder of the company.

³ Siam Commercial Bank Public Co, Ltd. and Brooker Group Public Co., Ltd. are independent shareholders with the usual voting right which does not participate in management and does not have any representative in the board of directors.

Shareholders of Subsidiary Companies

Asia Clean Energy Co., Ltd. ("ASCE") is a direct subsidiary company of the Company. As of 31 December 2022, the Company held 10,999,999,980 shares of ASCE (100% of issued and paid-up capital) together with Mr. Teerawut Songmetta and Mr. Pornmett Songmetta who held 1 share each.

ASCE has acquired shares in 18 power plant companies (subsidiary company that operates main business) and 1 other supporting company, PSMS. All these 19 companies are 100% owned by ASCE, making them indirect subsidiary of the Company, with the details of shareholding structure of each company as follows:

Indirect Subsidiary Company Name	ASCE		Mr. Teerawut Songmetta		Mr. Pornmett Songmetta		Other Shareholders ¹	
	Number of Shares (Shares)	%	Number of Shares (Shares)	%	Number of Shares (Shares)	%	Number of Shares (Shares)	%
1. ACP	199,999,998	100.0	1	0.0	1	0.0	-	-
2. ALCP	289,999,998	100.0	0	0.0	0	0.0	2	0.0
3. AAPP	99,999,997	100.0	2	0.0	1	0.0	-	-
4. AAP	57,499,998	100.0	1	0.0	1	0.0	-	-
5. ABA	74,999,998	100.0	1	0.0	1	0.0	-	-
6. AFT	999,993	100.0	2	0.0	-	-	5	0.0
7. BPP	64,999,998	100.0	1	0.0	-	-	1	0.0
8. ACE SOLAR	37,999,998	100.0	1	0.0	-	-	1	0.0
9. ACW	19,999,998	100.0	1	0.0	1	0.0	-	-
10. AAA	149,999,997	100.0	1	0.0	1	0.0	1	0.0
11. AAE	64,999,998	100.0	1	0.0	1	0.0	-	-
12. ABE	6,999,998	100.0	1	0.0	1	0.0	-	-
13. ACES	5,899,998	100.0	1	0.0	1	0.0	-	-
14. PSMS	8,199,997	100.0	1	0.0	1	0.0	1	0.0
15. PRE	21,999,997	100.0	1	0.0	1	0.0	1	0.0
16. REC	14,999,997	100.0	1	0.0	1	0.0	1	0.0
17. REN	39,999,997	100.0	1	0.0	1	0.0	1	0.0
18. RENE	47,999,997	100.0	1	0.0	1	0.0	1	0.0
19. RESM	24,999,997	100.0	1	0.0	1	0.0	1	0.0

Note: ¹ Other shareholder are

1. Miss Anusariya Pholcha holds 1 share of ALCP
2. Miss Napasawan Mungmee holds 1 share of ALCP
3. Mr. Natt Songmetta holds 1 share of AAA
4. Mr. Tanavijit Ankapiatchai hold 5 shares of AFT and 1 share of BPP, ACE, ACE SOLAR, PSMS, PRE, REC, REN, RENE and RESM

Shareholder's Agreement

The Company does not have any shareholder's agreement in matters that affects the securities issuance or offering; or the Company management in which the Company is the co-signer of the agreement.

1.4 Number of Registered and Paid-up Capital

Absolute Clean Energy Public Co., Ltd. ("The Company")

As of 31 December 2022, the Company has a registered capital of 5,487,999,980 baht and a paid-up capital of 5,087,999,980 baht. This consists of 10,975,999,960 common shares at a par value of 0.50 baht per share and be listed in the Stock Exchange of Thailand.

Subsidiary Company

As of 31 December 2022, the Company has 40 subsidiary companies, consisting of 1 direct subsidiary and 39 indirect subsidiaries, with the details of registered capital, issued and paid-up capital of each subsidiary company as follows,

Company	Registered Capital As of 31 December, 2022 (Baht)	Issued and Paid-up Capital As of December 31, 2022 (Baht)
1. ASCE	11,000,000,000	11,000,000,000
2. ACP	2,000,000,000	1,778,650,000
3. ALCP	2,900,000,000	2,749,050,000
3.1 NCE	550,000,000	206,862,400
3.2 ABP	550,000,000	237,656,800
4. AAPP	1,000,000,000	1,000,000,000
5. AAP	575,000,000	570,725,000
6. ABA	750,000,000	699,500,000
7. AFT	10,000,000	8,200,000
8. BPP	650,000,000	530,150,000
9. ACE SOLAR	380,000,000	343,220,000
10. ACW	200,000,000	180,299,000
11. AAA	1,500,000,000	1,500,000,000
12. AAE	650,000,000	540,120,000
13. ABE	650,000,000	650,000,000
14. ACES	590,000,000	590,000,000
15. PSMS	82,000,000	82,000,000
16. PRE	220,000,000	128,800,000
16.1 KTNP	7,777,780	7,777,780
16.2 KTDP	7,777,780	7,777,780
16.3 KTHP	7,777,780	7,777,780
16.4 RBNP	5,555,560	5,555,560
16.5 CBRP	7,777,780	7,777,780
17. REC	150,000,000	74,360,000
17.1 KTRC	7,777,780	7,777,780
17.2 TRRP	5,555,560	5,555,560
17.3 WLCPP	22,222,230	22,222,230
17.4 KACPP	22,222,230	22,222,230
17.5 KHLCP	7,777,780	7,777,780
18. REN	400,000,000	137,500,000
18.1 BURC	7,777,780	7,777,780
18.2 KAMD	7,777,780	7,777,780
19. RENE	480,000,000	224,760,000
19.1 TDPP	5,555,560	5,555,560
19.2 NHCP	7,777,780	7,777,780
19.3 TKNP	5,555,560	5,555,560
19.4 TCPP	7,777,780	7,777,780
20. RESM	250,000,000	152,500,000
20.1 KTRP	7,777,780	7,777,780
20.2 KPKKC	7,777,780	7,777,780

1.5 Other Securities Issuance and Company Credit Rating

Issuance of other securities

Debenture

As of 31 December 2022, the Company had not issued any other securities.

Company Credit Rating

The Company has been assigned a company rating of “BBB+” (Triple B Plus) with the “Stable” from the credit rating agency TRIS Rating Co., Ltd. on 11 October 2021.

1.6 Dividend Policy

Dividend Payment Policy of the Company

The Company has a policy to pay the dividend to the shareholders at the rate not less than 30% of the net profit, according to the separate financial statements after deducting the corporate income tax and other reserves as specified by the law and company regulations. The dividend payment rate might be different from the specified rate, depending on the performance, financial status, cash flow, liquidity rate, investment plans, conditions and contractual terms which the Company is bound to, as well as the economic conditions, necessity, and other suitability as the Board of Directors deems appropriate. The annual dividend payment must be approved at the shareholders' meeting except for the interim dividend payment which the board of directors may approve from time to time when it deems that the Company has made enough profit to do so and report the payment of interim dividend to the next shareholders' meeting.

In addition, because the Company operates business by holding shares in subsidiary companies and has no significant business of its own (Holding Company). Therefore, the Company's ability to pay dividends depends mainly on the operating results and dividend payment of the subsidiaries and associated companies.

Historical Dividend Payment

Year	Dividend per Share (Baht)	Par (Baht)	Payout Ratio (%)	Payment Date
2020	0.048	0.50	74.51	13 May 2021
2021	0.020	0.50	53.08	11 May 2022
2022*	No dividend payment for the operating results of the year 2022 since the company has to reserve cash for working capital and investment in various projects. according to the plan.			

* The rate approved by the Board of Directors' meeting on February 28, 2023 and to be proposed for approval at the shareholders' meeting at the Annual General Meeting of Shareholders for the year 2023

Dividend Payment Policy of the Subsidiary Companies

The subsidiary companies have a policy to pay the dividend to the shareholders at the rate not less than 40% of the net profit according to the separate financial statements after deducting the corporate income tax and other reserves as specified by the law and company regulations. The dividend payment rate might be different from

the specified rate, depending on the performance, financial status, cash flow, liquidity rate, investment plans, conditions and contractual terms which the Company is bound to, as well as the economic conditions, necessity, and other suitability as the Board of Directors deems appropriate. The annual dividend payment must be approved at the shareholders' meeting except for the interim dividend payment which the board of directors may approve from time to time when it deems that the Company has made enough profit to do so, and report the payment of interim dividend to the next shareholders' meeting.

Furthermore, for the consideration and approval of the payment of the annual dividends and interim dividends, the subsidiary companies need to request an approval from the meeting of the board of directors of the Company first, which must be in accordance with the supervision policy of the subsidiaries and associates' companies.



2. Risk Management

2.1 Risk Management Policy

Absolute Clean Energy Public Company Limited (“the Company”) and its subsidiaries recognize the importance of good organizational management in driving the organization to grow and expand its business with stability and financial security and to generate returns for shareholders as well as conforming to Good Corporate Governance. The Company and its subsidiaries also prioritize Check and Balance amidst the current business competition they are facing, which is constantly changing due to both external and internal factors, and such competition may affect their ability to achieve their goals and complete their core missions. Therefore, the risk management policy must cover at least 4 aspects of risk as follows:

1. Financial Risk
2. Operational Risk
3. Strategic Risk
4. Compliance Risk

The Board of Directors agrees that the risk management system should be implemented in the operations of the Company and its subsidiaries for Good Corporate Governance in order to continuously strengthen the confidence of the shareholders and all parties involved in the operations, and to achieve the objectives of and add value to the Company and its subsidiaries. The objectives of risk management policy and framework of the Company and its subsidiaries are defined as follows:

Definitions of Risk and Risk Management

Risk is defined as “uncertainty opportunities/events or matters which prevent the current plans or operations from reaching their objectives/goals and subsequently cause negative impacts on the organization, both in terms of financial aspect and the image and reputation of the organization.”

Risk Management means “processes performed by the Board of Directors and all personnel in the organization to assist in the formulation of strategies, plans, and operations. It is designed to identify events that may occur and impact the organization and to manage risk appetite so that the organization can gain reasonable confidence that it would achieve the objectives it has set forth.”

Objectives of Risk Management

1. To implement an internationally-standardized risk management system throughout the organization and set risk management as an integral part of the decision-making process for strategies, plans and operations the Company and its subsidiaries;
2. To formulate measures and guidelines to keep the remaining risks within an acceptable level by considering measures to effectively reduce the likelihood and/or impacts of potential risks, which will drive the Company and its subsidiaries to achieve the specified objectives both on the organizational and departmental levels;
3. To identify unexpected risks or crises and take actions to reduce losses or damage to the organization appropriately and in a timely manner;

4. To keep the Executive Committee, the Audit Committee and the Board of Directors informed of important risks, risk outlook, and overall risk profile, and to supervise the risks with efficiency and effectiveness;
5. To ensure that all departments are responsible for identifying, assessing, and managing critical risks regularly, including in the case of important events, activities, processes and/or projects, or in the case of significant changes that have never taken place within the organization, while taking into account the risk appetite and practical capability at reasonable costs;
6. To ensure regular communication and transfer of risk management knowledge to personnel, development of their understanding and awareness of risk ownership, and joint risk management among those responsible for the same work; and
7. In order to operate in accordance with the principles of Good Corporate Governance and Check and Balance, the Company separates the risk management duties from the business units. In addition, for effective risk management, the Company may consider establishing a risk management working group which can be appointed by the Board of Directors to monitor and manage risks appropriately and in a timely manner. The Risk Management Working Group operates under the supervision of the Chief Executive Officer (CEO) and must report significant risks to the Company and its subsidiaries and the status of the risks, risk management guidelines, progress, and results of risk management to the Audit Committee and/or the Board of Directors as necessary and appropriate or as required by the Audit Committee and/or the Board of Directors.

Risk Appetite

Risk Appetite is the maximum acceptable level of risk on the organizational level that may be specified by the Board of Directors or a group of persons or persons assigned by the Board of Directors such as the Audit Committee, Executive Committee, Risk Management Working Group, or Chief Executive Officer (CEO), and is used to evaluate and manage risks. Any risk that has been analyzed and assessed to have possible impacts on the Company and its subsidiaries beyond their risk appetites is to be managed by the agency owning the risk. The agency is required to prepare a risk management action plan and report it to the Risk Management Working Group by dividing the risk appetite into 3 areas as follows:

1. Financial Risk Appetite

The Company and its subsidiaries accept any loss of money or reduction of revenue to a certain extent but not more than the level that materially affects their liquidity or financial position.

2. Business Continuity Risk Appetite

The Company and its subsidiaries accept a certain extent of interruption or delay in business continuity but does not accept any interruption or delay that are so prolonged that they cause continual damage to performances and consequently significant impacts on confidence in the quality of products and services and customer satisfaction

3. Customer Satisfaction Risk Appetite

The Company and its subsidiaries do not accept any assessment results of customer satisfaction obtained through their random surveys that are lower than their standards as the results below standard can affect the operations and reputation of the Company and its subsidiaries in the future.

Risk Management Policy

The Company and its subsidiaries recognize the importance and necessity of implementing an internationally-standardized risk management system in their management with the aim to become leading organizations with good image and reputation that satisfy their customers, and to set an operational standard throughout the organizations.

Therefore, the risk management policy is specified as follows:

1. Personnel at all levels are responsible for risk management. They must be aware of the risks involved in the operations of their own units and organizations and ensure that they appropriately keep different risks in various fields under systematic internal control.
2. The organizational risk management process must be established to meet international standards for effective management of risks that may affect the operations of the Company and its subsidiaries, and for standardized risk management throughout the organizations. The risk management system will be an integral part of the decision-making process for strategies, plans and operations. By focusing on achieving their objectives, visions, missions, and strategies, the Company and its subsidiaries will excel in their operations and successfully build the confidence of the persons involved.
3. Guidelines for preventing and mitigating risks from the operations of the Company and its subsidiaries must be formulated to avoid damage or loss that may occur, as well as regular monitoring and evaluation of risk management.
4. The use of modern information technology systems in the risk management process of the Company and its subsidiaries must be promoted and developed. Personnel at all levels must be provided with access to information on risk management thoroughly, and an effective risk management reporting system must be established for the Audit Committee.

2.2 The Risk Factors

The information contained in this document, describes the significant risks, which the Group has Assessed according to current circumstances, and current data, including risks that are not currently occurring, but may be significant risks in the future, which will adversely affect conducting the business, Operations, financial status, operating performance, ability to pay dividends, and the value of common stock of the Group, which may prevent investors from receiving returns, or rights, which may result in the loss of some or all of the investment.

The Group's risk factors discussed in this section, can be divided into 4 categories, namely

- (1) Business Risk
- (2) Financial Risk
- (3) Risk that may impact Investment rights of securities holders
- (4) Emerging Risk

in which each category has the following details;

(1) **Business Risk**

Market and Competition Risk

Risk of the uncertainty on obtaining the rights to develop power plant projects in the future

The growth potential of the electricity generation and distribution business is derived from the acquisition of rights to develop power plant projects in the future, which may be affected by uncertainty in the bidding for power plant projects in the future, and may unable to determine the duration of the said auction, as it must be in accordance with the government policy and administration, the Energy Regulatory Commission (ERC), the Electricity Generating Authority of Thailand (EGAT), and/or other relevant government agencies.

For each bidding for the rights to develop power plant projects, the Energy Regulatory Commission (ERC), will consider areas with potential for power generation, along with the potential for transmission systems, and the potential of power distribution systems in that area. Therefore, the bidding of the government power plant projects in each period may be limited, and depends on the availability of each area.

Although the Group of Companies may be at risk due to uncertainty in the bidding for the right to develop the future power plants, however, from the power development plan of Thailand as discussed above, the Group believes that the demand for electricity in Thailand tends to increase due to economic growth and population growth, as a country with numerous production bases of heavy industries, as well as the growth of the Tourism Industry. Therefore, there must be more power plant projects to support the said growth. From plans to promote electricity production from alternative energy using fossil fuels, the Group believes that it has sufficient potential to participate in bidding for the rights to develop power plant projects in the future, due to the expertise, the experience, and the readiness in operating a VSPP power plant from alternative energy and a variety of alternative fuels.

Risk from the high competition to obtain the right to develop power plant projects in the future

Although the Group is confident that the bidding for new power plant projects will continue in the future, in accordance with the country's development direction, which must increase the security of electricity supply to keep up with the growth of electricity demand, and to be in line with the need to increase electricity production from

alternative energy in accordance with government policies. The Group still faces the risk of increased competition in the power generation business, both in the increasing number of companies, and in the pricing competition, as the ERC changed the method of selecting electricity producers from renewable energy from the past, to mainly considering the readiness of qualifications. The Government has set the reference pricing for electricity to be considered as a Competitive Bidding Method, by considering the price, the technical and engineering qualifications, the bidder's financial status, land readiness, access to sources of funding, operating history, various qualifications and other conditions for biomass power plant projects, industrial waste, community waste, and natural gas. The increased consideration criteria and higher competition, with the prices being an important condition, making the Group not able to guarantee the future power plant development rights, which may impact earnings growth of the Group in the long run.

However, the Group has the experience and the expertise in operating alternative energy power plant projects. For example, the biomass power plants, community solid waste power plants, solar power generation projects, etc. In particular, the biomass power plant, which the Group has the long experience, since its first power plant construction, including improvements and development of machinery and equipment used to generate electricity with higher efficiency continuously, resulting in fuel material advantages from being able to use a variety of biomass fuels. The technical specifications and experience in power generation of the Group of Companies will give the Group the advantage over competitors without the qualifications, or experience as required by the Government. Therefore, the Group is confident that it is ready to participate in the bidding, and be entitled to develop the power plant project in the future. In addition, the Group of Companies had studied the implementation of power plant projects from other alternative energy sources, apart from biomass fuel, waste, and natural gas that the Group has Currently operating in addition, to increase the ability to compete with competitors in the long term. Moreover, the Group had conducted the feasibility study of the project, in order to assess the return and investment risk prior to bidding on every new project, to ensure that the investment in that project will generate a high return on the Group's financial costs, and for the best interest of the shareholders, in accordance with the investment policy as approved by the Board of Directors.

Risk of relying solely on a few numbers of main customers

The current power plant structure in Thailand classifies private power producers into 3 groups, namely, the large private power producers (IPP), the small private electricity producer (SPP), and the very small private power producers (VSPP), with the Electricity Generating Authority of Thailand (EGAT), the Metropolitan Electricity Authority (MEA), and the Provincial Electricity Authority (PEA), as contractual parties in the power purchase agreement, the major wholesale buyers of electricity, and the controller of all electrical wholesale systems in Thailand.

As of December 31, 2022, the Group operates 4 types of power plant projects, consisting of

- 13 biomass power plant projects, totaling 102.5 megawatts of electricity sales to PEA under power purchase agreements.
- 2 solid community waste power plant projects, which sells electricity to PEA under the power purchase agreement of 8.9 MW.
- 1 natural gas power plant project has electricity sales volume to EGAT in the amount of 90.0 MW.
- 6 rooftop solar power plants, with a volume of electricity sold to a private buyer under the power purchase agreement, total 5.32 MW.

In the 2021 financial statement, the Group sold electricity to PEA and EGAT, accounting for 63.61% and 34.53% of sales and service income in the consolidated financial statements of the group of companies respectively. In 2022, the Group sold electricity to PEA and EGAT, accounting for 51.50% and 46.85% of sales and service revenue according to the Group's consolidated financial statements, respectively. In short, the main revenue of the group relies on only a small number of large customers, because both electricity utilities are considered government agencies with high reliability. In the past, the payments by two power utilities have never been overdue, or late payment of electricity from the time specified in the power purchase agreement, resulting in a low risk of relying on large group customers. In addition, the long-term power purchase agreements with both power utilities allow the Group to be able to predict stable revenue over the long term, since there would be a clear determination of the amount of power to be purchased and the terms of the agreements.

For the sale of electricity to other customers other than the two power companies, the Group has established procedures for assessing customer creditworthiness and registering customers before transactions, including evaluating customer history, financial statements in the past (a juristic person), and estimated sales between the group and future customers, in order to set an appropriate credit limit, to control the quality of the customer, and to reduce potential risk in the future. In addition to the two power utilities, the Group currently has a related company that has a factory located in the vicinity of the power plant project area of the Group and other industrial customers. In the fiscal year ended 31 December 2022, the Group earned revenue from sales of electricity and steam to 8 industrial customers in the amount of THB 58.45 million, or 0.84% of the revenue from sales and services, according to the Group's consolidated financial statements.

Raw Material Risk

Risk from Fuel Material shortage for electricity generation

Fuel is an important raw material for electricity generation for all types of power plants. The Group's biomass power plants utilize agricultural waste as primary fuel, such as eucalyptus bark, chopped wood, rice husk, corncobs, corn husk, sugarcane leaves, and palm bunches etc. Each project may use different fuel materials depending on the location, climate, vegetation, nearby economy, availability of fuel in each area, and other factors. For the fiscal year ended 31 December 2021 and 2022, the Group had the cost of biomass fuel accounting for 55.40% and 53.90%, of the total cost of sales of the biomass power plant project, respectively.

The Group is aware of the importance of biomass fuels, starting from the site selection process, by conducting a field study for the type and amount of fuel materials in the area and nearby communities, to ensure that the project site has sufficient fuel materials suitable for power plants, in order to save fuel transportation costs. The group will use the same principles for site selection in the future.

In addition, the Group's biomass power plant projects have entered into long-term contracts to purchase bark from related companies to support the availability of biomass fuel materials. In the fiscal year ended on 31 December 2021 and 2022, the group of companies purchased fuel from related companies, accounting for 51.00 % and 47.11% of the total purchase price of biomass fuels materials, respectively.

In addition to surveying and selecting areas where the factory is located, the Group has chosen to use machinery that can use a variety of biomass fuels to generate electricity, which are able to burn fuels with a high moisture content of about 60–65% more efficiently. The Group has also continuously improved the machinery for higher efficiency in order to increase efficiency for power plants, by using the amount of fuel used in electricity

generation to have a lower heat value (Plant Heat Rate), to reduce fuel consumption per unit of electricity generated, enabling the Group to manage fuels to reduce the risk of the availability of biomass fuels, since they can use small number of fuel materials to generate electricity, and will be able to specify, and improve fuel mixing formulas as appropriate. Fuel procurement agencies and project managers in each project will consider the fuel type of each area, the amount of fuel in each season, the heating value of each type of fuel material, and the cost of each type of fuel, to control the efficiency of electricity generation, in order to control the cost per electricity generating unit of the project according to the plan, and to ensure the power plant performance is in line with the Group's goals

In addition, the Group has prepared a location for storing biomass fuels to be sufficient for operation of electricity generators for a maximum period of 45-120 days. Each type of fuel collection depends on the season. For example, each power plant will reserve as much fuel as possible before the rainy season begins. During the rainy season, bark and chopped wood products are low and expensive, resulting in higher moisture content of fuels. Fuel management is therefore an important issue in order to control production costs. If the fuel has high humidity, the fuel will be dried in order to get the right moisture value before importing into the production process.

The group also has guidelines for the purchase of agricultural waste and biomass fuels from farmers' groups, and have collaborated with various organizations, both public and private, to solve the problem of burning of crop residues, forest fires and air pollution. This will allow the company to have more sources of biomass fuel, and create higher stability for biomass fuels for power generation use of the group.

As for community solid waste power plant project, consist of 1) Community waste power plant project, Khon Kaen province the Group has entered into a long-term waste disposal contract with Khon Kaen Municipality ("Municipality"). The community waste power plant project must completely dispose of the old waste within the specified date, and must dispose of the new waste that the municipality will deliver to on a daily basis, for a period of 20 years from the date of the contract. 2) the Community Waste Power Plant Project, Krabi Province has entered into a long-term waste disposal contract with the Krabi Municipality ("Municipality"), whereby the Community Waste Power Plant Project has to get rid of the old waste within the specified date and get rid of the waste. New that the municipality will deliver every day for a period of 25 years from the date of handover of the area from the municipality. In addition, ALCP will continue to procure new waste from other sources on an ongoing basis, by entering into contracts with government and private agencies for contract waste disposal. The new waste added, will be used to replace the amount of old waste for electricity generation, will be a supplement to ALCP to have more income from waste disposal, and will also reduce the risk and create fuel stability so that the electricity can be operated throughout the project life.

Risk of relying solely on one natural gas supplier

The natural gas power plant project of the Group is under the operation of AAA, a subsidiary company (The company indirectly holds 100% of the shares). AAA entered into a gas purchase agreement with PTT Public Company Limited ("PTT"), a state enterprise, and is the only operator that can deliver natural gas to the natural gas power plant project in Thailand. The 25-year contract covers the period of the power purchase agreement between AAA and the Electricity Generating Authority of Thailand ("EGAT").

Damages that may occur if PTT is unable to deliver natural gas as agreed in the contract, causing natural gas power plant projects to be unable to produce electricity for sale to EGAT under the power purchase agreement, may have a significant impact on the Group's revenue and results of operations. For the fiscal year ended 31

December 2021 and 2022, the group had revenue from the natural gas power plant project in the amount of THB 1,965.24 million, and THB 3,042.98 million, respectively, accounting for 34.32% and 43.99% of sales and service revenue, according to the consolidated financial statements of the group, respectively. This natural gas power plant began commercial operation on 10 February 2017.

In this regard, the natural gas purchase agreement states that if PTT is unable to deliver natural gas to the quantity specified in the contract, PTT will have to compensate for the gas supply damage that cannot be delivered at the price according to the calculation formula specified in the contract, but may not be able to fully compensate for the damages from not being able to produce electricity for sale to EGAT. Compensation for such damages will be able to reduce the impact that may occur from the risk of partial dependency. In addition, the Energy Regulatory Commission has a plan to promote competition in the natural gas industry, by establishing a regulation on the preparation of requirements regarding enabling usage} connection of natural gas transmission systems, and LNG stations to third parties (TPA Code). Currently, PTT is in the process of establishing regulations regarding the opening or use of natural gas transmission systems at sea. Once the said promotion plan is fully implemented, the risk from relying on only one supplier of natural gas of the Group will decrease, as the Group is able to procure natural gas from other sellers, if PTT is unable to deliver natural gas as stipulated in the contract.

Risk of fluctuation of biomass fuel prices

Since biomass fuel is a surplus product from agriculture, the amount of such agricultural products may be uncertain in both quantity and price. Therefore, in addition to the risk of the quantity and availability of biomass fuels, the fluctuation of biomass fuel prices is another factor that may be a risk to the operation of the group's biomass power plant projects. The price of each type of fuel depends on various factors, such as the demand and supply of fuels in the market at different times, the quality and humidity of each type of fuel, the distance of the fuel transportation to the power plant, etc. Therefore, fuel management, it is important that the Group recognizes and pays attention, aiming to reduce the damage that may occur from the fluctuation of fuel prices, and to control the cost of fuel, which is the cost of Main production of the project to be at an appropriate level.

The Group has managed the risk of fluctuations in the price of biomass fuels, in order to control the cost of fuel at a specified level, by following up with the fuel price regularly. If any period of time the biomass fuel is large or low, then the purchase of that type of biomass fuel will be increased. At certain times, other biomass fuels may be considered cheaper than expensive biomass fuels, due to the fact that the company has installed the machinery that can utilize biomass fuel to produce various types of electricity in a variety of different moisture. In addition, the Group also conducts studies, researches, and experiments using various types of biomass raw materials, blended together to increase efficiency, including the procurement of alternative biomass fuels, with the objective of stabilizing in the management of fuels to be diverse, and will spread the risk of shortages, or fluctuations in both quantities, and the price of different types of biomass fuels.

Risk from the shortages of raw water used in the production process

Raw water is considered one of the main raw materials used in the electricity generation process of the power plant project. Therefore, the Group places great importance on the management of the availability of raw water, and the amount of reserves that should be available in case of drought. Currently, each biomass power plant project uses an average of 1,000-1,200 cubic meters of raw water per day. The natural gas power plant project uses

approximately 2,160 cubic meters of raw water per day. The municipality solid waste power plant project uses an average of 1,000 cubic meters of raw water per day.

In the process of development and construction of each power plant project, The Group considers purchasing land near natural water sources, or near private water sources, to be used as a reserve water source for production. In addition, the Group also has guidelines for additional land purchases in the area of the power plant, in order to develop a reservoir to store raw water for use in the production process. The size of the pond will depend on the suitability of each area. The biomass power plant project will have a pond area of approximately 12 -130 rai with a capacity of about 270,000-2,000,000 cubic meters. The natural gas power plant project will have an average pond area of approximately 91 rai with a capacity of approximately 1,300,000 cubic meters, resulting in the power plant having sufficient raw water for electricity generation throughout the year.

As for 1) Community Waste Power Plant Project, Khon Kaen province without a pond in the project area, ALCP has entered into a 10-year raw water purchase agreement for 10 years at a price of 10.30 baht per cubic meter. Sellers can adjust the water bill once a year by calculating the cost of water change, but not more than 3% of the raw water price per cubic meter with related companies, which has a raw water pond, size about 5 rai, with a capacity of about 43,000 cubic meters. In addition, the said raw water purchase agreement has the condition that, if any parties wish to terminate the agreement, they can notify the other party in writing, and must receive the written consent of the other party as well. Upon the expiration of the contract (10 years from the COD date), if neither party wishes to terminate the contract, the contract party will continue to enforce the contract for 1 year each time. Even though the community waste power plant project has a long-term water purchase agreement, the community waste power plant project may still be at risk of raw water shortages for usage in the production process, if the contract parties are unable to deliver the raw water as agreed. 2) Community waste power plant project in Krabi Province that does not have a well in the area of the ALCP project has established a long-term industrial water purchase agreement. Until the expiration date of the power purchase agreement at a price of 25 baht per cubic meter. The seller can adjust the water price every year (once a year) at a rate of 1%.

The raw water well is approximately 25 rai with a capacity of approximately 295,000 cubic meters. Both parties agree that the term of this agreement also expires in accordance with the changed power purchase agreement period. Unless expressly agreed otherwise by in writing, signed by both parties.

In addition, companies that supply raw water also have a license to use water from water sources that have water throughout the year to produce raw water. In this regard, since the commencement of commercial electricity sales, waste power plant has never experienced a shortage of raw water before.

Production Risk

Risk from the Unplanned Shutdown of Machinery Disruption

The Group's operating results will mainly depend on the number of operating hours. In the past, the Group had an unplanned shutdown caused by machine failures, which directly affects the results of operations.

The Group is aware of the aforementioned risks, and has therefore developed more efficient machinery, has maintained to be able to operate machinery continuously for a longer period, and thus given the machine longer service life, causing the rate of downtime of the machine other than the specified plan, with a reduced rate, with the goal of not letting pauses outside the plan set forth in the future. At present, the Group has set a goal for continuous

electricity generation throughout the year, without an emergency stop or maintenance stop during the year. Some of the Group's power plants have already achieved this goal.

In addition, the Group has established a process for selecting machinery suppliers, in which the selected vendor must be proficient, must have direct experience in this field, must have credible past work, and with a guarantee of work competency in a reasonable time. The Group has set out a plan for planned shutdown, consisting of Annual Shutdowns to check the condition of the machines twice a year, a total of 12 days off, with a goal of annual shutdown once a year, no more than 10 days at a time, major shutdown plans every 4 years, a total of 15 days off each time, which will determine the plan to inspect each machine, to ensure that all machines are in good condition, and will be able to operate the electricity as normal.

However, if an act of force majeure causes a disruption, the Group has prepared a plan to deal with the said problem. The team of technicians or engineers in various power plants will perform the initial inspection and correction. If the situation cannot be resolved, the Group will contact a team of experts, in order to investigate to resolve the issue as soon as possible.

In addition, other damages may be caused by uncontrollable events. For example, fires, storms, floods, protests, the danger of fire, flames, and natural explosions, etc., which may result in power plants in the group of companies unable to operate the electricity generation, and disrupting business operations, causing a negative impact on the operations. Therefore, the Group has prepared property power risk insurance in Property All Risks, in order to reduce the damage caused by such uncontrollable events, by covering the losses, and damages to the insured property. This includes buildings, machinery, and equipment involved in all types of production. In addition, fuel stocks will be made, which is the main raw material for electricity generation, and coverage for business disruption, which covers loss or damage to the insured property, caused by an additional disaster specified under the insurance policy. In this regard, business interruption insurance is a compensation for the loss of income, caused by the property being damaged by the property risk, and must comply with the conditions specified in the insurance policy, such as the duration of the machinery damage, and affecting the operating day of the power plant etc.

Risk from the Group's natural gas power plant project unable to operate as planned

The natural gas power plant project of the group company was the first natural gas power plant project that the group has implemented. In order to operate without any problems, to be able to fix machine failures in time, to prevent the impact on electricity sales to the Electricity Generating Authority (EGAT) according to the power purchase agreement, the Group therefore hires external experts to operate and to maintain, by preparing 2 long-term agreements, including Operation and Maintenance Service Agreement (O&M Agreement), to control the operation of the power plant to be normal and solve the problem in a timely manner and Long-term Service Agreement (LTSA), which covers machinery, power generation units, gas turbines, various control systems, procurement of spare parts and parts, equipment maintenance, training for personnel, and other additional tasks.

In the event that the external party is unable to perform the duties as agreed in the contract, the Group may be at risk from operations, which may cause machine failures, or unable to fix or repair the machinery in a timely manner. This may cause the natural gas power plant project to not be able to supply power to the system under the power purchase agreement. If the system cannot be used continuously for more than 15 days, by not being caused by force majeure or being the fault of EGAT. The Group may be at risk of termination of the power purchase agreement, and may affect the Group's revenue and overall performance. In the fiscal year ended 31 December

2021 and 2022, the Group had revenue from the natural gas power plant project in the amount of THB 1,965.24 million and THB 3,042.98 million respectively, accounting for 34.32%, and 43.99% of sales revenue and all of the services, according to the consolidated financial statements of the group respectively.

In order to reduce the above risks, the Group has recruited skilled personnel, a former Senior Executive of the country's largest electricity supplier to be an executive, as well as to hire the engineering team who operates the natural gas power plant projects of the group of companies, and staffs of external service providers, in order to study and develop the personnel of the Group of Companies to have sufficient knowledge and ability to operate in-house in the future. In August 2019, the Group has sent a letter to terminate the operating contract and maintenance thereof, to external experts with the contract expiring on 10 November 2019, to have the engineering team of the group company to operate the machine, and to provide maintenance by oneself. The Group is confident that, the Group has sufficient experience to carry out natural gas power plant projects by itself. Due to in the past, the Group has entered into an agreement with service providers to operate and maintain natural gas power plants, to train the employees of the company, to transfer the technology, including the employees of the company to participate in the machine operation and maintenance of power plants, so that the employees of the company can proceed by themselves.

Licensing Risks and Related Laws

Risk from failure to perform duties, and/or conditions specified in the power purchase agreement

The power plants of the company have the main business in the generation and distribution of electricity and steam. The Group has entered into power purchase agreements in the form of power purchase agreements from Very Small Power Producers (VSPP) and Power Purchase Agreement with Small Private Power Producers (SPP) with PEA and EGAT, respectively. The revenue from electricity distribution to PEA and EGAT accounted for 63.61% and 34.53% of sales and service revenue, according to the Group's consolidated financial statements in 2021. The revenue from electricity distribution to PEA and EGAT accounted for 51.50% and 46.85% of sales and service revenue, according to the Group's consolidated financial statements in 2022.

The power purchase agreements entered into by the Group with PEA and EGAT are standardized contracts. Therefore, certain provisions in the contract may pose a risk to the operation. If the Group is not able to fully comply, the Group may be at risk from the termination of the Power Purchase Agreement, if unable to correct the default in the specified period, or if unable to provide reasonable reasons and evidence.

However, the Group has a team of experienced, knowledgeable and capable in operating power plant businesses. There are processes, procedures, and inspections to prevent such problems. In the past, the operation of the power plants of the Group has never been a problem or practice, or practice that is at risk of termination of the contract. Therefore, the Group believes that it will be able to correctly and completely perform according to the conditions or duties specified in the power purchase agreement.

Risk from failure to comply with waste disposal agreements with Khon Kaen Municipality in timely manner

The Group has a contract for waste disposal with Khon Kaen Municipality for project duration of 20 years from the date of contract signing. There is a condition that the waste must be completely disposed of within 7 years from the date of signing the contract. As of 23 August 2019, the term of the original 20-year project contract will expire

on 17 August 2031. The Group is allowed to extend the period until the due date is 30 September 2034, while the period of disposal of old waste is considered to be extended by the end of September 2023.

At present, the Group has used waste disposal as a fuel material for power generation continuously. However, even though the ALCP3 project requires a large amount of waste to be used in the production process, and the production capacity is able to support the total amount of old and new waste, the Group still has the risk that it may not be able to complete the disposal of old waste as specified in the contract. The contract states that, if the Group is unable to complete the work within the time specified in the contract, and the Khon Kaen Municipality has not terminated the contract, the Group will have to pay a fine to Khon Kaen Municipality for the amount specified. As specified in the contract, amounting to THB 363,857 per day, or approximately THB 132.8 million per year, starting from the contract completion date, or the date that Khon Kaen Municipality extends to the date of completion actual work completes.

In this regard, the amount of the penalty per year as compared to the net profit of the company according to the 2022 consolidated financial statements, which is equal to THB 1,281.43 million, representing 10.36%. However, with the capability and efficiency of the power plant and the group's work experience, the Group believes that it will be able to complete the disposal of old waste according to the time specified in the contract.

Risk from failure to comply with waste disposal agreements with Krabi Municipality in timely manner

The Group has entered into a waste disposal contract with Krabi Municipality. The term of the project contract is 25 years from the date of delivery of the area. There is a condition that the old waste must be disposed of within 10 years.

At present, the Group has continued to dispose of old waste by using it as a fuel feedstock for power generation. And has the capacity to accommodate all volumes of old and new waste But the Group There is still a risk that it may not be able to complete the disposal of old waste as specified in the contract, which if the Group Unable to perform according to the contract or perform the breach of contract Causing the Krabi Municipality to terminate the contract immediately, which, if the Group of Companies Unable to perform according to the contract or perform the breach of contract Causing the Krabi Municipality to immediately terminate the contract

However, with the capability and efficiency of the power plant and the Group's working experience, the Group believes that the old waste can be disposed of within the period specified in the agreement.

Legal Dispute Risk

As of 31 December 2022, 3 indirect subsidiaries of the Group still have 3 significant ongoing lawsuits that may have negative impacts or affect the business of the Group which includes an administrative case in which ABA was sued and the Court was petitioned to revoke the license for Factory Operation on Electricity Generation (Ror.Ngo.4 Permit) of ABA1 Project ("ABA1 Project Case"), an administrative case in which AAA was sued and the Court was petitioned to revoke the license for Factory Operation on Electricity Generation (Ror.Ngo.4 Permit) and the License for Building Construction, Modification, Demolition, Move, or Change of Use as per Section 39 bis of Building Control Act, B.E. 2522 (1979) AAA1 Project ("AAA1 Project Case"), and a civil case in which ACES and ABE were sued to jointly compensate for the alleged infringement according to the Enhancement and Conservation of the National Environmental Quality Act, B.E. 2535 (1992) and the Public Health Act B.E. 2535 (1992) from 2012 to 2020. Such alleged infringement occurred before the Group received the transfer of shares of ACES and ABE from the existing

shareholders (“ACES1-ABE1 Project Case”). As of 31 December 2022, ABA1 Project Case and AAA1 Project Case are under consideration by the Supreme Administrative Court, and ACES1 - ABE1 Project Case is under consideration by the Court of Appeal.

The Legal Team of the Group expresses an opinion that the power plant projects under both ABA1 Project Case and AAA1 Project Case are infrastructure beneficial to the public. In addition, given the relevant facts, laws and evidence of both cases together with the judgment of the Chiang Mai Administrative Court regarding the ABA1 Project Case in which ABA won the case, and the judgment of the Rayong Administrative Court regarding AAA1 Project Case in which AAA won the case, the Group is likely to win the case in the Supreme Administrative Court for both ABA1 Project and AAA1 Project. As for ACES1-ABE1 Project Case, since the alleged infringement occurred before the Group received the transfer of shares of ACES and ABE from the existing shareholders, although the Court of First Instance (Buriram Provincial Court) judged that the project owner's subsidiary would jointly pay damages in the amount of 34,160,000 baht. However, from the assessment, the project owner's subsidiary would have a chance to win the case in the Court of Appeal and will not be liable for the damages. according to the indictment.

The damage that may occur provided that the Group lost the case for ABA1 Project Case and/or AAA1 Project Case would cause the licenses necessary to conduct the business of both projects, owned by indirect subsidiaries, to be revoked and, as a result, ABA1 Project and/or AAA1 Project may not be able to continue the power generation business. The damage that may occur provided that the Group lost the case for ACES1-ABE1 Project Case, would cause indirect subsidiary owning the project to pay compensation according to the aforementioned judgment, and affect the overall performance of the Group. For the fiscal year ended December 31, 2022, the Group's total assets of 20,071.14 million baht, total revenue from sales and services of 6,917.01 million baht and total gross profit of 1,872.68 million baht while ABA, AAA, ACES and ABE have total assets of 811.76 million baht, 4,819.08 million baht, 570.24 million baht and 448.04 million baht, accounting for 4.04%, 24.00%, 2.84% and 2.43% respectively, and income from sales of electricity from ABA, AAA, ACES and ABE in the total amount of 285.81 million baht, 3,042.98 million baht, 204.66 million baht and 50.88 million baht, accounting for 4.13%, 43.99%, 2.96% and 6.48%. The total gross profit (loss) were 93.94 million baht, 573.47 million baht, 17.08 million baht, and (48.33) million baht, accounting for 5.02%, 30.62%, 0.91%, and (2.58%) respectively.

Risk from the inability to enter into power purchase agreements for electricity generating projects from renewable energy in the form of SPP Hybrid Firm within the specified time frame

On 14 December 2017, the Group was selected as the operator of 4 projects of electricity generating from renewable energy in the form of SPP Hybrid Firm announced by the Office of the Energy Regulatory Commission (OERC), namely SPP Nabon Power Plant Project 1, SPP Nabon Power Plant Project 2, SPP Ranong Power Plant Project, and SPP Khlong Khlung Power Plant Project, all of which have a total installed capacity of 93 megawatts and the maximum amount of electricity offered for sale of 76.31 megawatts. The Group was to sign a power purchase agreement with the Electricity Generating Authority of Thailand (EGAT) by 13 December 2019 and commence the commercial operation by 31 December 2021.

The selected persons must complete the work prior to the signing of the Power Purchase Agreement with EGAT within a specified period of time and the opinions of public and stakeholders must be heard, according to the Enhancement and Conservation of the National Environmental Quality Act or the ERC regulations on hearing

opinions, as the case may be. The selected persons must also be ready in terms of land and technology, and report the approval result together with the IEE report or the EIA report or the approval result together with the CoP report to EGAT at least 5 business days in advance before signing the Power Purchase Agreement. Before the commercial operation with EGAT, they must place a collateral for the agreement of 8 million baht per selected megawatt offered for sale.

On 30 November 2020, the Group's date of signing of Power Purchase Agreements for all 4 projects from the ERC was extended from by 13 December 2019 to by 22 March 2021. The scheduled commercial operation date was also extended from within 2021 to within 2022. The owners of SPP Nabon Power Plant Project 1, the SPP Nabon Power Plant Project 2, and the SPP Khlong Khlung Project have already signed Power Purchase Agreements with EGAT within the aforementioned deadline. However, the signing for SPP Ranong Power Plant Project is still pending due to unexpected events and a lawsuit was filed in the Central Administrative Court requesting an extension of the date of signing the Power Purchase Agreement and the scheduled commercial operation date in line with the period of the unexpected events. The Central Administrative Court issued a temporary injunction order to suspend the forfeiture of the collateral for the submission of the offer to sell electricity until the Court had a judgment or an order otherwise. And as of 31 December 2022, the case is under consideration of the Central Administrative Court.

Risk from the power generation from renewable energy using the SPP Hybrid Firm Nabon 1 ("Nabon 1 SPP Power Plant Project") and the SPP Hybrid Firm Renewable Energy Project Nabon 2 ("Nabon 2 SPP Power Plant Project") cannot further develop and operate

On 22 February 2021, the Environmental Impact Assessment Reports ("EIA Report") of the Nabon SPP Power Plant Project 1 and the Nabon SPP Power Plant Project 2 were approved by a Committee of Experts of the Environmental Impact Assessment Report ("Committee of Experts"). Subsequently, the subsidiaries owning the Nabon SPP Power Plant Project 1 and the Nabon SPP Power Plant Project 2 entered into a Power Purchase Agreement with the Electricity Generating Authority of Thailand ("EGAT") on 19 March 2021. On 31 December 2021, the subsidiaries owning the projects applied for permission for excavation/filling of land for both projects and was granted such permits. They also applied for construction and other permits, namely a Construction Permit (Aor. 1), a license for Factory Operation on Electricity Generation (Ror.Ngo.4 Permit), and an electricity generation license (Energy business license), to the Energy Regulatory Commission (ERC.). Because all of the requests for such permits are currently under consideration, the subsidiaries owning the projects have proceeded to prepare the area and adjust the project area according to the notification of the excavation/filling of land. The construction of the power plants of both projects has not yet been carried out until the construction permits are obtained. Meanwhile, there appeared complaints about the project implementation, stating that both projects affect the way of life of the surrounding community and environment, and that relevant government agencies should review project approvals. The complaints have posed risk to the Group because if relevant government agencies act on such complaints prior to issuing the construction permits to the subsidiaries, the construction of power plants for both projects will be delayed.

The subsidiaries owning both projects have complied with the relevant laws, rules, regulations, notifications, and procedures, as well as having obtaining all the necessary licenses and permits prior to the construction of the project. That is, they have selected the project location in accordance with the Town Planning Act. They have

inspected the connection point of the electricity grid system with the provincial and metropolitan electricity authorities and have been selected as eligible operators of the projects by the Energy Regulatory Commission (ERC), which demonstrates that they have been authorized by the relevant agencies to use the land as the project site. In addition, the project owners have hired independent persons who are legally licensed and registered with the Office of Natural Resources and Environmental Policy and Planning (ONEP) to formulate the EIA report for impartiality. The EIA report has established theoretically-appropriate preventive measures covering all concerns and target groups, including those of the complainants. The Committee of Experts therefore resolved to approve the EIA report of both projects. It can be seen that the EIA report has been considered and approved in accordance with the legal procedures, and the subsidiaries owning the projects have strictly complied with the measures set out in EIA report, which cover the concerns of the complainants. As a result, the EIA report of the two projects cannot be revoked. In addition, the subsidiaries owning the projects have continued to engage in community relations and encourage engagement activities. They have also cooperated with relevant government agencies to organize activities or build community engagement with the projects such as proposing to establish a working group to monitor environmental impacts to ensure the projects comply with the mitigation and monitoring measures, taking complaints and ruling out complaints, and ensuring transparency in project environmental management which is currently under consideration by the relevant departments.

However, the project owner subsidiary of both projects considered that the fact that the Company has not received a license for the energy industry operation, since the date of application for permission was a continuous period of more than 12 months and there was no definite date when it would be received. It was a force majeure event that was not caused by the fault of the project owner of both projects. Therefore, on November 21, 2022, the project owner of both projects sent a letter of termination of the power purchase agreements of both projects to EGAT. As a contracting party which is the exercise of the right to terminate the contract as specified in the power purchase agreement, and as of December 31, 2022, the case of exercising the right to terminate the power purchase agreement of both projects is pending consideration by EGAT.

Risk of Future Project Delay

The Group may be at risk from project development delays, which may be caused by many reasons. For example, the delay of the government's licensing process, the delay from the preparation of the EIA report, the delay in construction of building, and the delay in installation of machinery and equipment, etc. In the past The Group had delayed projects due to the issuance of factory licenses. (Ror.Ngo.4 Permit) and delays in the process of preparing an environmental report, as it took more time to understand the community members. Both events resulted in the Group not being able to start the construction and distribution of commercially available electricity in time for the Power Purchase Agreement (SCOD).

The Group has established guidelines for prevention and reduction of risks that may affect future project delays, by assigning the Community Relations Department (CSR/GRM) to request important licenses related to the project development, along with site planning to provide knowledge and understanding, and to create relationships with neighboring communities, to complete the EIA report preparation according to the specified timeframe. Although there has never been a delay in the construction and installation of machinery in the past, the Group has a policy to select competent contractors, in order to reduce the possibility of delays from construction, and/or to install machinery and equipment. The Group considers reliability, expertise, and past work experiences, to ensure that

contractors can construct and install machinery and equipment for the power plant projects, in accordance with the agreed standards completed within the specified time.

Risk from not receiving a Power Purchase Agreements back for projects whose Power Purchase Agreements were terminated and are in the process of requesting for their return

Prior to 31 December 2022, the Power Purchase Agreements of 9 biomass power plant projects of the Group were terminated by the Provincial Electricity Authority. They are currently in the process of return. The Group has filed a dispute against the Provincial Electricity Authority (PEA) in the Administrative Court and the arbitrator to request for consideration to cancel the termination of the Power Purchase Agreements and return them to the Group. The Group filed a dispute in the Central Administrative Court for the Sisaket Biomass Power Plant Project, and disputes to the arbitral tribunal for 8 VSPP biomass power plants projects.

The progress of the consideration to cancel the termination of the PPAs and return them to the Group as at 31 December 2022 is as follows:

a) Sisaket Biomass Power Plant Project is still under the consideration by the Supreme Administrative Court. Therefore, there is a risk that the Power Purchase Agreement may not be returned to the Group, which would cause the operations of the Group to not meet the specified objectives and may affect its operations in the future. However, on 3 April 2019, the indirect subsidiary owning the project sent a letter to PEA to negotiate and settle the dispute under the Power Purchase Agreement. PEA then replied in a letter specifying the conditions and negotiation criteria. The said indirect subsidiary had complied with the aforementioned conditions and criteria, and was in the process of negotiation. After that, on 9 June 2020, PEA sent a letter notifying the termination of the negotiations because it had to review the conditions, criteria, and negotiation process in order to clarify its operation. As of 31 December 2022, the case was still under consideration by the Supreme Administrative Court.

b) The arbitral tribunal had an arbitral award for PEA to return the Power Purchase Agreements to the Group as well as extending the first scheduled commercial operation date, and for PEA to change or amend the agreements from Adder to FiT according to the award dated 21 June 2019 for 4 VSPP biomass power plant projects and according to the award on 19 July 2019 for the other for 4 VSPP biomass power plant projects, 8 projects in total.

Subsequently, after the Arbitral Tribunal issued a verdict to PEA to return the electricity purchase agreement to the Group of the total of 8 projects, the Group considered that the 8 arbitrators had misrepresent the name of the FiT announcement. The name of the correct announcement is 2015 FiT Announcement, which is consistent with the rationale and evidence of the case. In addition, the Group has already submitted a request to change the contract in accordance with the 2015 FiT Announcement, but PEA has wrongfully terminated the power purchase agreement. The Group was not able to change the contract in accordance with the 2015 FiT Announcement at that time. For this reason, the Group considers that PEA has to return the FiT power purchase agreement in accordance with the 2015 FiT Announcement to the project owner.

The Company Group and PEA have negotiated for PEA to comply with the award of the arbitral tribunal. On April 5, 2022, the Company Group filed a petition with the Central Administrative Court requesting the enforcement of the arbitral award. Currently, it is under the consideration of the Central Administrative Court.

Risk of possible fines from the power plant machinery installation agreement (EPC), for projects that have terminated the power purchase agreement, and in the process of requesting a refund of electricity purchase

The Group has a biomass power plant project which has been canceled by the Provincial Electricity Authority and is in the process of requesting 9 refunds of the said contract. All 9 projects have entered into contracts for the construction of power plant buildings and machinery installation with related companies since 2012 (companies under the same controlling power as the group companies), namely Advance Energy Development Company Limited ("AED"), responsible for procurement and installation of machinery for biomass power plants. Therefore, there are 9 projects that are at risk, due to inability to comply with the conditions.

The contract of procurement and installation of machinery made with the related company, with the conditions that the Group has to pay to the contract parties in the amount of 10 percent of the contract value, equivalent to a project value of THB 63.30 million within Scheduled time. The said amount paid to the contract party will be a Down Payment, or Maximum Cancellation Fee, as the case may be, depending on whether the group intends to have the contractual party perform the contractual construction. In the past, the Group made a written notice requesting an extension of the contract implementation period, until all relevant licenses were received, and the parties agreed that the contract extension would be extended according to the Group's request. The legal consultant of the company had expressed opinions regarding the extension of the contract performance period on 22 March 2019. It can be concluded that at present the Group has not breached the sales contract and installation of equipment for the entire project. Since the parties have agreed to extend the period of the entire contract performance, until the event is in accordance with the conditions regarding the extension and the beginning of the contract for the 8 projects, the terms of the extension, including the beginning of the contract, for the Sisaket Power Plant Project, will result in the amendment of the contract according to the law. At present, the conditions have not yet been fulfilled, the Group therefore has no duty to pay damages, fines, or other expenses which the parties will notify to pay.

After the Group has received acknowledgment of the consideration of the Power Purchase Agreement, if the Group does not return the Power Purchase Agreement, or for any other reason causing the negotiation to terminate the said contract with the parties, the Group may be obliged to pay the fee, to terminate the contract up to THB 63.30 million per project, or to a maximum of THB 506.94 million, from a total of 8 projects, to the contractual parties under the specified conditions, which may have a significant impact on the Group's operating results. In 2022, the Group has a net profit in the consolidated financial statements, amounting to THB 1,281.43 million.

However, the Group has prepared and announced the EPC Contractor hiring policy, which requires the Company to negotiate with AED to achieve a mutual agreement to cancel the EPC contract, after the Group has received back the power purchase agreement.

Other risks associated with business operations

Risk from relying on major shareholders and executives (Songmetta Group)

Songmetta Group has founded the company and its subsidiaries, and are directors and the company's primary management. As of 31 December 2022, Songmetta Group, holds 76.43% of the company's total paid-up shares, with Ms.Jiratha Songmetta (formerly known as Mrs.Siriwan Damnoenchanwanit Songmetta), as a director and chairman of the Executive Committee, which sets policies, as well as being an important part of management, and have built a reputation for the group to be recognized in the industry both domestically and internationally, resulting

in the group having good operating results and continuous growth. If the company loses the majority shareholder and the executive, it may affect the management and operation of the group. However, the company has appointed a board of directors, consisting of a group of people with experience, knowledge, and a variety of capabilities, which are responsible for policy formulation and firm management for continued growth in future. In addition, the Group has restructured its management structure, decentralized the operations and approvals of the company and its subsidiaries, including defining the scope of authority and responsibility of the management based on knowledge, capability, and experience, in order to reduce the risk of this dependency.

In addition, the Group has continued to conduct business transactions with companies that are under the control of the Songmetta Group. For example, the purchase of fuel raw materials, the sale of electricity and steam, the purchase of water for operation and management of power plants, and the purchase of goods and services, related to the construction of power plants. Although such a relationship helps to strengthen the group's business operations in terms of fuel, power generation and distribution, and maintenance, this will help the power plant business of the group to be more stable and efficient, it may also rely on the business of the major shareholder as well. In the past, the Company has always been aware of the problem of relying on the major shareholder group, therefore, it has a policy to conduct transactions with related parties to have the price and conditions according to the market price, and there are guidelines for adjustment. Reduce connected transactions, to prevent problems and reduce the risk of relying on the major shareholder.

Risk from groups of major shareholders that may have conflict of interest

As of 31 December 2022, the Company has Songmetta Group as the company's major shareholder, holding 76.43% of the paid-up capital, and a controlling person in Advance Power Plant Company Limited ("APP"), which operates in the production and distribution of electricity from 1 biomass energy project, with a maximum electricity capacity of 8 MW, at Koh Chan District, Chonburi Province, which is the same business of the Group of Companies. There may be competition, and may cause conflicts of interest with the Group, as well as may have a significant impact on the Group's performance in the future.

However, the APP has not yet started such business, as in the year 2014, the Provincial Electricity Authority, who was the electricity contracting party of the project, terminated the power purchase agreement, but later the APP received the award from the Arbitral Tribunal, according to the red number dispute No. 73/2562, dated 21 June 2019, with a verdict for the PEA to return the power purchase agreement (PPA) to APP. Currently, the APP is in the process of negotiating the details of the contract with PEA, and a group of shareholders of APP have sent a letter notifying the proposal to sell ordinary shares of APP according to the letter of notification, on 28 August 2019, giving the group rights to consider buying shares of APP, according to the purchase price that will be agreed further.

In this regard, the Extraordinary General Meeting of Shareholders No. 1/2019, held on 28 October 2019, passed a resolution approving the purchase of shares of Advance Power Plant Company Limited, from Songmetta Group, which is a connected entity, in the amount of THB 394 million to THB 472 million. The payment and transfer of shares will be scheduled on the same day, within 120 days after the signing date of the share purchase agreement of Advance Power Plant Company Limited, which has a contract to purchase the shares within 6 months, commenced from 28 August 2019 or within 15 days after the date of the Power Purchase Agreement, which has been refunded by PEA by FiT, signed by Advance Power Plant Company Limited and PEA, whichever comes later.

As of 29 November 2018, Songmetta Group, a major shareholder, and/or a director of the company, has signed a statement of non-competing business with ACE, which is a protection against risk from conflicts of interest, between the company and the major shareholder of the company.

(2) Financial Risk

Funding Risk

Risk from the ability to find funds to expand the Group's business

Since the growth of the Group depends on future projects that need to be auctioned to obtain the right to develop the project, entering into the power purchase agreement with the buyer, the construction process, and selling the electricity to the buyer according to Power purchase agreements within the stipulated time, for which each project development requires a large amount of capital. Therefore, the ability to access various funding sources is extremely important.

In the development of power plant projects in the past, the Group used loans from financial institutions as their primary source of funds, which has financial and operational requirements that may restrict access to additional funding sources, and from additional sources, which may affect the opportunity to expand the business in the future, with conditions that must be observed or prohibited, except that it has been approved by the lender. Upon being listed in the stock market, the Group expects more financing options due to having a strong capital base, which will be a key factor in negotiating the terms of existing credit agreements, to reduce limitations that may affect the opportunity for future business expansion. In addition, the Group can also consider additional funding sources, such as issuance of debt, and raising funds through the capital market.

Credit Risk and Credit Terms Compliance

Risk from failure to comply with conditions or terms of credit agreements

As at 31 December 2022, the Group has long-term interest-bearing liabilities of approximately THB 4,645.18 million, which is a long-term loan from a local commercial bank, which provides project loan to subsidiaries.

The above-mentioned liabilities have several covenants and conditions for the Group, as loan applicants, including guarantors, mortgages, and stock pledge (if any), must comply with contracts, financial terms, and business operations.

If the group of companies, which are the applicants of the loan, including the guarantor and the lender, cannot comply with the terms and conditions specified in the credit agreement, it may cause the applicant to default or breach of contract, except if the loan applicant will receive a waiver from the lender. In addition, if any one of the credit agreements entered into by the Group with a commercial bank in that country, a default, or a default is made, may result in default of other credit agreements, under the local commercial banks as well.

However, the Group has determined that all power plant projects must strictly comply with the terms and conditions of the credit agreements, and require the business development department of the company to monitor the performance of the contracts, and report to the executive committee regularly. If there is an event that is not able to comply with the conditions of the credit contract, must notify the lender immediately. If there is an event that will not receive a waiver from the lender, and the lenders have informed the borrowers of the possible breaches of the contract, as well as the time limit for fixing the documents, the said situation may result in the Group having to

immediately repay all credit agreements with the said local commercial bank, which will affect the operating results and the financial status of the group significantly.

Other Financial Risks

Risk from exchange rate fluctuation

The Group is exposed to foreign exchange risk from the operation of the Natural Gas Power Plant Project ("Project AAA1") of subsidiary AAA, with respect to sales revenue, due to one element of the tariff received, will change according to the USD exchange rate, according to the price adjustment formula specified in the power purchase agreement that AAA has with EGAT, and in the cost of natural gas that is Significant projects AAA1 purchased from PTT. According to the natural gas purchase agreement, there will be changes according to the exchange rate change as well, thus resulting in the group having a natural hedge. As for the biomass power plant project and community waste power plant project of the Group, the project is not affected by the fluctuation of exchange rate, due to sales revenue, service, cost of sales, and all expenses are in THB.

However, since the Group has considered that the power purchase agreement of the AAA1 Project is a financial lease. Therefore, the project property has been classified as financial lease receivables, net with financial income awaiting recognition. Revenue from sales of electricity under the power purchase agreement will be revenue from financial lease under the power purchase agreement. Revenue from services under the Power Purchase Agreement as a whole is in sales and service income. However, the calculation of sales revenue has some calculation components in foreign currencies, resulting in the adjustment of the conversion of some monetary assets, under financial lease receivables at the exchange rates at the end of the year, to be in accordance with the Accounting Standard No. 21 regarding the effects of changes in foreign exchange rates. Therefore, the company is exposed to risk from accounting methods, regarding exchange rate fluctuations, and may cause unrealized exchange rate loss.

The Group has been affected by changes in foreign exchange rates, for the financial lease receivables of natural gas power plant projects, which are affected by the interpretation of the Thai Financial Reporting Standards No. 4, regarding the Lease Agreement Assessment, which was recorded as unrealized exchange rate gain in 2021 and 2022 in the amount of THB 147.03 million and THB 49.20 million respectively.

In addition, the Group has a foreign currency risk from the purchase and import of spare parts from abroad for use in the repair and maintenance of machinery. In the year that the construction of the new power plant project, the Group is exposed to foreign exchange risk from the import of machinery for installation in additional power plant projects. In this situation, the Group manages the foreign exchange risk by entering the forward contract to reduce the risk from the fluctuation of the said exchange rate.

Risk from interest rate fluctuations

As of December 31, 2022, the Group had interest-bearing liabilities of Baht 5,074.85 million, most of which were long-term floating-interest liabilities of 4,645.18 million baht or 91.53% of total interest-bearing liabilities. The interest burden is a significant expense of the Group. In 2021 and 2022, the Group has interest expenses of 141.37 million baht and 132.09 million baht or equivalent to 2.47% and 1.91% of revenue from sales and services according to the consolidated financial statements of the group of companies, respectively. In case of interest rate increase, there will cause the operating results of the Group drop.

In this regard, the Group estimates that interest rate risk will not cause damage to the Group, including the fact that the Group may request to change the terms of loans or find new sources of loans, with a low interest burden to regularly replace the original loan source.

(3) Risk that affects the rights or investments of securities holders

Risk from the group of the companies have a major shareholder with more than 50% shares

As of 31 December 2022, Songmetta Group holds 7,777.49 million shares in the company, representing 76.43%, therefore the Songmetta Group can control almost all shareholders' resolutions, whether it is the appointment of directors, or requesting resolutions on other matters that requires the majority of votes from the meeting. Other shareholders may be at risk of not being able to gather votes to check and balance the issues proposed by the major shareholder.

Even though, the Songmetta Group is able to control the majority vote used at the meeting, it is an important resolution required by law, it must be approved by a vote of not less than 3 in 4 of the shareholders who attend the meeting and have the right to vote. Shareholders with vested interests will not have the right to vote on related matters, such as the consideration of entering into connected transactions and the acquisition or disposal of assets, etc. Therefore, minority shareholders are able to check and balance the important matters and matters related to the Songmetta Group, which is the major shareholder group of the group.

(4) Emerging Risk

Cyber Threats and Data Privacy

Given the advancement of technology and online communication that have come to play a more vital role in the business operations, the Group may face with risks involving cyber threats and data privacy, which may lead to unauthorized alteration of information, information leak, or data theft. In order to prevent and reduce such impacts on business operations, management guidelines have been established. The guidelines include planning business operations to be flexible and supportive of the change of technology and improving the work processes to be responsive to the technology that is likely to change in the future. In addition, the Group has assigned its Information Technology Team to keep track of the development and patterns of cyberattacks and regularly assess the performance of its cyber security systems. The team has also been assigned to provide additional data recovery systems when cyber threats occur to support business continuity, encourage personnel to receive training that improves their technological knowledge, and raise the awareness of technology security of the personnel in the organization at all levels.

Risks from the COVID-19 epidemic situation

The epidemic situation of COVID-19 affects the economy and society around the world, including affecting the Company, partners, customers in terms of production and business operations. The Company focus on risk management from the impact of the situation by monitoring situation closely, preparing the business continuity plan to manage with emergency and crisis situations to cover every step of important operation as well as having rehearsal of emergency plan and business continuity management plan including reviewing the emergency plan in order to be able to conduct business continually and efficiently.

In the past year, the Company has implemented a business continuity plan by issuing measures to control the spread and prevent infection from COVID-19, for example, providing and conducting vaccination for employees and their families, a temperature measurement, wearing a mask before entering the office area/factory area, providing hand sanitizer, implementing Work from Home policy by prepared IT systems and cyber security.





3. Driving Business Towards Sustainability

3.1 Sustainability Management Policy and Goals

Sustainability Management Policy



Absolute Clean Energy Public Company Limited ("ACE" or the "Company") and its subsidiaries (collectively referred to the Company and its subsidiaries as the "Company Group") conduct business with a commitment to promote the development of the electricity generation industry to be socially and environmentally responsible. Under the vision of becoming one of the world's leading clean energy power plant operators, ACE moves towards sustainable business operations and recognizes its duties and corporate mission, which plays a role in conducting business to benefit and meet the expectations of stakeholders both inside and outside the organization. This includes communities and vulnerable groups surrounding the power plant, with a focus on engaging and improving quality of life while growing the business.

In order for ACE's sustainability-based actions to be clearly in line with the organization's direction, we need to ensure that ACE's actions are under established sustainability policy to guide the directors, executives, and employees in conjunction with the drive of business operations efficiently in the same direction, including ESG issues regarding environmental, social, and economic and governance.

Sustainability Goals

ACE has set sustainability targets with plans to increase power capacity focused on clean energy plants to provide ACE with a total installed capacity of at least 1,000 megawatts by 2024,

The Company aims to continuously expand the investment in all types of clean energy power plants which are responsible for the environment and community both domestically and internationally, together with the investment in businesses and innovations which are able to relieve or solve Global Warming and Climate Change, as well as to improve the quality of life of farmers who are our partners and communities surrounding the Group's power plants. The Company also aspires to become an organization with net-zero greenhouse gas emissions by 2050, which responds to the SDGs target, Article 7 Affordable and Clean Energy and Article 13 Climate Action.

	<ul style="list-style-type: none">- Increase the proportion of renewable energy mixed with the world's energy consumption- Develop technology for modern and sustainable energy service delivery
	<ul style="list-style-type: none">- Create a low carbon value in the organization leading to a reduction in greenhouse gas emissions to the Net Zero goal- Create environmentally friendly energy to reduce greenhouse gas emissions throughout the organization.

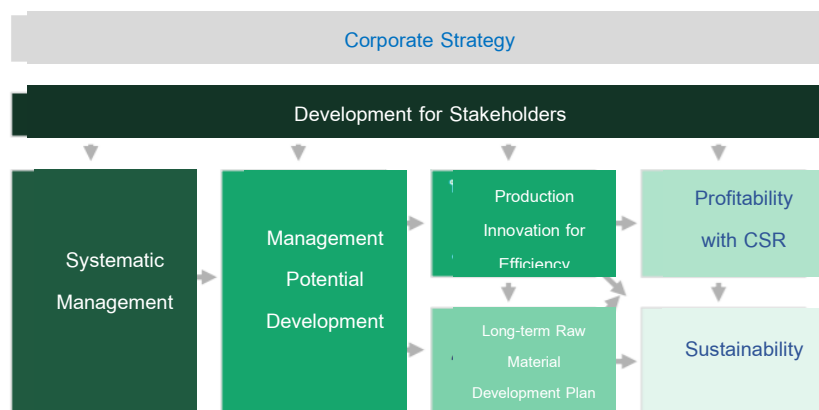
Sustainability Management

In order for ACE's sustainability actions to be effective and achieve the goals, the Sustainability and Risk Management Committee is required to provide recommendations for preparation and/or review of policies, strategies, frameworks, goals, and issues of sustainability and risk management, supervise and encourage sustainability and risk management operations, and push for concrete action as well as engaging in project implementation. Under the framework of sustainability and risk management with internal and external agencies and stakeholders, it covers consultation and promotion so that sustainability and risk management actions take place throughout the organization the same direction, while providing guidance, monitoring, and evaluating performance of management and related levels of operations.

In addition, the Sustainability and Risk Management Committee also has the power to appoint and define authority. They can also specify duties and responsibilities of the sustainability working group and/or risk management working group, as well as supervising the operation of the sustainability working group and/or risk management working group to achieve the specified policies and goals and report the performance to the Board of Directors.

Sustainability Strategy

ACE formulates a sustainability strategy with regard to systematic management with continuity and correlation between the Company's business operations, society, community, and related environmental resources. The guidelines for implementing corporate strategies are as follows:



Sustainability Management Guidelines

With the commitment to building strong growth on a balanced, stable, and sustainable foundation, ACE has established a sustainable management approach based on eco-efficiency business practices. It promotes social and environmentally friendly business development and resource utilization management to maximize efficiency as follows:

- **Reduce the use of resources or raw materials in production and services:** Improving the development of modern production technology and connecting the system inside the power plant to computer equipment and digitally with Internet of Things (IoT) technology to enable more efficient

control and management of production. This would reduce fuel consumption but generate more electricity.

- **Reduce energy consumption in production and services:** Continuous improvement of operations saves investment with a plan to manage and maintain machinery and equipment regularly.
- **Reduce pollution drainage to the environment:** Use environmentally friendly production technology. Water circulation is used to maximize efficiency and for zero discharge, focus on the use of resources or used materials with the 3R Reduce Reuse & Recycle principle to reduce waste from production processes and activities in power plants that must be sent out for disposal. Including Electrostatic precipitators (ESP) traosystem are used for more efficient dust capture systems than others that can trap dust of any size as small as 0.1 micron and Continuous Emission Monitoring System (CEMS) or Pollution Online Monitoring System (POMS) were installed.
- **Promoting the use of renewable resources:** Research and development for new energy crops are conducted and farmers are encouraged to grow mixed energy crops.

Sustainability Performance

ACE has supports sustainable business operationsas follows:

- Research projects for two new energy plants, Sathom grass and Lao grass, are distributed to develop energy plants to be more efficient and diverse, which can reduce the risk of rising energy crops and support farmers to earn more.



- **The zero-emission community waste power plant prototype** is the most efficient waste fuel power plant in Thailand. It is a project designed as a closed community waste power plant. Innovations and technologies are used to burn up to 80 % of high humidity waste (80 percent water and 20 percent waste fuel), and more importantly, it follows zero discharge principle.



In addition, the company is open to listening to suggestions from employees to participate in corporate sustainability activities, the Company has taken the suggestions of employees to use in organizing activities for the community and society, providing operational information and listening to suggestions continuously every quarter, including inviting employees of the company to participate in activities for social and environmental benefits, such as the Eucalyptus seedling promotion project and other volunteer activities

3.2 Sustainability Management in Business Value Chain

3.2.1 ACE Business Value Chain

ACE operates its core business, which is the production and sale of electricity and steam, with key business operations being the supply of raw materials, electricity generation, and electricity delivery to customers, with the main stakeholders linking the ACE value chain divided into 7 groups: 1) shareholders, 2) employees, 3) communities, 4) customers, 5) sub-contractors, 6) fuel suppliers, and 7) government sectors, all of which are related to business operations. as follows:

ACE Value Chain	Characteristics of the Activities	Key Stakeholders and Their Relevance to Activities
Fuel Supply	<p>Each type of ACE fuel supply is as follows:</p> <ul style="list-style-type: none"> - Biomass fuel: Biomass fuel supply can be divided into two main ways: <ul style="list-style-type: none"> 1) Announcement of purchase of biomass fuel from small farmers. 2) Contacting agricultural processing plants directly to negotiate the purchase of agricultural waste from various production procedures. - Community Waste: Enter into waste disposal contracts with agencies such as local governments in the neighborhood of ACE's community waste power plant. - Natural Gas: Enter into a long-term natural gas trading agreement with PTT Public Company Limited. 	<p>Shareholder: Financial cost owners</p> <p>Employees: Workers</p> <p>Community: People who may be affected by the requisition process</p> <p>Fuel suppliers: each type of fuel suppliers</p> <p>Government: Lawmakers/Regulations/Standards</p>
Power Generation	<p>Biomass power plants, community waste power plants, and natural gas power plants use machinery, equipment, and technology to generate electricity by raw material type.</p>	<p>Shareholders: Financial cost owners</p> <p>Employees: Workers</p> <p>Community: Those who may be affected by various activities related to the operation of electricity generation.</p> <p>Subcontractors: Power Plant Construction Contractors. The suppliers supply machinery and equipment. Power Plant Maintenance.</p> <p>Government: Lawmakers/Regulations/Standards</p>

ACE Value Chain	Characteristics of the Activities	Key Stakeholders and Their Relevance to Activities
Delivering Electricity to Customers	ACE's main buyers include the GOP, the EGAT, and industrial customers, with whom ACE delivers electricity under current rules and regulations on the electricity generation and distribution business.	Employees: Workers Community: People who may be affected by business operations Customers: Recipients of goods and services Government: Lawmakers/Regulations/Standards
After-sales Service	In each power plant, performance is assessed as specified in the contract with the customers, and customer satisfaction is assessed to improve the service of the Operation Department to satisfy customers.	Employees: Product and Service Workers/Adjusters Customers: Service recipients
Support Activities - Inventing and developing innovative technologies	ACE focuses on developing innovative clean energy power plants to support a wide range of mixed fuels, as well as researching and developing fast-growing plant varieties to support electricity generation to meet customer needs.	Employees: Operators/Thinkers and Developers of Innovative Technologies Community: People who may be affected by business operations Customer: Service recipients

3.2.2 Stakeholder Participation

ACE has formulated strategies to engage with stakeholders, which will drive the development of The Group's business operations to achieve positive directional changes and reduce the potential negative impact on all stakeholders.

Based on the stakeholder engagement policy framework focused on working with stakeholders to determine ways to benefit all parties, ACE has identified stakeholders who have relationships from activities, products, and services to stakeholders inside and outside the organization, as well as documented lists of stakeholders and conduct periodic reviews to ensure that stakeholder groups are appropriate and relevant to the organization.

3.2.3 Analysis of Stakeholders in the Business Value Chain

As a key factor in driving the business for sustainability, ACE has established relationships with stakeholders according to suitability and opportunity. In 2022, ACE gathered expectations and prepared guidelines for responding to the expectations of each group of stakeholders as follows:

Group of Stakeholders	Guidelines to Promote Participation	Expectantations from Stakeholders	Responding to Stakeholder Expectations
Stakeholders within the Organization			
Shareholders	<ul style="list-style-type: none"> - Annual General Meeting of Shareholders - Communication of the Stock Exchange of Thailand, Email, and Company Website 	<ul style="list-style-type: none"> - Sustainable Growth of The Organization - Transparent, auditable management at every step of the way 	<ul style="list-style-type: none"> - Capacity planning, Targeted execution - Conducting business ethics - Social responsibility

Group of Stakeholders	Guidelines to Promote Participation	Expectantations from Stakeholders	Responding to Stakeholder Expectations
		<ul style="list-style-type: none"> - Revenue, profit, turnover, as targeted - Good corporate image - Create innovations for the most efficient power generation 	<ul style="list-style-type: none"> - Promote innovation Optimize resource utilization and use of technology.
Employees	<ul style="list-style-type: none"> - Executives regularly meet employees. - Communication via email, the Company website, or Group Line of the Company regularly. - Employee Surveys 	<ul style="list-style-type: none"> - Sustainable Growth of the Organization - Job Security - Good welfare care - Good work safety - Good and fair returns and bonuses - Good working environment - Engaging and opening up feedback opportunities - Create innovation and technology to increase work efficiency. 	<ul style="list-style-type: none"> - Training to educate related positions according to the annual training plan. - Training on the Code of Practice, CoP requirements for all employees in the factory and new employees. - Communication via email, company website or Group Line of the Company regularly. - Regular employee surveys - Encourage employees to participate in or propose operational ideas to drive sustainability in the organization, such as organizing energy conservation activities, innovation in separation of waste or unused materials Safety and environment day activities.
External Stakeholders			
Communities	<ul style="list-style-type: none"> - There are community relations agencies at the power plants to meet the community to conduct surveys on opinions, impacts, and the well-being of the community. - There are channels to communicate, comment, and complain about problems. - Communication via Public Relations Board, Company Website 	<ul style="list-style-type: none"> - It operates, monitors and controls the potential impact of the business to be safe for the environemnt and livelihood - Continuous support for elderly activities, traditions, sports, education to the community and the public - There are channels to communicate, comment, and complain about problems 	<ul style="list-style-type: none"> - Environmentally managed in accordance with ISO 14001 - There are regular projects, activities, community relations - Organize community meetings to explore opinions and impacts, and community well-being - A committee is appointed together with the community. - Give the community an opportunity to visit the power plant

Group of Stakeholders	Guidelines to Promote Participation	Expectantations from Stakeholders	Responding to Stakeholder Expectations
		<ul style="list-style-type: none"> - There is promotion, job creation, and career building with sustainable Income - Quality of life and well-being - There is an electricity development fund that is constantly allocated - Create innovations and electricity generation technologies that reduce impacts on communities and the environment 	<ul style="list-style-type: none"> - Provide communication channels for commenting and complaining of problems - Communication via public relations board, company website regularly - Increase research and development in optimizing resource utilization and technology utilization. With clean and environmentally friendly industrial processes
Customers	<ul style="list-style-type: none"> - Communication via email or the Company's website 	<ul style="list-style-type: none"> - Receive electricity supplied as promised - There are channels to communicate, comment, and complain about problems - Provide innovations and technologies for continuous and stable power generation 	<ul style="list-style-type: none"> - Control electricity generation to meet the target. - Regular communication via email or the Company's website
Subcontractors	<ul style="list-style-type: none"> - Polls 	<ul style="list-style-type: none"> - Fair payout - Good welfare care 	<ul style="list-style-type: none"> - Regular polling - Environmentally managed in accordance with ISO 14001
Fuel Suppliers	<ul style="list-style-type: none"> - Communication channels, emails, phone calls, Facebook Line Official, and Application 	<ul style="list-style-type: none"> - Fast delivery - Fair payout - Good welfare care 	<ul style="list-style-type: none"> - There are clear and accountable procurement policy and procedures. - Define clear delivery procedures. - The machine to deliver the goods is ready at all times. - There's a drinking water dispenser for the fuel supplier in case of delivery to the Company - There is a market incentive when they can supply fuel on target.
Public Sector	<ul style="list-style-type: none"> - Meetings, seminars and trainings on occasion - Operations based on government activities 	<ul style="list-style-type: none"> - Providing accurate information and reports to comply with the law 	<ul style="list-style-type: none"> - Environmentally managed in accordance with ISO 14001 - Regular projects, activities, and community relations.

Group of Stakeholders	Guidelines to Promote Participation	Expectantations from Stakeholders	Responding to Stakeholder Expectations
	<ul style="list-style-type: none"> - Continuous participation in other formal and informal activities. 	<ul style="list-style-type: none"> - Promoting, maintaining and developing local areas in a balanced manner. - Supporting government activities - Focus on innovation and technology for electricity generation using clean energy. and create electricity stability for the country 	<ul style="list-style-type: none"> - Support the implementation of government activities on occasion - Increase research and development in optimizing resource utilization and technology utilization, with clean and environmentally friendly industrial processes

From the details mentioned above, it has been used to analyze sustainability issues that the Company should pay attention to and manage effectively, to support the business to grow in the long run. By evaluating important issues and prioritizing them, there are processes as follows.

Identifying Key Sustainability Materiality Issues and Prioritization

The process of identifying the key sustainability materiality issues would considers both internal and external factors related to business operations as well as expectations of stakeholders Including collecting information from international sustainability experts such as the Global Reporting Initiative Standards (GRI Standards), Global Trends, the Committee on Sustainability Accounting Standards. (Sustainability Accounting Standards Board: SASB), including other important issues in the same industry or related industries. The main issues include issues in economic and corporate governance dimension, environmental dimension and social dimension. The key sustainability materiality issues related to the business context were screened and prioritize each issue through the evaluation of stakeholder interviews.

Certification of the Results of Materiality Assessment in Sustainability Issues

After identifying the key sustainability materiality issues that could have important impacts to the organization and stakeholders and prioritizing the sustainability materiality issues completed. These results were presented to the directors and the Chief Executive Officer to review and approve the results of the assessment of sustainability materiality issues.

Assessment results of Key Sustainability Materiality Issues

The company has initiated an assessment of the materiality issues that are important to the stakeholders and the Company's business operations that may have an impact on the economy, environment and society in 2021, and the assessment has been reviewed in 2022, in summary, there are 20 important issues as follows:

Economic and Corporate Governance Dimension

- 1) Operational Excellence, Availability & Reliability, Electricity Generation, Financial Performance
- 2) Investment & Business Opportunities in Renewable Energy

- 3) Innovation and Digitalization
- 4) Business Model & Growth, Economic Resilience & Development
- 5) Risk and Crisis Management
- 6) Corporate Governance, Code of Conduct & Business Ethics
- 7) Supply Chain Management
- 8) Cybersecurity & Data Privacy Protection

Environmental Dimension

- 9) Climate Change & GHG Emissions
- 10) Eco-Efficiency and Resource Utilization Management, Energy Management
- 11) Water and Wastewater Management
- 12) Waste Management
- 13) Environmental Management System, Biodiversity
- 14) Air Quality & Pollution

Social Dimension

- 15) Human Capital Development, Talent Attraction & Retention
- 16) Community Relations, Corporate Citizenship & CSR, Social License to Operate
- 17) Stakeholder Engagement
- 18) Employee & Workforce Well-being, Labor Practice & Management
- 19) Occupational Health & Safety
- 20) Human Rights

3.2.4 Supply Chain Management

Importance

ACE values supply chain management as it optimizes operations and ensures transparency and fairness in the procurement process, while also reducing risks that may arise from partner actions which could affect business operations. There are also quality control of raw materials used as power generation fuel, partner services, and evaluation of the performance of key partners.

Goals and Performance

Goals	Performance
Key partners must assess themselves as responsible operators in the for the environment, society, and good governance.	100% complete

Management Approach

Partner Management Overview

ACE has established a procurement policy to ensure that procurement is in accordance with good corporate governance that does not cause the transfer of interests and takes into account all stakeholders. In addition, in order to ensure the efficient procurement of the Company and clarity on implementation at both the management and operational levels, ACE prioritizes its partners according to the importance of driving the business forward, which is divided into four categories:

Type 1: Partners related to the development of power plant projects such as EPC contractor, procurement of machinery and equipment.

Type 2: Partners related to purchasing raw materials for electricity generation fuel, including biomass fuel, community waste, and natural gas.

Type 3: Operation and Maintenance Partners

Type 4: General Merchandising and Service Partners

Supplier Screening

The ACE partner selection process adheres to partners competing on equal data and selects partners with fairness under the criteria for evaluating and selecting the Company's partners and subsidiaries. In addition, it has provided a reasonable and fair form of contract to all parties and a monitoring system to ensure that the terms of the contract are fully fulfilled and prevent fraud and misconduct at all stages of the procurement process. The Company and its subsidiaries purchase products from business partners in accordance with trade conditions. It strictly complies with contracts with trade partners to keep the information of the partners confidential and will not abuse such information.

ACE has a process of evaluating the potential and screening of qualifications for existing and new partners, as well as forming an approved suppliers list to ensure that partners who can deliver effective products and services that meet their needs and can be long-term business partners, which will strengthen the capacity of sustainable business operations. The criteria for consideration are as follows:

- Products and services meet certain standards and qualifications.
- The prices and conditions offered by partners are market prices and normal conditions based on acceptable trade in the market.
- Goods and services can be delivered at the required time and quantity.
- No history of abandoning the work of the Company and its subsidiaries, or being delisted from the Approved Suppliers List.
- Not being an illegal business operator or lacking unethical conduct or behaving dishonestly in bidding or discouraging/obstructing fair price competition or behavior that damages ACE's business operations.
- Complying with the requirements, regulations, or laws on the environment as specified by the relevant authorities.
- Partners can assess the Company and The Company will review the assessment.

Partner Performance Audit

ACE requires a quality assessment of partners listed in the Approved Suppliers List by auditing it every 6 months, covering the following topics:

- Product and Service Quality.
- Reputation, reliability, and ability to deliver goods and services at the required time and quantity.
- Price and terms of payment.
- History of goods and service delivery.
- Liaison and assistance cooperation and satisfaction of the Company and its subsidiaries towards goods and services

- Not having been sued or received complaints on social and environmental issues from relevant authorities and surrounding communities.
- Partners can assess the Company and The Company will review the assessment.

Risks Posed by Partners

One of the major risks that affect ACE's business operations is fuel quality and fuel shortages in electricity generation. Therefore, ACE has established guidelines to reduce risks as follows:

Risk Issues	Risk Preventive Practices
Fuel quality risks in electricity generation Biomass Fuel Community Waste natural gas	<ul style="list-style-type: none"> - Develop and improve machines that can use biomass fuel to generate a wide range of electricity. It can effectively combust fuel with a high humidity value of about 65 percent (65 percent of water, 35 percent of biomass content). - Promote knowledge of the management and storage of fuel delivered to power plants to obtain the highest quality fuel. - Develop and improve machines to effectively burn about 80 percent of high humidity waste (80 percent of water, 20 percent of waste). - Specify the properties of natural gas in the natural gas purchase agreement.
Risk of fuel shortages in electricity generation Biomass Fuel Community Waste Natural Gas (Risk of relying on a single natural gas seller)	<ul style="list-style-type: none"> - Select the power plant area by studying the type and amount of fuel in and around the area. To ensure that the power plant area has sufficient fuel and suitable for power plants and save fuel transportation to power plants and group companies. - Enter into long-term contracts to buy bark from related companies to help support biomass fuel adequacy. - Provide a place for storing biomass fuel to be sufficient for consecutive power generation operations for a maximum period of 45 - 120 days. - Always carry out the supply of new waste from other sources. By contracting with public and private agencies for waste disposal to reduce risk and ensure fuel stability so that electricity can be operated throughout the project life. - Enter into a contract to purchase natural gas covering the age of the purchase contract with the customer, in case the partner is unable to deliver the amount of natural gas specified in the contract. Damages must be compensated in case natural gas cannot be delivered as agreed in the contract.
Risk of Violating the Law	<ul style="list-style-type: none"> - The partner must inform the number of workers entering the workforce, and in case of hiring foreign workers, work permit of a foreigner must be legal. - Any action by the partner's operator requires a professional license by law, such as a power plant construction/repair contractor. The document must be presented as evidence to the ACE prior to entering the work, and the license must be renewed correctly.

Activities to promote and develop partners

ACE has been promoting activities to educate farmers and its partners. The power plant's community relations team organizes activities to promote knowledge about the management and storage of raw materials

delivered to the power plant. In order for farmers and factories to receive the best sales prices and power plants to receive the highest quality products. In addition, it has worked with various public and private organizations to tackle the burning of agricultural humus by acquiring agricultural waste and biomass fuels from farmers, which, other than reducing forest fires and air pollution or PM2.5 dust, is also enhancing income for farmers. As a result, the Group will have more sources of biomass fuel and more stability of biomass fuel for use in generating electricity.

3.2.5 Customer Relations Management

Building and maintaining good relationships with customers is one of the key factors of the Group's business operations, as customers are indicators of the success of the Group' business by recognizing the negative impact if the business is flawed in delivering goods and services in accordance with the customer contracts. Effective customer relationship management, coupled with the ability to respond to customer needs at all times and up to date, will therefore help the Group to continuously build and maintain good relationships with customers while increasing customer satisfaction levels with efficient service.

Goals and Performance

Goals	Performance
Deliver electricity to customers in in accordance with the conditions of the contract.	100% complete
Customer complaints are 0.	There are 0 complaints on target.
Customer confidentiality complaints are 0.	There are 0 complaints on target.

Customer Responsibility

The Group is committed to developing services for customer satisfaction and best interests and adhering to treating customers responsibly, with honesty and attentiveness to customers as if they were family members of the Group. The guidelines for customer responsibility are as follows:

- 1) The Group takes into account the quality and efficiency of its services, in addition to developing a quality service management system. The Group also cares about managing occupational health and safety so that customers can receive the highest quality and effective services.
- 2) The Group adheres to fair marketing with a policy of providing customers with accurate information about its services without not distortion, vagueness, or exaggerated advertising, so that customers have accurate and sufficient information to make decisions.
- 3) The Group takes into account the safety of customers and strives to provide customers with quality and safe service in accordance with international safety standards and regulations, as required by law, and to constantly develop and improve the services so that customers are confident in the quality, standards, and safety of the Group's services.
- 4) The Group provides customer relations systems to communicate with customers, and receive complaints about the quality of services effectively through various channels to meet the needs of customers quickly.
- 5) The Group will keep customer information confidential and will not use it in any unlawful way.
- 6) The Group provides activities to strengthen customer relationships and among customers themselves and between customers and the Group.

- 7) The Group has a policy for its own power plants which are all certified by the Quality Management System (ISO 9001).

The Group recognizes customer responsibility by maintaining the quality and standard of service, as well as responding to customer needs in order to maintain production standards and focus on ensuring long-term customer satisfaction. Adhering to the contract between the Group and its customers is of the utmost importance. The Group provides accurate information about the services of the Company and its subsidiaries to customers, as well as channels to report problems, complain about improper serviced, or provide advice so that the Company and its subsidiaries can quickly and effectively prevent and resolve issues related to the services.

By evaluating customer satisfaction, the Group has adhered to the power generation goals specified in the contract as a priority to meet the expectations of all customers, it is the Group's commitment to carry out the delivery of goods to customers in full and accurately according to the standards specified in the power distribution contract. In addition, feedback received from customers are taken into account to continuously improve the quality of products and services in business processes, such as improving machinery in the production system.

To achieve the above objectives for effective customer relationship management, the Group has three internal divisions: Business Development Department, Legal Department, and Operations Department, which are responsible for overseeing the production and inspection of the completeness of the delivery of contracted goods. Even during the Covid-19 pandemic, the Group managed to continue to produce and reduce risks that affected the services and delivery of goods to customers without defect. The Group has a coordination system regarding inventory management with an internal auditor to monitor and assess the adequacy of the Group's internal inventory, enabling raw materials to generate sufficient electricity as planned for delivery.

In 2022, the Group was able to deliver electricity to all customers in accordance with the targets set forth., without breach of contract to sell products to customers.

To build confidence that the Group will be able to deliver the goods as planned, the above responsible departments will hold monthly meetings to monitor and evaluate performance to manage production and delivery of the targeted work. If there is any force majeure causing the goods to not be delivered in due course, the Group has channels for communication with customers and operations to identify the cause and make agreements with both parties to resolve the problem, including having a system to check the completeness of the goods in accordance with the contract yearly.

Complaint Channels

The Group has publicly pledged to listen to all complaints equally, with transparency, attentiveness, and fairness to all parties with clear guidelines for receiving and handling complaints. Once the Group has received complaints from the designated channels, there will be a process of reviewing the complaints and grouping complaints on various issues into clear categories to achieve more relevant and effective solutions. This then leads to an analytical process and tracking of the status, updates, or corrections based on the feedback and complaints. The Group will keep the customer's information confidential and will not use it in any unlawful way, including the complainant's name so that such a person will not be affected. In 2021, there were no complaints from customers.

Protecting customers' personal information

The Group has established a "Confidentiality Policy of the Company and Its Customers", which establishes the practice of confidentiality of customer information and the practice of using information received from customers.

Channels for contacting and receiving complaints

Contact Channels	Details
Telephone	TEL:081-104-8821 (Company) Absolute Clean Energy Public Company Limited
Email	Email: info@ace-energy.co.th
Walk-In	ITF-Tower 140/6, 7th Floor, Silom Road, Suriyawong, Bangrak Bangkok 10500

3.3 Sustainability Management in Environmental Dimensions

Importance

With the intention to fulfil ACE's business obligations, it is not only committed to developing and creating environmentally friendly clean energy technologies while seeking sufficient sources of potential clean energy to meet future needs, but ACE is also committed to becoming an organization that conduct fair business while maintaining social and environmental responsibility and creating value for all stakeholders involved continuously.

3.3.1 Environmental Policy and Practices

The main fuels that ACE uses to generate electricity are divided into three categories: biomass fuel, natural gas, and municipal waste. Therefore, ACE recognizes the importance of natural resources as important raw material, as well as environmental management of its power plants to prevent and address potential environmental impacts, whether it is the impact on air quality or water quality. In order to reflect environmental responsibilities, ACE has established a standard policy of integrated power plant management system to drive business operations in accordance with ACE's commitment to operating clean energy plants with responsibility to the environment and society under good governance.

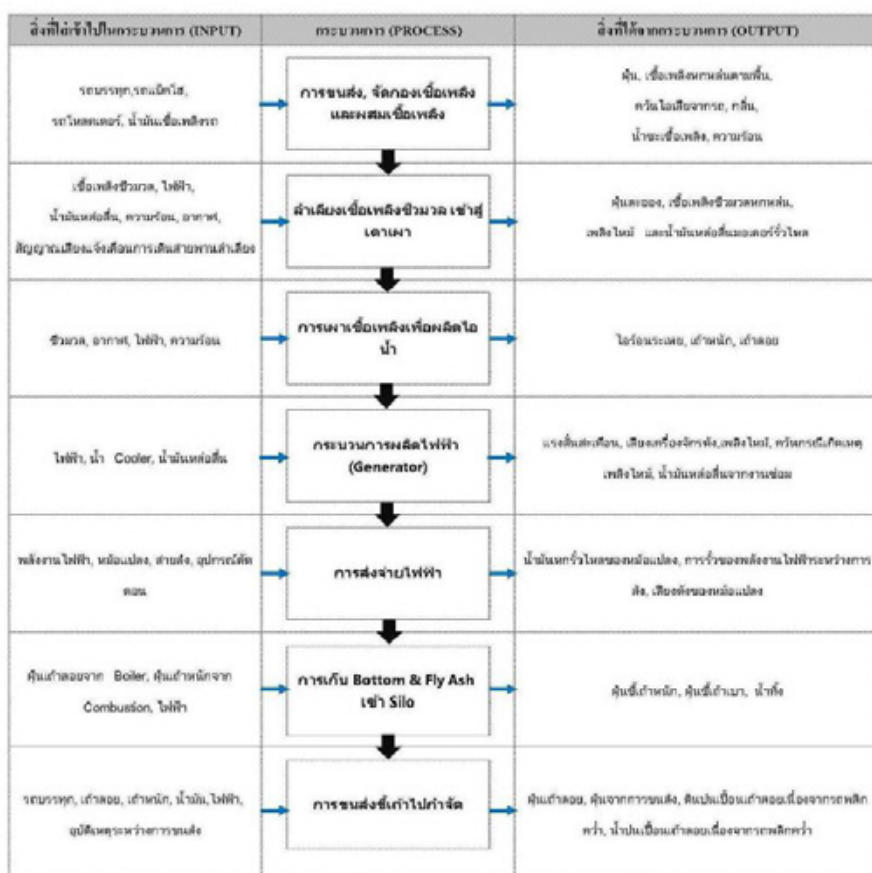
Goal and Performance

Goal	Performance
<u>Goal: Reducing the use of water resources</u> Short term: The power plants in the ACE group must increase the amount of water re-use as a whole for <u>more than 1%</u> of total water consumption in 2021. Long term: The power plants in the ACE group must increase the amount of water re-use as a whole for <u>more than 2%</u> of the total water consumption of the year 2021 by the year 2024	From the water saving campaign activities and the re-use of improved water from the production process to reduce dust in the project that used to water green areas in power plants thus the implementation completed as planned.

Goal	Performance
<p><u>Goal: Reduction of general waste/non-hazardous waste/waste in the project</u></p> <p>Short term: The power plants in the ACE group must reduce general waste/non-hazardous waste in normal operating activities, it should be less than 2% of the amount of general waste/non-hazardous waste. (Excluding ash from the production process) and increase the rate of waste recycling to increase by 2% of the amount of recycling in 2021. The power plants in the ACE Group must reduce hazardous waste in operating activities under normal conditions, it should be lower than 2% of the amount of general waste/non-hazardous waste and increase The rate of waste recycling or energy generation to increase by 2% of the amount of the year 2021.</p> <p>Long term: The power plants in the ACE group must reduce general waste/non-hazardous waste. In normal operating activities, it should be less than 2% of the amount of general waste/non-hazardous waste. There is a promotion to convert ash into soil nourishing materials, not less than 1% of the amount of ash generated in the year of 2021 by 2024 and increase the recycling rate to increase 5% of the amount of recycling in 2021 within the year 2024. The power plants in the ACE group must reduce hazardous waste in operating activities in normal operations to be less than 2% of the amount of general waste / non-hazardous waste and increase the rate of recycling or energy-generating waste to increase by 5% of the amount of the year 2021 within the year 2024.</p>	<p>From the campaign to save resources in the office, Reduce the use of paper and use 2-sided paper, do not print colors if not necessary, choose to buy items that are able to re-fill, discontinue the use of small chemical tanks, return the equipment, try to fix it before throwing it away, provide guidelines for utilizing waste in terms of Circular Economy or Waste to Energy or Renewable Materials (RDF)</p> <p>Burn completely to Unburn 0% Ash is processed into soil improvement materials with approval from the Department of Industrial Works. However, the results of operations are still not in accordance with the plan. Therefore, it is necessary to increase knowledge about the types of waste or unusable materials of power plants. management and utilization</p>
<p><u>Goal Reduction of pollution emissions</u></p> <p>Short-term: The power plants in the ACE Group must reduce emissions down for the year 2022 to be less than 5% of the air quality standards.</p> <p>Long-term: The power plants in the ACE group must reduce emissions to less than 10% of the air quality standards in 2024, compared to the base year (2022)</p>	<p>From the implementation of pollutant emission control to comply with the standard and control to achieve to the specified goals, by maintaining the air treatment system to be able to trap dust to be effective at all times, educating the employees on how to operate and control the combustion completely. The results are in line with the criteria set for the year 2022.</p>

Management Approach

The standard policy framework of ACE's integrated power plant management system focuses on preventing pollution caused by the electricity production process by minimizing environmental impacts as much as possible, while continuously improving and developing procedures continuously and sustainably throughout the value chain. A process flow chart has been created to analyze potential pollution from operations, which will enable protection and control of impacts from the source (shown below). ACE's environmental management meets the requirements outlined in the Environmental Impact Assessment Report and Code of Practice (CoP) report, as well as ISO 14001 as an environmental management framework in accordance with international standards. ACE also focuses on using valuable resources to maintain biodiversity and contribute to ecological preservation, with the Internal System Monitoring Working Group on Occupational Health and Safety Management (ISO45001:2018) primarily responsible for monitoring occupational health and safety operations, including the environment. It uses analyzes data to improve the occupational health and safety and environmental management processes within the organization.



Examples of production process from community solid waste fuel power plant projects

3.3.2 Water Management

The power generation uses raw water for steam generation to generate electricity. It is used to reduce the temperature of machinery and equipment, with most of the raw water in the area derived from natural rainwater retention or from nearby water sources during the water season as authorized by the relevant authorities, within the power plant area. There is enough water retention area to meet the water needs of each project throughout

the year. For some power plants with space restrictions, there cannot be a large water storage area within the power plant, such as Khon Kaen Municipal Solid Waste Power Plant and Krabi Municipal Solid Waste Power Plant that have established raw water contracts with licensed sellers instead.

Currently, each biomass power plant project consumes an average of 1,000 – 1,200 cubic meters of raw water per day. Natural gas power plants use an average of approximately 2,160 cubic meters of raw water per day, and community waste power plant projects use an average of about 1,000 cubic meters of raw water per day. Since their operation commenced, all ACE power plants have never experienced a shortage of raw water, as each power plant monitors, analyzes, and reports water situations in the area and brings the results to set targets and approaches for further water management directions. This includes reducing the risk of shortages of raw water for use in the production process and to reduce the cost of buying raw or industrial water, which prevents conflicts of water use with stakeholders. Each power plant has managed to reduce water consumption with an effective plan for the use of water within the power plant. They circulate water back to the most utilization such as using it in cooling systems, to wash the floor, to clear roads, and to water plants.

3.3.3 Wastewater Management

Wastewater generated from the operation of power plants can be classified as wastewater from office buildings and effluent from the production process.

- Office Building Wastewater: receiving initial treatment with prefabricated septic tanks. After treatment, the water is collected to the wastewater well to be utilized in the power plant area.
- Effluent from the production process is divided into:
 - Drainage from the cooling tower: Once cooled, it is drained into the sewer well before being applied to green space and used to wash the floors inside the power plant area.
 - Effluent from the production process of demineralized water and from the analytical laboratory: It is sent to acid-alkali wells to neutralize the water before being sent to the effluent well to be put to good use.
 - Effluent from floor cleaning and manufacturing machinery: It is effluent from activities such as maintenance or cleaning of equipment machinery, hand wash, emergency shower, water used to clean the operating area and so on, which is sent to the Oil Separator Tank to separate the oil from the water and then to the effluent well to be put to good use.

Based on the above, ACE's power plants collect effluent water from different parts and out it into wastewater wells before treating it with wastewater treatment systems to improve water quality to meet standards. The water quality is measured according to the frequency specified in the EIA report or CoP report. This includes measurement parameters such as PH, totally soluble solids (TDS), suspensions (SS), biochemical oxygen demand (BOD), chemical oxygen demand (COD), oil&grease, and water color before being utilized inside power plants., with zero discharge to the public.

3.3.4 Waste Management

Waste generated by ACE's electrical production process varies by fuel type. It contains three main types of fuels: biomass fuel, community waste, and natural gas. If there is no proper and correct management in accordance with the relevant requirements, it may impact the environment such as soil quality, groundwater quality, and the

health of surrounding communities. In addition, it may cause negative effects on the image of the ACE as well as complaints. The waste generated and the management for each type of waste can be summarized as follows:

Power Plant and Fuel Type	Types of Significant Waste Generated	Management Approaches
Non-hazardous Waste		
<ul style="list-style-type: none"> • Biomass Fuel Power Plants • Community Waste Fuel Power Plants • Natural Gas Fuel Power Plants 	<ul style="list-style-type: none"> • Waste from office buildings/cafeterias includes: <ul style="list-style-type: none"> - General waste such as food waste. - Recycled waste such as glass, paper, metal, and plastic 	<p>Prepare each type of solid waste container with a lid sufficiently close to different points within the area, where the reusable portion of the solids will be utilized for maximum use. The remainder after the sorting will be contacted by the local or private authorities who are allowed to pick them up for further removal.</p>
<ul style="list-style-type: none"> • Biomass fuel plants, bark, wood, fuel, palm, husk, and other fuels (cobs/corn shells, sugarcane leaves/residues, cassava rhizomes, sawdust, wood chips.) • Community Waste Fuel Power Plants 	<ul style="list-style-type: none"> • The fuel-burning ash of the vapor pot is divided into two parts: bottom ash and fly ash. 	<p>Ash management is carried out in accordance with laboratory analysis results as follows:</p> <ul style="list-style-type: none"> • In case of external removal of ash, it is proceeded in line with the Ministry of Industry Declaration in 2005 or the latest effective legislation and must obtain permission from the Department of Industrial Works before it can be taken out of the power plant. • In case of ash landfill in power plant area, landfills are designed in accordance with the results of ash analysis data, such as making concrete ponds to support ash or disposing of landfill areas with leak-proof paving systems within the area of the power plant. Measures have been taken to monitor the impact on groundwater quality by installing a monitoring well to measure the quality of groundwater flowing through the power plant area twice a year <p>However, ACE is currently studying the utilization of ash by the Stabilization and Solidification processes to reduce the amount of waste generated by the electrical production process.</p> <p>For the ash from biomass fuel, ACE has analyzed the composition and properties to be used as a soil conditioner. To lead</p>

Power Plant and Fuel Type	Types of Significant Waste Generated	Management Approaches
		to the development of the utilization of ash in the form of a circular economy to increase the efficiency of ash management. And can return to be a renewable resource in the system of growing fast growing plants or energy crops.
<ul style="list-style-type: none"> • Biomass Fuel Power Plants • Community Waste Fuel Power Plants • Natural Gas Fuel Power Plants 	<ul style="list-style-type: none"> • Sludge from wastewater treatment system 	Collecting and sending it to government agencies for further disposal.
Hazardous Waste		
<ul style="list-style-type: none"> • Biomass Fuel Power Plants • Community Waste Fuel Power Plants - Natural Gas Fuel Power Plants 	<ul style="list-style-type: none"> - Used lubricants from maintenance - Oil contaminated material - Battery deterioration - Used torch batteries - Broken bulb - Chemical bottles - Heat insulation 	Sorting and storing them in tanks in roof-covered buildings, and contacting the authorized authorities of the Department of Industrial Works to remove them. By focusing on hazardous waste management in the form of recycling reuse, or in case of reuse of packaging or to be processed into energy in industrial waste power plants, etc. To aim for zero landfill hazardous waste disposal.

ACE conducts waste management in accordance with the requirements specified in the EIA report and COP report, as well as related laws, to control and determine whether waste generated, both non-hazardous waste and hazardous waste, is disposed of in the appropriate way by legitimate disposal recipients.

3.3.5 Air Pollution

A significant source of air pollution in power plant operations is burning fuel to produce heat. The main pollution generated by combustion depends on the type of fuel. Most of them are dust, sulfur dioxide (SO₂), nitrogen oxides (NO_x), and dioxin from burning community waste. In addition to controlling the quality of the fuel used in combustion to reduce air pollution, the Company has also been able to control the quality of the fuel used in the combustion. The Group dust collectors and waste gas treatment systems have been designed and installed to control the drainage of SO₂, NO_x dust, and dioxin, that occurs before releasing it into the atmosphere. Each power plant measures air quality from the crater. Twice a year, as specified in the EIA report and cop report, the measured values are compared with the benchmarks according to the regulatory authorities' criteria, and set targets for control emission in the short term and long term that are more stringent than the standards, in order to control and reduce air pollution to be within the standard. Therefore, measures to reduce the impact are as follows.

- 1) Implement proper fuel management both humidity and heat values by using the management of each type of fuel storage period properly in order to burn with maximum efficiency and environmentally friendly

- 2) Control the conditions inside the combustion chamber using the appropriate measuring instruments in order to adjust the fuel feed rate and air volume to achieve a complete combustion process.
- 3) If the pollution value is found to be higher, the dust collection system and the exhaust gas treatment system will be powered up to trap more dust
- 4) In the event that the air pollution emissions cannot be reduced, the power of the steam generator will be decreased to reduce the amount of combustion so that the concentration of emitted pollutants does not exceed the control value of air pollution emissions from the plants' chimneys.
- 5) In the event that the steam generator's power is reduced, but the concentration of the released pollution is still higher than the control value, the machine will stop operating for further repairs.
- 6) Use technology to control or treat air pollution from burning solid fuel as semi-dry. Semi-Dry with lime spray and activated carbon are used to remove sulfur dioxide (SO₂), hydrogen chloride (HCl), dioxin compounds, and heavy metal. The air filter bag system is used to remove very small particulate matter (it is a system widely used in power plants that burn waste directly).
- 7) Use the SNCR (Selective Non-catalytic Reduction) system or the addition of ammonia into the combustion chamber to remove nitrogen oxides (NO_x).
- 8) Install Continuous Emission Monitoring System (CEMS) or Pollution Online Monitoring System (POMS) to monitor air quality before releasing it outside the plants and connect to the systems of the Department of Industrial Works and pollution control. ACE has installed Continuous Emission Monitoring System (CEMS) in some biomass power plants and have a plan to install CEMS in all plants by 2024.

3.3.6 Biodiversity

ACE has a strong background in the clean energy power plant business, with long-standing experience, providing high technological expertise in biomass fuel power generation, with the invention and development of innovative, environmentally friendly clean energy power plants. However, ACE continues to recognize the importance of biodiversity in power plant locations and surrounding neighborhoods. Therefore, it is committed to protecting ecosystems and biodiversity which is part of the standard policy of integrated power plant management system to provide a framework for joint ecological preservation and preservation of biodiversity in the various power plant operations areas of ACE. There are also community hearings around the power plant before construction, covering ecological and biodiversity issues, and the comments received from this community will be used to determine measures to prevent and address potential impacts. Currently, there are no ACE power plant project sites in the vicinity of Protected Areas and those in Areas of High Biodiversity Value.

However, in ACE's production process, water from nearby water sources is pumped during the water season to be used in the production process, which at this stage can affect various aquatic animals. Therefore, measures have been put in place by installing a grid or net at the mouth of every channel where water is received into the power plant. to prevent young aquatic animals larger than 4.4 millimeters from entering the water intake pipe. There is also an activity to release aquatic species with the community to revitalize the ecosystem and maintain biodiversity.

3.3.7 Chemical and Oil Leakage

In the power plant area, chemicals and oils are stored for production processes and maintenance of machinery and equipment, which may be vulnerable to leakage. However, ACE is focused on preventing leaks, as well as preparing to cope with chemical and oil spills. The Chemical Emergency Response Plan is required to be used as an employee procedure respond to emergencies and cope with chemical spill emergencies, as well as to reduce the impact of emergencies on personnel, property, communities, and the environment. Employees working in chemicals must be trained (On the Job Training) on emergency control in the event of a chemical spill. Contingency plan drills are held annually, and work safety training on chemicals is provided at least once a year.

3.3.8 Violation of Environmental Requirements and Laws

ACE focuses to joint environmental protection and strictly comply with legal regulations to reduce the risk of violations to environmentally related requirements. ACE also focuses on receiving feedback from the communities surrounding the power plants, thereby requiring a complaints process. The complainant can make a complaint verbally, by phone, or fax, and there are responsible officers to investigate, summarize the complaints, and find out the reasons. In 2021, no cases of violation of environmental and safety requirements and laws were found. There have been cases where neighboring communities were concerned about the management of the existing power plants before ACE took over. Once ACE took over the management, actions have been taken to optimize environmental impact prevention and address concerns as follows:

- Management to prevent dust impacts was carried out by improving biomass fuel storage buildings to prevent fuel fluctuations. Repairs of the cover of the entrance and exit of the building was provided. There is also vigil, spraying water mats at the entrance and exit of the fuel pile yard, and a covering of the fuel pile to prevent the dispersal of fuel debris. Dust-proof fence posts have also been renovated and dust-proof netting has been installed in buffer zones on the residential side to reduce community concerns. There is a plan to install anti-dust nets around the fuel storage area. and ash holding area to prevent dust.
- The performance of air pollution treatment systems has been improved and the Continuous Emission Monitoring Systems (CEMs) have been installed.
- Environmental quality measurement has been reported on the website. In the environmental quality inspection round 2/2022, there will be additional air quality measurements for biomass power plants that are equipped with dust nets for the part of total dust (TSP) and dust smaller than 10 microns (PM10). And there is a measurement of dust smaller than 2.5 microns (PM2.5) in additional community areas according to the new legal requirements that have just been added in 2022.
- Organized activities to educate about the production of electricity from biomass fuel. Public relations for the improvement of the air treatment system to enhance understanding and build confidence in the management system of ACE
- There are internal audits in the Environmental and Social Monitoring section to consider the risks of various operations that may have an impact on the environment or the community to contribute to prevention planning, mitigate potential risks with all departments together, such as Safety, Occupational Health, Environment (SHE), Community Relations (CSR) and Production Department (Operation), along with regularly reporting results to senior management on the results of operations.

- Strict implementation of environmental and safety measures, for example, strict reporting on the implementation of the Code of Practice (COP) measures.
- Fully cooperate with government agencies by providing information on the Self Declaration Report, including project details safety report environmental report for government agencies with regulatory duties which can easily monitor and regulate electric power generation and submit complete documents to government agencies

3.3.9 Encouraging Employees to Participate in Environmental Management

In order to ensure continuous and efficient drive of the environmental management system within the organization, ACE encourages employees to participate in environmental management in all areas, including office space or operating areas, with the aim to enhance employees' awareness and strictly comply with environmental regulations. The use of natural resources and energy wisely is promoted, such as reducing water consumption, electricity consumption, and waste sorting activities. The Company also encourages its employees to focus on the environment, realize the values, have a volunteer spirit, be responsible, know how to preserve and develop the environment to stay with the community sustainably in accordance with ACE's 9S Code of Conduct.

3.3.10 Climate Change and Greenhouse Gas Emissions

Importance

ACE is committed to creating value while responding to climate change and reducing environmental pollution. As a leader in renewable and clean energy business, this is in line with the response to government policies and in accordance with the world direction in reducing global warming problems, with development into carbon neutrality (Carbon Neutral), promoting and creating low carbon values in the organization, along with the plan to reduce carbon emissions and able to achieve net zero carbon emissions by the year 2050.

Goals and Performance

Goals	Performance
Set zero carbon emissions goals (Net Zero) by 2050	<p>Purchase of agricultural waste materials at least 1.98 million tons, helping to reduce the burning of agricultural land that causes carbon dioxide emissions and reduce carbon dioxide emissions by generating electricity from renewable energy using biomass fuel up to 365 million kilograms of carbon dioxide equivalent in 2022 (without other activities), representing approximately 60 million kilograms of carbon dioxide equivalent.</p> <p>Currently being promoted eucalyptus plantation, total amount of carbon dioxide absorption up to 905,000 kg of carbon dioxide equivalent.</p>

Climate Change Risk Management

One type of fuel that is important in ACE's electricity generation is biomass fuels derived from a variety of agricultural debris, each of which uses different fuels depending on the area conditions, climate, and economic plants in the vicinity of power plants. Climate change is a major cause of long-term changes in agricultural ecosystems, such as natural disasters in various ways, including droughts, floods, storms, and plant epidemics. This is a significant risk that could be posed by a shortage of biomass fuels for electricity generation, so ACE focuses on slowing global average temperature changes. This is to alleviate the severity of natural disasters as a result of changes in climate conditions as announced in the Sustainability Management Policy and to make such issues a priority in the organization's annual risk assessment process. The relevant authorities are encouraged to apply the risk assessment results in the preparation of annual strategic plans and business plans.

ACE has set guidelines to manage the risks that may result from climate change. Research has been conducted to formulate the appropriate biomass fuel formulations generated by the mixing of each agricultural material in a modest ratio that produces high heat values. This can be done by analyzing the chemical composition of each plant, as well as researching new types of biomass fuels to achieve a variety of fuel types and sustainable fuel stability.

Currently, ACE supports global warming alleviation by establishing the "Reduce Burnd, Increase Revenue" project by accepting the purchase of more than 50 different agricultural waste materials such as rice straw, rice husks, sugarcane leaves, corn plants, and corncobs to reduce burning in fields, sugar cane fields, and corn fields and to use agricultural materials purchased as fuel in biomass power plants located in different regions of the country. ACE works directly with community leaders, government agencies and farmers in order to encourage them to sell agricultural waste to ACE, who buys almost all types of agricultural waste in Thailand at a fair price. By 2022, it has bought about 1.98 million tons of agricultural waste, which has helped reduce the burning of farmland that produces approximately 365 million kilograms of carbon dioxide equivalent emissions. The electricity generation activities by using biomass fuel as fuel (excluding other activities) equivalent to about 60 million kilograms of CO₂ which is currently being promoted eucalyptus plantation that was the amount of carbon dioxide absorption up to 905,000 kg of carbon dioxide equivalent.

3.3.11 Energy Management

ACE requires an in-house energy management to ensure efficient use of energy resources and promote serious and sustainable energy conservation by establishing a working group on energy management within the power plant operation area which has the powers and duties as follows:

- Implementing energy management in accordance with energy conservation policies and energy management methods.
- Coordinating with relevant agencies for cooperation in the implementation of energy conservation policies and organizing methods, energy management, as well as providing training or activities to raise the awareness among personnel.
- Supervising energy management in accordance with energy conservation policies and energy management methods.

- Reporting on energy conservation and management in accordance with energy conservation policy and energy management methods.
- Making recommendations about setting or reviewing energy conservation policies and energy management methods.

As for energy management practices, ACE has adopted auto load control (ALC) systems to control automatic power generation to increase machine efficiency. The system helps to save fuel and reduce unprofitable losses, as well as big data storage for each machine to be analyzed and processed to design and develop efficient machines according to proper use and maintenance period. In addition, there was a modification of energy-efficient lighting lamps and public relations campaigns for employees to jointly save electricity consumption, which, according to data consumption at 16 power plans, showed that in 2022 there was a 5.1% decrease in average electricity consumption compared to 2021 as shown in the following table:

Power Plant	Amount of Electricity Consumed (MW)			Electricity Consumption Change Rate (%)	Electricity Consumption Change Rate (%)
	2020	2021	2022	2021 compared to 2020	2022 compared to 2021
Ban Bueng Power Plant Project ("ACP1")	0.95	0.91	0.83	-4.2%	-8.8%
Phon Thong Power Plant Project ("ACP2")	0.90	0.87	0.94	-3.3%	8.0%
Bo Ploy Power Plant Project ("ACP3")	0.86	0.87	0.83	1.2%	-4.6%
Sri Chiang Mai Power Plant Project ("ALCP1")	0.92	0.92	0.83	0.0%	-9.8%
Sirindhorn Power Plant Project ("ALCP2")	0.81	0.73	0.72	-9.9%	-1.4%
Tani Power Plant Project ("AAPP1")	0.86	0.87	0.80	1.2%	-8.0%
Chokchai Power Plant Project ("AAPP2")	0.87	0.89	0.90	2.3%	1.1%
Inflatable Water Power Plant Project ("AAP1")	0.89	0.95	0.80	6.7%	-15.8%
Thein Power Plant Project ("ABA1")	0.91	0.87	0.85	-4.4%	-2.3%
SPP Power Plant Project, Khanun Island ("AAA1")	3.30	3.30	2.16	0.0%	-34.5%
MSW Khon Kaen Power Plant Project ("ALCP3")	1.17	1.11	1.15	-5.1%	3.6%
Buriram Power Plant Project ("ACES1")	0.93	0.75	0.76	-19.4%	1.3%
Don Mon Power Plant Project ("ABE1")	1.23	1.13	1.35	-8.1%	19.5%
Korat Power Plant Project ("AAE1")	0.76	0.84	0.99	10.5%	17.9%
MSW Krabi Power Plant Project ("ALCP6")	1.03	1.31	1.24	27.2%	-5.3%
Khlung Khlung Power Plant Project ("ACP4")	-	0.96	1.25	N/A	30.2%
Total	16.39	17.28	16.39	-0.4%	-5.1%

3.4 Sustainability Management in Social Dimensions

3.4.1 Corporate Citizenship

The Power Plant Business Operations of the Group began with the awareness of creating concrete value for society in ensuring the energy security of the country. In particular, it is important to see the problems that Thailand suffers from pollution PM2.5, partly due to the burning of agricultural waste that directly affects climate change. The Group can directly bring such waste into the power generation system and generate value back to stakeholders. Therefore, the Group is confident that businesses throughout the supply chain can create concrete contributions and value to society and stakeholders. This will solve the overall problem of the system in the long run.

At the same time, the Group adheres to conducting business with the utmost responsibility by complying with strict laws such as Environmental Impact Assessment (EIA), Initial Environmental Examination Report (IEE), Code of Practice (CoP) of all power plants covering air quality, sound, water resources, transportation, waste and waste management, occupational health, and safety and health so as not to affect the community and surrounding society. However, since complying with the law alone is not enough to sustain business progress, the Group values the participation of the community around the establishment to build trust and engagement because the Group is also part of a good member of the community.

Goals and Performance

Actions	Goals	Performance
Exploring community attitudes towards power plants	The evaluation is at a "good" level.	On target, the average is 86.86 equal to 4.3/5 points (good level).
Complaints relating to The Group's business operations	Complaints are 0.	1 complaint handled in accordance with the process. ¹

The Company defines its Vision, Mission and Strategy with environmental and social responsibility as key elements and creates a "Corporate Social Responsibility (CSR) policy to guide activities in line with the goal of maintaining stable values. It has also set the direction of business for social responsibility for the Board of Directors, executives and employees to use as a clear and in-line operational approach. With awareness of and emphasis on supporting social and community activities, as well as conserving the restoration of ecosystems in a balanced manner, the Company takes into account the potential impact on stakeholders in accordance with transparent and ethical business principles to create a socially responsible corporate culture.

In practice, the Group assigned the Community Relations Department, the division of each power plant, to explore community attitudes and organize activities to meet the needs of the community and promote a positive attitude towards the organization. This is to raise awareness of identity through participation in activities that focus on building participation while improving the quality of life of the communities surrounding the power plants. The purpose is to create a common value between the Group and the community through activities in various areas,

¹ This is a complaint which was made prior to the Company Group acquired the business.

including community engagement, education and culture, job creation and skills development, development of and access to technology, income generating and community economy promoting, and health and social investment.

In each community, a representative or community working group will be announced to be the primary responsible for monitoring community development operations, which include discussions with the community to find expectations, concerns, and prioritize them to form a joint project plan.

In addition, another thing the Group do in parallel with building relationships with external communities is to promote employees to have quality and good conscience. In 2022, the CSR-DIW project was launched to inform employees of community relations activities and encourage them to take part in the activities. As a result, the Group has promoted and pushed the organization to operate under social responsibility in accordance with the ESG (Environment, Social, Governance) framework and has since been committed to helping and developing society. This has brought success and awards of continuous pride, such as awards for promoting industrial plants to be socially and community-responsible. (CSR-DIW), Green Industry Award, Environmental Governance Award and other certificates such as Certificate of Occupational Health Safety Management. In addition, the Group has regularly contributed to the activities of its power plant development fund.

Activities for the benefit of society and the environment in the business process (CSR in Process)

The Impact on society environment and quality of life of people are three key factors of The Group. Import as part of business operations and support business operations by creating shared value between all stakeholders in the value chain. Bringing about the development of social enterprise relationships with the following important operations:

"Reduce Burns, Increase Revenue"

The Group conducts research and development of the model and method of generating renewable energy, including the type of fuel used in production, to reduce reliance on foreign imports of fossil fuels using agricultural waste materials, plantations, or energy crop that encourage farmers to grow in contract farming through guideline "Reduce Burns, Increase Revenue" with farmers in the area surrounding the establishment. The Company has been able to collect and purchase more than 50 seasonal agricultural waste materials and energy crops, such as rice husks, rice straw, tree tips, tree roots, corncobs, palm bunches, eucalyptus trees Acacia family, napier grass, and reed energy crops. The policy of procuring waste materials from various sources is divided into 2 main methods as follows:

1. Announcement to purchase biomass fuels from small pollen on a wider scale. The fuel purchasing department negotiates the terms and prices according to the fuel type and heating and humidity charges as specified by the Group.
2. Contacting the agricultural processing factories directly to negotiate the purchase of agricultural waste generated by various production procedures from the factory owners.

Running a business model like this gives farmers an additional source of income from selling agricultural waste instead of burning them, which normally does not bring any financial value to the farmers, and also utilize the waste. In 2022, the Group purchased 1,982,233.10 tons of agricultural waste, generating more income of over 1,536,730,734 baht for farmers in the area of 13 power plants, which created economic growth for the community and the nation, protected the environment, and reduced waste, greenhouse gas emissions, and PM2.5 dust. This

also helped to solve the problem of forest fires due to the burning of waste materials in the farmer's agricultural plots and the problem of releasing the land to be desolated. In addition to creating national energy security, it also promoted economic growth both at the micro and macro level, environmental protection, quality of life, and the well-being of farmers and rural people at the same time.

Eucalyptus Wood Promotion Project

Although the Group has activities to donate money and supplies to the community, it has sought to reduce actions that make communities rely too heavily on these activities. It seeks to develop a form of activity that benefits quality of life. Therefore, the eucalyptus wood promotion project has been implemented in conjunction with Chaiyo Triple-A Group to provide eucalyptus seedlings from drought-tolerant, disease-resistant, fast-growing cultivars to farmers in 16 areas surrounding the power plant for farmers to plant in the fields, ridge, boundary, canal, rai, end of the field, or unused wasteland, since 2013 until the present.

In 2022, 7,500 plants were planted, which was estimated economically to generate 660,000 Baht for farmers in the surrounding communities. When the tree matures in 5 years and can be sold, the weight of the tree is 80 kg and can be sold at 1,100 baht per ton. In addition to the financial benefits, the Group recognizes environmental benefits in agricultural areas where eucalyptus trees can produce oxygen and absorb carbon dioxide in the air throughout the life of the tree. The benefits of the activities that have been performed are calculated and anticipated as follows:

	Number of Seedlings (Seedlings)	Revenue Generated for farmers (Baht)	Carbon dioxide absorbed by Eucalyptus tree (Tons of carbon dioxide equivalent)
2013	5,000	440,000	603
2014	5,000	440,000	603
2015	5,200	457,600	627
2016	8,000	704,000	965
2017	827,290	72,801,520	99,771
2018	1,811,810	159,439,280	218,504
2019	1,051,000	92,488,000	126,751
2020	487,200	42,873,600	58,756
2021	71,220	6,267,360	8,589
2022	7,500	660,000	905
Total	4,279,200	376,571,360	516,074

The project promoted fast-growing energy plants, as the areas of the community and farmers had not yet been fully utilized, with the loamy soil characteristics, far from natural water sources where crops were limited, resulting in less yield. Therefore, growing eucalyptus trees was a good option because it is a drought-tolerant and energy plant that can be sold to the Group's power plants, not far from the community, with staff to educate and advise, as well as convenient for cutting loads for sale, thus generating additional income and improving the quality of life for the community and creating a sustainable circular economy.

Activities for the Benefit of Society and the Environment Other Than the Business Operation (After Process)

Other than the impact on society, the environment and quality of life of people are now part of the way of doing business. The Group also undertakes projects to create benefits for society and the environment in addition to conducting business as usual. It supports scholarships and teaching materials for students, organizes activities to educate them about dangerous diseases and health threats, provides knowledge about first aid to students and the elderly, provides monthly health checks and exercises for the elderly such as blood pressure measurements for the elderly. It gives blood and blood pressure measurements to bedridden patients and donates survival bags to help flood victims. The Group also participates in volunteer activities to help flood disasters, donates blood with the mobile blood donation, hires and empowers people who need special treatment, participates in local cultural promotion activities in operation such as candle procession and Kathin unity activities. In addition, the Group contributed to society during the Covid-19 pandemic in Thailand by joining forces with executives and volunteer staff to produce more than 2,000 fiberboard beds and delivering them to government agencies, hospitals, field hospitals, and affected communities across the country. The Group also donated bottles of alcohol gel, sanitary masks for the community, and medical equipment such as temperature scanner and automated heart and vital signs monitors to hospitals and nursing homes around ACE's clean energy power plants in 23 provinces across the country. The Group still remains committed to helping Thai people in the fight against the Covid-19 pandemic until the situation is resolved.

Community Attitude Survey Results

In normal circumstances, the goal of community relations is to conduct community relations tasks by doing regular surveys of community attitudes, normally 1 time per month. The results of the survey of the attitudes and needs of communities around the power plants will be taken into account and reviewed to undertake the social activities to determine the project, social activities and measures to prevent and resolve the impact on society and the environment to meet the needs of the community. Activities are also organized to make the community positive towards the organization and raise awareness and recognition through participation in activities to satisfy the community with The Group's operations.

However, due to the coronavirus pandemic, community survey activities for areas are prohibited for the safety of personnel and community members, according to official notices. Community relations continues to conduct activities and assist with agencies to mitigate the impact of the pandemic. However, in areas where community attitudes can be conducted, it was found that community attitudes towards power plants in 2022 averaged 86.86% or 4.3/5 points.

Corporate Social Responsibility

The power plant business is classified as an industry where issues of risk to the community by condition, if not properly managed correctly in accordance with the relevant requirements, can cause environmental impacts on communities such as water pollution and air pollution and can negatively impact community relation, the Group's image, and their acceptance of the project, with complaints. In addition to strict compliance with the law, the Group has guidelines for preventing and minimizing the environmental impact on society as follows:

Measures to Prevent and Minimize Economic Societal and Environmental Impacts	Compliance with Measures
<ul style="list-style-type: none"> Consideration to recruit qualified local people according to the needs of the project. To help local people get a job and maintain community relationships by publicizing people in the community when positions become vacant. 	<ul style="list-style-type: none"> The project is labeled for privatization jobs in nearby communities and considers recruiting local employees first to promote local workers.
<ul style="list-style-type: none"> Establishing measures to restore benefits to local communities, such as supporting local education authorities to improve teaching quality. 	<ul style="list-style-type: none"> The project is carried out by arranging for mass officer relations, human resources, and environmental officers on the ground asking nearby communities for the support they need and participating in community relations activities in order to build good relationships with the communities surrounding the project.
<ul style="list-style-type: none"> Allow the community to visit the factory to relieve anxiety. 	<ul style="list-style-type: none"> Allow the community to visit the factory to relieve anxiety. Due to the Covid-19 pandemic, the project recognizes the safety of employees and individuals visiting the plant, and has suspended activities for third parties to visit at certain times during the severe outbreak, according to the official announcement.
<ul style="list-style-type: none"> Providing policies to enhance quality of life. Support and promote communities or strengthen new careers to encourage sustainable socioeconomic development. 	<ul style="list-style-type: none"> The program requires mass relations officers to conduct meetings with the government to find ways to promote careers for people in the community. However, due to the Covid-19 pandemic, the project recognizes the safety of employees and third parties, and therefore has suspended some meeting activities during this period, according to the official announcement.
<ul style="list-style-type: none"> Channels to receive complaints provided, as well as procedures, timelines for resolving complaints, and those responsible, with a clear plan. In case the issue is not completed, the complainant will be informed of the progress of the resolution every 7 days. 	<ul style="list-style-type: none"> The project has clearly outlined the process of receiving complaints, with the phone number of the staff who are directly responsible. The project will find a solution and fix that problem as soon as possible.
<ul style="list-style-type: none"> Sending project representatives to attend monthly community meetings to listen to opinions, complaints, clarify inquiries, and create an understanding of confidence in the project's environmental management as appropriate. 	<ul style="list-style-type: none"> The project requires public relations officers who are responsible for the project's public relations to attend regular meetings with the community.
<ul style="list-style-type: none"> Providing a person responsible for the public relations work of the project to participate in various public relations activities with the community as well as follow up to receive complaints and annoyances arising from the project. 	<ul style="list-style-type: none"> The project requires public relations officers who are responsible for the project's public relations work by preparing a document on the complaint process and installing a community complaint center as well as having installed a comment box and a phone number for the staff who are directly responsible. The project will find a solution and fix that problem as soon as possible.

In addition, The Group has opened channels for dealing with stakeholders both inside and outside the organization. In 2022, the company group has responded to the complaint from community members in Ban Pho Subdistrict, Mueang Korat District Nakhon Ratchasima Province, which was a concern about black smoke from the accident. The Company systematically recorded the complaint upon receipt and promptly responds to the complaint. In this case, the Company has developed a guideline to increase the efficiency of preventing environmental impacts in handling and preventing such incidents from occurring by improving monitoring of fuel intake and the bag filter treatment system has been improved. And also, develop the system to monitor the results of air quality measurements at the end of the stack that would be able to report results to complainants in a timely manner. All these processes were recorded and followed up after systematic implementation.

Complaint Channels

Channels for dealing with stakeholders inside and outside the organization have been provided with the following details:

Category	Contact Channels
External	<ul style="list-style-type: none"> • https://www.ace-energy.co.th/th/contact-us • info@ace-energy.co.th • 081-104-8821 • Community Feedback Box
Internal	<ul style="list-style-type: none"> • Discussion in meetings • Public Relations Board • Group Line • info@ace-energy.co.th • Feedback Box

3.4.2 Human Resources Management

Human resources are one of the fundamental factors of any business activity of the organization, especially in increasing the value of the business and strengthening the competitiveness of the organization to thrive sustainably. It also supports employees to work at full capacity by encouraging them to develop their skills to become more potent and motivated for long-term engagement with the organization.

For the above reasons, the Group has a human resource management policy which defined as a framework for 6 guidelines, with the Human Resources Department working together with all power plants of the Group to take care of employees at all levels, including

- 1) Respecting the rights of employees in accordance with human rights principles and comply with labor laws.
- 2) Providing a fair employment process and employment conditions, including determination of compensation and consideration of good works under the fair work evaluation process.
- 3) Promoting personnel development by providing training, seminars, and sending personnel to seminars and training related academics to develop knowledge, competence, personnel potential, as well as cultivate a positive attitude, morality, ethics and teamwork for personnel.

- 4) Provide welfare benefits for employees as required by law, such as social security, in addition to those required by law, such as accident insurance, as well as various types of grants to employees, such as scholarships for children and funeral allowances.
- 5) Providing annual health check-up services to personnel at all levels of the Group based on risk factors of the individual's age, gender and working environment.
- 6) Allowing employees to express their opinions or complaints about unfair conduct or wrongdoing in the Group, as well as providing protection to reported employees.

Goals and Performance

Goal	Performance
The number of employees trained to develop their potential according to the criteria specified by the Group is at least 30 percent.	The number of employees trained in 2022 was 30.03 percent out of 609 employees.

Note: Due to the Covid-19 pandemic, the target number of employees trained failed to achieve the goal. However, it was not lower than the requirements of the Department of Skill Development at 30 percent.

Although in 2022 the Covid-19 pandemic remained a challenge in human resource management, the Group was still committed to human resource policies, practices and plans.

Respecting the Rights of Employees in Accordance with Human Rights Principles and Complying with Labor Laws

The Group treat all employees equally, fairly and with appropriate returns, and all employees must have employment contracts where they are informed of employment details such as compensation, working hours, benefits, and other aspects of work until performance evaluation. Disciplinary regulations and termination conditions in accordance with Thailand's labor law are clearly stated in the employment contract, which also protects foreign employees equally.

Capability and Skill Development for Employees

The Group of gives importance to the evaluation of the performance. The development of skills, knowledge, competence, and potential of employees, such as training, seminars and training, provides opportunities thoroughly to all employees and seeks to motivate highly competent employees to remain with the Group to continue to develop the organization. This is also to establish the Company's policy recognition guidelines from the beginning of work and during the workforce such as anti-corruption polic, compliance with relevant laws and regulations, and security and privacy measures.

For human resource management in this area, the Group has a "Human Resource Development and Training Policy", which is analyzed according to the employee's position group. Employee progress plans and job evaluation results from operational to executive level, such as positions of power generation control workers, must be trained in Distributed Control System, which corresponds to the organization's metrics. Trainings have been designed such as on-the-job training, internal and external training, and safety and environmental programs for promoting productivity.

Due to the Covid-19 pandemic, the Department of Skill Development has established guidelines for each organization to conduct employee development of at least 30 percent of its total workforce in 2022. The Company

Training has been conducted for potential development of employees and the number of employees certified by the Department of Skill Development accounted for 31.03 percent, a total of 1,758 hours in 2022, with various courses developed according to the line of work such as management of the use of fuel raw materials, basic machine maintenance procedures, etc.

To contribute to the strong human resource base of this organization, the Group has set key performance indicators (KPIs) for employees at the operational level in connection with business-driven goals such as reducing production costs, delivering the amount of electricity according to the target which is the management of personnel at the business unit level and the operational level together that lead to the opinions from operators. Planning and conducting training to develop employees' potential, such as jointly analyzing with the HR department the causes of performance at the operational level that do not meet the specified goals. This will lead to an analysis of the implementation of the work support plan, such as the Performance Improvement Plan. It also provides quantitative benefits to the Company Group as well. There is a monthly performance appraisal with clearly defined criteria. Employees could acknowledge the KPIs from supervisors directly every beginning of the year. The results were reported annually which the potential of the employees of the Company Group It plays an important role in ensuring that electricity generation from all power plants meets the 100% production delivery target in the past year.

In 2022, the target score for employee engagement was at least 70 percent, with the result of employee engagement assessment accounting for 75 percent. The company is committed to promoting corporate culture in employee behavior as well as being able to maintain the level of engagement with the organization at a consistently good level

3.4.3 Human Rights

Human rights are fundamental rights of everyone which the Group, as a business operator, has a duty to respect and be aware of the risks of business in causing or engaging in human rights violations against those involved, whether it is employees, communities and the surrounding society with respect for human values. It is compulsory to consider equality and equal freedom does not violate fundamental rights and not discriminate in matters of race, nationality, religion, language, skin color, gender, age, education, physical condition or social status.

The Group has therefore established a policy of respect for human rights as part of its social conscience policy and anti-corruption and bribery policy. It always reviewing and update the policy by adhering to the implementation of compliance with laws as a fundamental basis, such as labor laws, in order for the process of respecting human rights to occur in a systematic way and ensure that the business of the Group does not get involved in human rights violations such as child labor and sexual harassment. This is done by the cooperation between integrate departments with responsibilities from different departments, such as the Human Resources Department, Occupational Safety and Health Department, and Community Relations Department. They follow up on and promote surveillance for compliance with human rights requirements by providing participation in expressing opinions and channels for complaints for those who have suffered damage from rights violations arising from the the Group's business operations and take appropriate remedies.

Goals and Performance

Goals	Performance
Preventing child labor in all business units.	Child labor number was 0 with protection since the beginning of recruitment process.
All human rights complaints are dealt with.	Complaints in 2022 was 0.

In addition, the Company has conducted human rights risk assessments in the business, to identify measures to prevent and reduce the impact of human rights risks in the Company's operations. The human rights risk assessment criteria are considered from 2 factors: probability and severity of impact, with the comprehensive human rights coverage, including those who may be affected such as employees, communities, environment, business partners, contractors and customers.

From human rights risk assessment in the Company's operating areas, there are the risks from low to high levels of human rights risks. The company has developed a guideline to control and rehabilitate of human rights risks, which is related to the business operations of the Company.

Respect Employee Rights, Equal Treatment, and No Discrimination

The Group has focused on promoting equality since the employment process, which respects basic human rights on right to work issues. The human resources department offers a wide range of jobs such as engineers, safety and environmental officers, accountants, and human resources workers. Every job posting opens up opportunities for anyone who has the right qualifications and abilities to be considered equally. In addition, in the same process, it prevents the hiring of illegal workers, such as not accepting people under the age of 18 as employees, as required by law. As a result, the Group's business activities are conducted without child labor and forced labor in any way.

While staff are employees of the organization, the Group respects the rights of employees according to human rights principles and complies with labor laws. It provides welfare in various fields for employees as required by law, such as social security, and other than those required by law, such as group insurance provident funds, including contributions or assistance to employees in cases such as marriage, childbirth, illness or death of employees, and cremation in the event of the death of an employee or his/her father, mother, spouse or child

When the employee wants to terminate the contract or if there is a case that causes the Group to terminate the employee's contract, all employees will be treated fairly as specified in the regulations, which they acknowledge from the process of signing employment contracts and are consistent with the labor agreement.

Participation in Representing and Promoting Human Rights Surveillance and Complaint Channels

To encourage the integration of employees, the Group has established a welfare committee representing employees. The welfare committee operates in accordance with the roles, duties, and agendas that are set out. In addition, the Group has organized surveillance of human rights requirements. Employees are involved in comments and provided with channels to complain for those who have been damaged or abused by the Group's business operations, such as the preparation of complaint boxes installed within offices and at all power plants, on which the human resources department constantly follow up. However, there has been no complaint regarding human rights issues in recent years.

In the event of a human rights violation, the Group has a process to deal with complaints. The human resources department is responsible for handling complaints, a commission of inquiry has been set up, and employees are protected to be safe from start to finish, with appropriate remedies provided if necessary.

To ensure that respect for human rights is effective, the Group has been working to build human rights knowledge and raise awareness for its people to follow human rights principles as well.

3.4.4 Occupational Health and Safety

The Group recognizes the health and safety of employees. The surrounding community and all stakeholders are the most important aspects of the power plant establishment, as creating occupational safety and health at work will promote productivity for all stakeholders both inside and outside the organization to work continuously, along with having good hygiene. It is in line with human rights to have a good quality of life and a good working environment. Therefore, the Group is committed to ensuring the highest level of safety and care to build confidence and good image from the strict practices of the organization.

Goals and Performance

Goals	Performance
Zero accident	The number of accidents was 0.
Zero Fire	The number of fires was 0.
Lost Time Accident (LTA): 0 time	The stoppage accident was 0.
Contractor's Lost Time Injury Frequency Rate (LTIFR): 0 time	The frequency was 1 time in the past year.

The Group has established an occupational safety and health management system in accordance with international standards regarding occupational health and safety management systems (ISO 9001, ISO 14001, ISO 45001). It has encouraged employees to operate safely and hygienically in workplaces with a good working environment, established policies on environmental quality and safety, including the Standard Policy of Power Plant Integration Management System to provide a framework for occupational health and safety operations for its power plants, and appointed a working group to monitor internal systems in occupational health and safety management, which is responsible for internal assessments, monitoring defects, and presenting the results to the Executive Meeting for Review. In addition, the Group provides measures to prevent accidents and enhance employees' safety awareness including organizing training and encouraging employees to have good hygiene and maintain the workplace to be hygienic and safe at all times. This is to become an organization with Zero Accident and Zero Fire with an excellent operational system, as well as to prevent and prepare for situations or factors that are risks to safety in the operation process according to the policy. In this regard, the responsible department has a meeting to report to the Occupational Safety, Health, and Environment Committee (CDC) once a month and to monitor the results of corrective actions, with periodical updates of the preventive control measures specified.

In practice, for employees in each power plant, the Group has provided a "Manual on Occupational Safety, Health and Environment" for employees in the business group, including contractors and outsiders who come to work within the area of the Group for the most safety both in normal and emergency situations. Procedures for employees have been established to prevent emergencies and respond to emergencies and alleviate violence to reduce the impact of emergency that may affect personnel, property, community and environment. Plans to

rehabilitate and reduce environmental impacts after the accident have also been formed according to the following measures:

Measures to Prevent and Minimize the Impact on Occupational Health, Safety, and Health Practices	Compliance with Measures
<ul style="list-style-type: none"> Considering determining areas that are vulnerable to project hazards and finding ways to prevent and correct risks in each area. 	<ul style="list-style-type: none"> Measurement plans, monitoring, occupational health, Occupational health, safety and work environment measurements and monitoring plans are prepared. There are a Safety Daily Report, a crane inspection and certification report control, administration of the boiler, Inspection and certification of electrical systems, electrical equipment and electrical system safety audit, and building inspection. This is to check the safety and assess the area at risk so that each department responsible can find ways to prevent and resolve risks in each area.
<ul style="list-style-type: none"> Legal action, occupational health, and safety requirements or other related labor laws include: <ul style="list-style-type: none"> Storage, unloading and transporting chemicals Training and use of firefighting equipment Regulations on working in areas of potential for harm On-site safety checks Training in the use of personal protective equipment Protection against heat and electrical hazards 	<ul style="list-style-type: none"> Work regulation training activities are held such as training courses in occupational safety, health, and work environment for general employees, new employees, and employees working in positions that require expertise, such as working in confined spaces. Initial fire training courses and fire evacuation drills are available.
<ul style="list-style-type: none"> Provide preventive measures and address the health and safety impacts of employees working in contact with waste as follows: <ul style="list-style-type: none"> All employees must wear gloves, nasal coverings, and safety shoes while on duty. All employees are prohibited from smoking indoors. All staff are required to dine and relax in the canteen building where it is provided. 	<ul style="list-style-type: none"> It is required that the staff must wear appropriate PPE equipment. All employees are prohibited from smoking indoors. Set up a rest area for staff.
<ul style="list-style-type: none"> Establishing the Occupational Health and Safety Committee to monitor and oversee safety work as required by law. 	<ul style="list-style-type: none"> Establishing the Occupational Health and Safety Committee and holding monthly meetings of the Occupational Health and Safety Committee.
<ul style="list-style-type: none"> Requiring the installation of various alarm systems in accordance with the Ministerial Regulations and Building Control Act. 	<ul style="list-style-type: none"> Alarm systems including Fire Alarm, Smoke Detector, Installation Maps of Various Alarm Systems and Initial Fire Equipment, as well as Fire Evacuation Maps are installed in accordance with ministerial regulations and building control acts to guide and prepare employees.

Measures to Prevent and Minimize the Impact on Occupational Health, Safety, and Health Practices	Compliance with Measures
<ul style="list-style-type: none"> Providing warning signs in areas that may cause harm to employees. 	<ul style="list-style-type: none"> Warning signs have been placed at vulnerable areas to alert employees, and additional area surveys and safety warnings have been placed.
<ul style="list-style-type: none"> Adequate fire extinguishing equipment is provided in line with the NFPA standard and/or as required by law. 	<ul style="list-style-type: none"> The project has installed fire extinguishers both indoors and outdoors, which are 3 types of fire extinguishers, equipped with cable storage cabinets, fire sprinkler, Sprinkle system at conversion room, and Fire Pump installation.
<ul style="list-style-type: none"> Providing adequate personal protective equipment (PPE) to employees, such as ear cups, earplugs, safety goggles, safety shoes, gloves, and masks. 	<ul style="list-style-type: none"> Providing adequate personal protective equipment (PPE) to employees and to suit the type of work for employees, and personal protective equipment (PPE) is always ordered as a back-up.
<ul style="list-style-type: none"> Providing an emergency action plan within the project area, which may be divided into 3 levels according to the severity of the emergency, and provide coordination channels for assistance from external agencies. The plan requires clear procedures and those responsible. Such planned drills occur at least twice a year. 	<ul style="list-style-type: none"> An emergency action plan has been prepared within the project area by establishing a fire prevention and suppression plan. The structure of the fire suppression unit in the event of a fire and emergency contact number has been provided, and the planned drills occur at least twice a year.
<ul style="list-style-type: none"> Forming firefighting teams with regular practice at least twice a year or as required by law. 	<ul style="list-style-type: none"> Form four firefighting teams, each divided by shift.
<ul style="list-style-type: none"> Establishing a plan to regularly monitor the operating conditions of machine equipment and electrical systems. 	<ul style="list-style-type: none"> Requiring maintenance departments to regularly monitor the operating conditions of machine equipment and electrical systems.
<ul style="list-style-type: none"> Providing employee health check-ups and prepare employee identification books as required by law. 	<ul style="list-style-type: none"> Providing employee health check-ups and preparing employee identification books as required by law.
<ul style="list-style-type: none"> Requiring the shuffling or circulating of the employee's duties in case of any abnormalities in the employee's health. 	<ul style="list-style-type: none"> Work shifts are managed, divided into 4 shifts, for reshuffle or turnover of employee duties.
<ul style="list-style-type: none"> Accident Statistics Record for causes corrective action in each case of an accident is formed. 	<ul style="list-style-type: none"> Accident statistics are collected to analyze the causes of accidents or accidents, and corrective action are taken as soon as possible.
<ul style="list-style-type: none"> Organizing activities to promote safety in the establishment in accordance with the law. 	<ul style="list-style-type: none"> Regularly organizing activities to promote safety within the factory, such as providing safety training in various areas to employees and contractors.
<ul style="list-style-type: none"> Supporting local health authorities in terms of promotion by collecting public health information from local health authorities to analyze public health trends. 	<ul style="list-style-type: none"> The project supports local health agencies in promoting, rehabilitating, preventing, and caring for the health of the community. It also assigns various duties to be performed by public relations officers

From the aforementioned policies and measures, the Group has always been committed to improving the operating environment to be safe and hygienic. It has brought success and awards of pride continuously over the years while continuing to adhere to the practices to date such as:

1. Award for Excellence in Occupational Safety, Health and Work Environment in 2019, Provincial Level from the Department of Labor Protection and Welfare
2. White Factory Award from Department of Labor Protection and Welfare
3. Establishment Award of Disease-free, Safe, and Physical Comfort.
4. Occupational Safety, Health and Work Environment Management Award
5. Small and Medium Risk Group Security Award
6. Safe Enterprise Project Award
7. Outstanding Prototype Establishment Award for Occupational Safety, Health and Work Environment
8. Factory Across Thailand Against Drug Abuse Award
9. Green Industry Level 3 Award
10. Honorable Plaque from the Ministry of Natural Resources and Environment Wastewater Management of Gold Level Pollution Sources 2022

Occupational Safety and Occupational Health Culture

The Group recognizes the creating of a culture of safety and occupational health for employees and contractors. Therefore, it supports the creation of a sustainable culture in the organization. The guidelines for creating a sustainable safety culture are as follows:

1. Risk Assessment
2. Determination of Operational Procedures
3. Educational Training
4. Systematic Determination of Control Indicators for Accident Statistics from Work

In 2022, The Group continued to develop the working environment to increase productivity and reduce continuous losses in the organization, with core values in the implementation of the 9S approach as follows includes:

- 1) **Disentangle:** Removing unwanted items
- 2) **Convenience:** Organizing items with safety in mind.
- 3) **Clean:** Cleaning the work premises, tools, and equipment.
- 4) **Hygiene:** Arranging for hygienic workplace for the health of all workers
- 5) **Habit:** Perform the first 4S to until they become a habit
- 6) **Environment:** Being conscious about the environment, recognizing value, with a volunteering mind ready to preserve and be responsible for developing the environment to remain sustainable with communities, societies, nations.
- 7) **Safety:** When seeing something unsafe, make amendments, signs, or warnings. Providing fire protection and gathering points to make appointments when emergencies occur, and annual fire evacuation workshops are available.
- 8) **Team Developemnt:** Building relationships and developing systems to collaborate effectively for economical and better quality of life

- 9) **Efficiency and Effectiveness:** Moving toward operational efficiency for the common ultimate goal of the organization.

Risk Assessment

In order to manage security risks in accordance with the objectives of the organization, strategy direction, and the impact on the organization's ability to achieve expected results, the Group has established a planning approach to risk management and opportunities related to environmental issues and occupational health and safety issues. The purpose is to cope with strengths, weaknesses, risks, and opportunities in order to achieve the quality goals set continuously by assigning duties and responsibilities to those involved in risk assessment and management. This includes quality and environmental management representatives of each power plants, the procedures for assessing occupational health, safety and health risks, and risk management guidelines as follows:

1. **Risk Identification and Analysis:** Identify risks and opportunities and the impact on each subject.
2. **Risk Assessment:** Once the results have been obtained, plan the preparation of the quality management system and the environmental management and occupational health and safety
3. **Risk Response:** Identify risk level, characteristics of risks, and risk management practices
4. **Risk Monitoring:** Conduct risk monitoring and review at least once a year to improve and enhance risk management practices.

Investigation of Work-related Incidences

The Group has established procedures for investigations, statistical records, and accident reports to determine the causes of accidents from dangerous conditions. This leads to the formulation of guidelines for preventing accidents from recurring, with clear details of those responsible for action. It also encourages those involved to increase their attention to prevention by taking the following steps:

Persons Responsible for the Accident Investigation:

1. Supervisors are responsible for supervising the proper work of workers to ensure it is safe, compliant with factory regulations, and suitable for accident investigation to be effective.
2. Safety officers are directly involved in preventing accidents and enhancing work safety. They must have knowledge and experience in this field to work effectively.

Key principles of the investigation:

1. Investigators must have a clear and concrete common sense.
2. Investigators must have knowledge of the production process and be familiar with the machines, workers, and department environments where accidents occur.
3. Investigators should not be subordinate to the supervisor or a supervisor in the accident department.
4. Investigation must be carried out as soon as the accident occurs or as soon as possible in order to get the facts correctly. Anything that could cause an accident must be investigated thoroughly by a

group or working group to identify the actual cause. An investigation is completed when a report is made and a solution is proposed.

Accident Recording and Reporting:

1. Every accident must be recorded and reported.
2. The report must contain topics related to event analysis, cause investigation, management's revision, and directive recommendations.
3. Reports must be easy to collect or categorized by the nature of the cause or injury or for statistical purposes and other benefits.

In addition, the Group recognizes that safety starts with all employees. Therefore, it instills a culture of work with safety in employees through training such as requiring all employees to undergo safety courses before starting work, and organizing activities in conjunction with the human resources department with safety talks and analyzing or anticipating potential dangers of work. This is to review safe procedures and keep employees vigilant and mindful of every work before starting work which can reduce work accidents. With safety officers and supervisors leading the staff, the activity provides an opportunity for all employees to communicate by taking lessons learned from the accident on the topic of health and safety and hazard detection activities. These activities involve employees in the search for hazards within factory areas and employee work areas, and see if at any point there is danger to the body and property as well as encouraging employees to participate in the development of the plants to be safer.

In this regard, channels that allow employees to report accidents and non-compliant actions have been established. Employees are allowed to express their opinions or complain about unfair conduct or inaccurate practices in the Group. Those who report such matters are protected by the Group.

Employee Participation in Occupational Safety and Health

The Group requires the Safety, Occupational Health and Work Environment Committee to provide consultancy to employees and manage occupational safety and health because employees' health is the most important aspect of the Group. Since all employees are the main force driving the business, the Group has taken steps to promote health and safety to prevent illnesses caused by the work of employees. The Group conducts yearly occupational health checks for employees of all levels whose work has risks by considering the risk factors according to the level, age, gender and working environment of each employee.

Besides, the Group also promotes and supports the well-being and health of all employees. The annual employee health check-up is held. The Group provides training to educate employees and contractors with physical health care, and provides welfare benefits as required by law such as social security and accident insurance, as well as various types of grants to employees such as scholarships for children and funeral allowances.

Vocational Training and Safety for Employees

The Group has formulated safety training plans in each line of work, and provided safety training courses to employees and contractors to raise awareness and understanding of their roles in environmental management and to increase safety for employees and ensure that operations in all areas are carried out in accordance with

safety standards. In 2022, seven occupational health and safety training courses were conducted, with a total of approximately 300 employees participating. The details are as follows:

Occupational Health and Safety and Health Training Courses

Curriculum	Number of Training Sessions	Number of Participants (Contractors Included)
Interpretation ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 Requirement	2	110
Internal Audit ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018	2	110
Environmental Code of Conduct (CoP)	15	300
Basic Security	12	175
Risk-based Safety	4	60
Primary Fire Training	2	156
Fire Evacuation Drill	2	275

Health and Safety Care during the Coronavirus Outbreak

In 2022, the Group had been monitoring the situation of the Covid-19 pandemic continuously and closely. The situation was likely to prolongue and be widespread even more. Therefore, measures were taken to take care of employees and stakeholders in all sectors to control and prevent the potential spread of the Covid-19 pandemic as follows:

1. The Group informed the employees of prevention and self-care in the situation of the Covid-19 pandemic and measures to reduce the risk of spreading infection in the work area via online channels.
2. The Group established the Work from Home policy to be consistent with government measures based on the level of risks in each operational area.
3. The Group set measures to deal with infected people found in operational areas such as providing Lock Up or Bubble & Seal to prevent the spread of thye virus in accordance with the rules and guidelines set by the government.
4. The Group provided both proactive and routine Antigen Test Kit (ATK) screening measures to reduce risks to stakeholders and business operations of the organization.
5. The Group required that its contractors or third parties be tested for the Covid-19 virus with the Antigen Test Kit (ATK) of before entering the operational site. In the event that the test result was positive, they were strictly prohibited from entering the area.





4. Management Discussion and Analysis

4.1 Summary of Financial Information

Summary of the Auditor's Report

Financial Statements	Certified Public Accountant
Consolidated financial statements of the Company and subsidiaries, and separate financial statements of the company For the fiscal year ending December 31, 2020	Mr. Krit Chatchavalwong Certified Public Accountant No. 5016 PricewaterhouseCoopers ABAS Ltd.
Consolidated financial statements of the Company and subsidiaries, and separate financial statements of the company For the fiscal year ending December 31, 2021	
Consolidated financial statements of the Company and subsidiaries, and separate financial statements of the company For the fiscal year ending December 31, 2022	

Financial Statements	Report of Auditor's Comments
Consolidated financial statements of the Company and subsidiary companies, and separate financial statements of the Company For the fiscal year ending December 31, 2020	<ul style="list-style-type: none"> The auditor commented that the consolidated financial statements of the Company and subsidiaries, and the separate financial statements of the Company present fairly, in all material respects, the consolidated and separate financial position of the Group and of the Company as at December 31, 2020, and its consolidated and separate financial performance and its consolidated and separate cash flows for the year then ended on the same day, in accordance with Thai Financial Reporting Standards (TFRSs). The auditor noted that the acquisition of Advance Asia Energy Company Limited (formerly UWC Komen Biomass Company Limited), Advance Bio Energy Company Limited (formerly UWC Amphan Biomass Company Limited) and Satuek Biomass Company Limited is important to the audit and this matter is taken into account in the context of the overall audit of the consolidated and separate financial statements and in the auditor's opinion separately for this.
Consolidated financial statements of the Company and subsidiary companies, and separate financial statements of the Company For the fiscal year ending December 31, 2021	<ul style="list-style-type: none"> The auditor commented that the consolidated financial statements of the Company and subsidiaries, and the separate financial statements of the Company present fairly, in all material respects, the consolidated and separate financial position of the Group and of the Company as at December 31, 2021, and its consolidated and separate financial performance and its consolidated and separate cash flows for the year then ended on the same day, in accordance with Thai Financial Reporting Standards (TFRSs). The auditor noted that it was important to consider the impairment of property, plant and equipment used in the biomass power plant business of two indirect subsidiaries. They had already taken this issue into consideration in auditing the Company consolidated and separate financial statements. However, the auditor did not provide separate opinions on this matter.
Consolidated financial statements of the Company and subsidiary companies, and separate financial statements of the Company For the fiscal year ending December 31, 2022	<ul style="list-style-type: none"> The auditor commented that the consolidated financial statements of the Company and subsidiaries, and the separate financial statements of the Company present fairly, in all material respects, the consolidated and separate financial position of the Group and of the Company as at December 31, 2022, and its consolidated and separate financial performance and its consolidated and separate cash flows for the year then ended on the same day, in accordance with Thai Financial Reporting Standards (TFRSs). The auditor noted that it was important to consider the impairment of property, plant and equipment used in the biomass power plant business of two indirect subsidiaries. They had already taken this issue into consideration in auditing the Company consolidated and separate financial statements. However, the auditor did not provide separate opinions on this matter.

Summary of Financial Statements for the years ended December 31 of 2020, 2021, and 2022

● Statements of Financial Position

Item	Consolidated financial statements as at December 31					
	2020		2021		2022	
	Millions	%	Millions	%	Millions	%
Current assets						
Cash and cash equivalents	482.89	2.94	890.75	4.75	429.10	2.14
Trade and other receivables	829.02	5.04	1,069.04	5.70	1,432.41	7.14
Current Portion of receivable under finance lease (net)	93.31	0.57	110.07	0.59	116.98	0.58
Inventories	402.08	2.45	531.63	2.84	957.40	4.77
Value added tax (net)	33.94	0.21	53.91	0.29	80.14	0.40
Short-term derivative assets	-	-	0.10	-	1.69	0.01
Other current assets	-	-	16.42	0.09	14.41	0.07
Total current assets	1,841.24	11.21	2,671.92	14.26	3,032.13	15.11
Non-current assets						
Restricted deposits at financial institutions	277.60	1.69	435.61	2.32	397.59	1.98
Receivable under financial lease (net)	3,163.02	19.25	3,275.09	17.48	3,283.99	16.36
Investment property (net)	144.85	0.88	210.68	1.12	123.78	0.62
Property, plant, and equipment (net)	9,095.28	55.36	10,261.29	54.75	11,226.82	55.93
Advance payments for constructions and purchase of fixed assets	53.51	0.33	95.18	0.51	276.17	1.37
Right to service under concession arrangement (net)	1,639.54	9.98	1,555.25	8.30	1,470.96	7.33
Right-of-use assets (net)	37.41	0.23	36.58	0.20	68.56	0.34
Intangible assets from power purchase agreement	-	-	16.00	0.09	16.00	0.08
Intangible assets (net)	49.54	0.30	58.48	0.31	59.97	0.30
Deferred tax assets (net)	85.91	0.52	69.57	0.37	55.67	0.28
Other non-current assets	41.79	0.25	54.55	0.29	59.50	0.30
Total non-current assets	14,588.45	88.79	16,068.28	85.74	17,039.01	84.89
Total assets	16,429.69	100.00	18,740.20	100.00	20,071.14	100.00

Item	Consolidated financial statements as at December 31					
	2020		2021		2022	
	Millions	%	Millions	%	Millions	%
Current liabilities						
Short-term loans from financial institutions	265.30	1.61	214.50	1.14	396.20	1.97
Trade and other payables	268.97	1.64	327.80	1.75	508.71	2.53
Current portion of liabilities under finance lease agreements (net)	1.33	0.01	1.66	0.01	3.19	0.02
Current portion of long-term loans from financial institutions(net)	575.29	3.50	702.12	3.75	795.04	3.96
Provision for power plant maintenance under concession arrangement	32.33	0.20	26.61	0.14	-	-
Value added tax (net)	36.34	0.22	42.28	0.23	47.58	0.24
Accrued income tax	11.21	0.07	6.78	0.04	10.21	0.05
Short-term derivative liabilities	12.09	0.07	-	-	0.24	-
Other current liabilities	9.87	0.06	5.44	0.03	7.50	0.04
Total current liabilities	1,212.73	7.38	1,327.19	7.09	1,768.67	8.81
Non-current liabilities						
Provision for power plant maintenance under concession arrangement	0.09	-	5.40	0.03	17.36	0.09
Liabilities under finance lease agreements (net)	24.47	0.15	24.91	0.13	30.28	0.15
Long-term loans from financial institutions	3,081.86	18.76	3,836.94	20.47	3,850.14	19.18
Deferred tax liabilities (net)	109.89	0.67	168.24	0.90	208.71	1.04
Employee benefits obligations	7.81	0.05	8.94	0.05	11.22	0.06
Total non-current liabilities	3,224.12	19.63	4,044.43	21.58	4,117.71	20.52
Total liabilities	4,436.85	27.01	5,371.62	28.67	5,886.38	29.33
Owner's equity						
Authorized share capital	5,488.00		5,488.00		5,488.00	
Issued and fully paid-up share capital	5,088.00	30.97	5,088.00	27.15	5,088.00	25.35
Share Premium	3,896.01	23.71	3,896.01	20.79	3,896.01	19.41
Retained earnings – appropriated – legal reserve	26.03	0.16	45.23	0.24	141.83	0.71
Retained earnings – appropriated – treasury shares reserve	-	-	-	-	268.01	1.34
Retained earnings – unappropriated	3,005.69	18.29	4,308.98	22.99	5,022.19	25.02
Treasury shares	-	-	-	-	(268.01)	(1.34)
Deficit from business combination under common control	(22.89)	(0.14)	(22.89)	(0.12)	(22.89)	(0.11)
Equity attributable to owners of the parent	11,992.84	72.99	13,315.33	71.05	14,125.14	70.38
Non-controlling interests	-	-	53.25	0.28	59.62	0.29
Total equity	11,992.84	72.99	13,368.58	71.33	14,184.76	70.67
Total liabilities and equity	16,429.69	100.00	18,740.20	100.00	20,071.14	100.00

● **Statements of Comprehensive Income**

Statements of comprehensive income	Consolidated financial statements for the year ended December 31					
	2020		2021		2022	
	Millions	%	Millions	%	Millions	%
Income						
Sales of goods and services	4,586.36	78.29	5,315.89	92.82	6,502.07	94.00
Revenue from finance lease under Power Purchase Agreement	401.23	6.85	411.03	7.18	414.94	6.00
Revenue from construction under a concession arrangement	870.55	14.86	-	-	-	-
Total Revenues	5,858.14	100.00	5,726.92	100.00	6,917.01	100.00
Cost of sales and services	(3,196.27)	(54.56)	(3,807.97)	(66.49)	(5,044.33)	(72.93)
Cost of construction under a concession arrangement	(870.54)	(14.86)	-	-	-	-
Gross profit	1,791.33	30.58	1,918.95	33.51	1,872.68	27.07
Net gain on exchange rate	18.77	0.32	155.76	2.73	53.47	0.77
Gain from business acquisition	2.18	0.04	-	-	-	-
Net gain (loss) on forward contracts	(12.09)	(0.21)	12.20	0.21	1.34	0.02
Other income	178.63	3.05	12.75	0.22	16.95	0.25
Profit before expenses	1,978.82	33.78	2,099.66	36.67	1,944.44	28.11
Expenses						
Administrative expenses	(322.25)	(5.50)	(350.35)	(6.12)	(438.16)	(6.33)
Financial costs	(106.32)	(1.82)	(141.37)	(2.47)	(132.09)	(1.91)
Total expenses	(428.57)	(7.32)	(491.72)	(8.59)	(570.25)	(8.24)
Profit before income tax	1,550.25	26.46	1,607.94	28.08	1,374.19	19.87
Tax income (expense)	(42.61)	(0.73)	(102.52)	(1.79)	(92.76)	(1.34)
Profit for the year	1,507.64	25.73	1,505.42	26.29	1,281.43	18.53
Other comprehensive income (expense) for the year	(2.57)	(0.04)	(0.02)	-	(0.66)	(0.01)
Total comprehensive income for the year	1,505.07	25.69	1,505.40	26.29	1,280.77	18.52
Profit (loss) sharing						
Attributable to owners of the parent	1,507.64		1,505.68		1,281.98	
Attributable to non-controlling interests	-		(0.26)		(0.55)	
Total profit (loss) sharing						
Attributable to owners of the parent	1,505.07		1,505.66		1,281.32	
Attributable to non-controlling interests	-		(0.26)		(0.55)	
Basic earnings (loss) per share (baht)	0.15		0.15		0.13	

● **Statements of Cash Flows**

Statements of Cash Flows	Consolidated financial statements for the year ended December 31		
	2020	2021	2022
	Millions	Millions	Millions
Cash flows from operating activities			
Profit before income tax	1,550.25	1,607.94	1,374.19
Adjustment to reconcile profit for cash generated from operations			
Gain from business acquisition	(2.18)	-	-
Unrealized (gain) loss on forward contracts	12.09	(12.20)	(1.34)
Depreciation	494.53	578.05	639.48
Loss on write-off – fixed assets	14.43	11.34	14.66
Reversal of impairment – investment property	-	-	(0.95)
(Reversal of) loss from impairment – damaged fixed assets on fire	(0.80)	-	-
(Reversal of) loss from impairment – property, plant and equipment	-	(1.19)	19.45
Amortization	46.86	89.15	90.06
Unrealized (gain) loss on exchange rate of receivable under financial lease agreement	4.80	(147.03)	(49.20)
(Reversal of) provision for power plant maintenance under concession arrangement	7.19	(0.40)	11.41
Employee benefits obligation	0.93	1.11	1.45
Interest income	(1.53)	(1.66)	(2.10)
Gain on fixed assets disposal	(0.08)	-	(0.13)
Gain on sales of short-term investments	(0.30)	(0.10)	(0.40)
Finance costs – interest expense from loans	93.96	126.39	115.72
Finance costs – amortization of prepaid transaction cost for borrowing	7.29	12.59	13.67
Finance costs – interest expense from liabilities under finance lease agreements	0.88	1.14	1.23
Finance costs – commitment fee	4.19	1.25	1.47
Profits from operating activities before changes in operating assets and liabilities	2,232.51	2,266.38	2,228.67
Changes in working capital			
Trade and other receivables	100.21	(255.63)	(348.43)
Receivable under finance lease	32.18	18.20	33.40
Inventories	(205.15)	(129.56)	(425.76)
Value added tax	(17.27)	(14.03)	(20.93)

Other non-current assets	(3.08)	(0.31)	(1.41)
Trade and other payables	(222.02)	42.01	131.80
Payments for power plant maintenance under a concession arrangement	-	-	(26.06)
Other current liabilities	1.97	(4.42)	2.05
Cash generated from operating activities before interest income and income tax	1,919.35	1,922.64	1,573.33
Interest income received	1.61	1.66	2.08
Income tax paid	(26.44)	(55.65)	(53.26)
Net cash generated from operating activities	1,894.52	1,868.65	1,522.15

Statements of Cash Flow	Consolidated financial statements for the year ended December 31		
	2020	2021	2022
	Millions	Millions	Millions
Cash flows from investing activities			
Cash received from sales of short-term investments	0.30	0.10	0.40
Restricted deposits at financial institutions (increase) decrease	251.25	(158.01)	38.02
Cash received from fixed asset disposal	5.34	-	1.58
Payments for business acquisition	(83.87)	-	-
Payments on debt transfer	(265.56)	-	-
Payments for purchases of investment property	(20.66)	(65.83)	-
Payments for purchases of fixed assets	(655.36)	(1,776.12)	(1,769.32)
Payments for purchases of rights to service under a concession arrangement	-	-	(37.11)
Payments for purchases of intangible assets	(2.45)	(13.80)	(7.26)
Payments for purchases of rights to service under a concession arrangement	(866.53)	-	-
Payment for borrowing cost of rights to service under a concession arrangement	(6.92)	-	-
Net cash used in investing activities	(1,644.46)	(2,013.66)	(1,773.69)

Statements of Cash Flows	Consolidated financial statements for the year ended December 31		
	2020	2021	2022
	Millions	Millions	Millions
Cash flows from financing activities			
Cash received from short-term loans from financial institutions	-	1,718.30	1,486.70
Payments on short-term loans from financial institutions	(2.08)	(1,769.10)	(1,304.70)
Payments on liabilities under lease liabilities	(3.80)	(1.47)	(2.77)
Interest expense from lease liabilities	(0.88)	(1.13)	(1.23)
Cash received from long-term loans from financial institutions	1,854.24	1,492.23	862.09
Payments on long-term loans from financial institutions	(1,274.58)	(597.52)	(742.09)
Payments on direct borrowing cost	(15.38)	(17.78)	(10.26)
Payments on finance costs – interest paid	(91.57)	(124.96)	(127.85)
Payments for treasury shares	-	-	(173.57)
Cash received from change in shareholding in indirect subsidiaries	-	27.50	-
Cash received from non-controlling interest from increase in share capital in an indirect subsidiary	-	10.01	6.93
Dividend paid to the Company's shareholders	(305.04)	(183.21)	(203.36)
Net cash generated (used in) financing activities	160.91	552.87	(210.11)
Net Increase (decrease) in cash and cash equivalents	410.97	407.86	(461.65)
Cash and cash equivalents at the beginning of the year	71.92	482.89	890.75
Cash and cash equivalents at the end of the year	482.89	890.75	429.10

• **Significant Liquidity Ratio**

Liquidity Ratio	Unit	Consolidated financial statements		
		for the year ended December 31		
		2020	2021	2022
Liquidity Ratio				
Liquidity ratio	Times	1.52	2.01	1.71
Quick ratio	Times	1.04	1.43	0.90
Cash flow liquidity ratio	Times	1.47	1.47	0.98
Account receivable turnover ¹	Times	6.33	6.41	6.40
Day receives	Days	56.83	56.21	56.27
Inventory turnover	Times	N/A	N/A	N/A
Average inventory period	Days	N/A	N/A	N/A
Account payable turnover ²	Times	25.57	28.51	23.15
Average payment period	Days	14.08	12.63	15.55
Cash Cycle	Days	42.75	43.58	40.72
Profitability Ratio				
Gross profit margin from sales and services ³	%	35.92	33.51	27.07
Gross operating profit ⁴	%	33.21	30.55	21.78
Other gross profit	%	0.00	0.00	0.00
Cash conversion ratio	%	114.36	106.82	101.05
Net profit margin ⁵	%	30.23	26.29	18.53
Return on equity	%	13.23	11.87	9.30
Efficiency Ratio				
Return on assets	%	9.86	8.56	6.60
Return on fixed assets	%	23.34	21.53	17.88
Asset turnover	Times	0.33	0.33	0.36
Financial Policy Ratio				
Debt-to-equity	Times	0.37	0.40	0.41
Interest-bearing debt to equity	Times	0.33	0.36	0.36
Net cash interest-bearing debt-to-equity ⁶	Times	0.29	0.29	0.30
Debt service coverage ratio (cash basis)	Times	0.61	0.69	0.37
Interest coverage ratio	Times	20.98	15.40	12.32

¹ Calculated from revenue from sales and services / average trade receivables (excluding the income from construction under the concession agreement)

² Calculated from cost of sales and services / average trade receivables (excluding the cost of construction under the concession agreement)

³ Calculated from (revenue from sales and services - cost of sales and services) / revenue from sales and services

⁴ Calculated from operating profit / revenue from sales and services

⁵ Calculated from period profit (loss) / (revenue from sales and services + income from construction under the concession agreement + other income)

⁶ Calculated from (interest-bearing liabilities - cash and cash equivalents - deposits at financial institutions used as collateral) / shareholder's equity.

4.2 Analysis of Operation and Financial Position

Overall Past Operation and Financial Discussion

For the year 2020, the Group continues to improve production efficiency. Including cost control, fuel procurement, and fuel consumption of biomass power plants. Moreover, the significant reduction in finance costs from the capital management received from the IPO resulted in the reduction of the interest-bearing debt. While the loan rate on interest-bearing debt is also lower. In addition, in August 2020, the Group acquired and accepted the transfer of the 3 companies, operator of the biomass power plant project with a total installed capacity of 26.9 MW, from UA Witthaya Plc. Including the commercial operation (COD) of municipal waste-to-energy power plants Krabi Municipality in Krabi Province. As a result, the Group's revenues increased to Baht 4,987.59 million (excluding revenue from construction under a concession arrangement) and gross profit and net profit of Baht 1,791.33 million and Baht 1,507.64 million, respectively.

For the year 2021, the Group continues to improve production efficiency and cost control of the new biomass power plants which the Group acquired in the third quarter of 2020. In addition, one of the new biomass power plants was completed the process of revision the power purchase agreement to FiT in the end of second quarter of 2021. Moreover, biomass power plant in Khlong Khlung, Kamphaeng Phet Province has started commercial operation (COD) in November 2021. However, the Group's finance cost increased from loan addition for the new investment projects. As a result, the Group's revenues increased to Baht 5,726.92 million and gross profit and net profit of Baht 1,918.95 million and Baht 1,505.40 million, respectively.

For the year 2022, the Group continuously improved machinery's efficiency of the biomass power plants and had first full year operation recognition in 2022 of biomass power plant in Khlong Khlung, Kamphaeng Phet Province which was commercial operation (COD) in November 2021. However, the Group's administrative expenses increased from the Group expansion and new project development. As a result, the Group's revenues increased to Baht 6,917.01 million and gross profit and net profit of Baht 1,872.68 million and Baht 1,281.43 million, respectively.

As of December 31, 2020, 2021 and 2022, the Group had total assets of Baht 16,429.69 million, Baht 18,740.20 million and Baht 20,071.14 million, respectively. The main assets of the Group consist of property, plant and equipment for operating the power plants, receivable under finance lease, rights to service under concession arrangement and trade and other receivables.

As of December 31, 2020, 2021 and 2022, the Group had total liabilities of Baht 4,436.85 million, Baht 5,371.62 million and Baht 5,886.38 million, respectively. Most liabilities are long-term loans from financial institutions for the power plant projects. Total liabilities of 2021 increased by Baht 934.77 million mainly from increase in long-term loans from financial institutions of Baht 881.91 million for the new investment projects and projects to be COD in the future. Total liabilities of 2022 increased by Baht 514.76 million mainly from increase in trade and other payables of Baht 180.91 million, increase in short-term loan from financial institutions of Baht 181.70 million and increase in long-term loans from financial institutions of Baht 106.12 million from the addition loans during the years for the new investment projects and projects to be COD in the future.

As of December 31, 2020, 2021 and 2022, the Group had total equity of Baht 11,992.84 million, Baht 13,368.58 million and Baht 14,184.76 million, respectively. The shareholders' equity increased in 2021 and 2022 from the continuing operating profit of the Group. Furthermore, during the year 2022, the Company had the share repurchase project. The share repurchase project had already ended in December 2022 in which the Company

had repurchased shares in the total amount of Baht 268.01 million and reserved the unappropriated retained earnings to the treasury shares reserve for the amount of Baht 268.01 million.

Analysis of Operation and Financial Performance

Revenues

For the year ended December 31, 2020, 2021 and 2022, total revenue for the Group were Baht 6,036.77 million, Baht 5,739.67 million and Baht 6,933.96 million, respectively or decreased by 4.92% in 2021 and increased by 20.81% in 2022, respectively.

- **Sales of goods and services**

For the year ended December 31, 2020, 2021 and 2022, the Group had sales of goods and services of Baht 4,987.59 million, Baht 5,726.92 million and Baht 6,917.01 million, respectively, or increased by 14.82% in 2021 and 20.78% in 2022, respectively. Sales of goods and services in 2020, 2021 and 2022 included revenue from finance leases under Power Purchase Agreement totaling Baht 401.23 million, Baht 411.03 million and Baht 414.94 million, respectively, or by 8.04%, 7.18% and 6.00% of sales of goods and services. Most of sales of goods and services came from 2 major customers, Provincial Electricity Authority (“PEA”) and Electricity Generating Authority of Thailand (“EGAT”), accounting for 97.17%, 98.14% and 98.35% of total sales of goods and services in 2020, 2021 and 2022, respectively. The Group has revenues from 4 types of Power Plants: Biomass Power Plants, Natural Gas Power Plant, Municipality Solid Waste Power Plants and Solar Energy Power Plants, per following details

Sales of goods and services	Consolidated Financial Statement for the year ended, December 31					
	2020		2021		2022	
	MB	%	MB	%	MB	%
Sales of electricity – FiT, base tariff and Ft	2,666.67	53.46	3,146.35	54.94	3,250.76	47.00
FiT premium	152.61	3.06	90.70	1.58	68.92	0.99
Sales of electricity to Industrial Users (IU)	20.62	0.41	24.68	0.43	31.07	0.45
Revenue from maintenance service to outside	47.81	0.96	-	-	-	-
Total Sales from Biomass Power Plants	2,887.71	57.89	3,261.73	56.95	3,350.75	48.44
Revenue from finance lease under Power Purchase Agreement	401.23	8.04	411.04	7.18	414.94	6.00
Revenue from service under Power Purchase Agreement	1,394.90	27.97	1,540.77	26.90	2,620.72	37.89
Sales of electricity to Industrial Users (IU)	5.10	0.10	5.05	0.09	3.35	0.05
Sales of steam (IU)	13.24	0.27	8.38	0.15	3.97	0.05
Total Sales from Natural Gas Power Plant	1,814.47	36.38	1,965.24	34.32	3,042.98	43.99

Sales of electricity – FiT, base tariff and Ft	104.88	2.10	275.86	4.82	299.55	4.33
FiT Premium	0.26	0.01	23.74	0.41	24.34	0.35
Additional income (Adder)	128.62	2.58	131.98	2.31	123.62	1.79
Other sales and service income	40.26	0.81	50.54	0.88	55.72	0.81
Total Sales from Solid Waste Power Plants	274.02	5.50	482.12	8.42	503.23	7.28
Sales of electricity – base tariff and Ft	11.39	0.23	17.83	0.31	20.05	0.29
Total Sales from Solar Energy Power Plants	11.39	0.23	17.83	0.31	20.05	0.29
Sales of goods and services	4,987.59	100.00	5,726.92	100.00	6,917.01	100.00

- **Revenue from Construction under a Concession Arrangement (Before COD)**

In 2020, the Group had Revenue from Construction under a Concession Arrangement of Baht 870.55 million under Solid Waste Power Plant Concession. As specified in the contract, the Group shall transfer assets when the contract ends. The Group's management assessed the agreement in accordance with TFRIC 12 'Service Concession Arrangements'. As a result, the Group's management recognized revenue from construction under a concession arrangement in accordance with percentage of completion of the fair value of assets. The Group's management also recognized cost of construction under a concession arrangement at actual cost in the same amount. No gain and loss from recognized sales and cost of construction under a concession arrangement transaction. The construction was completed and commenced commercial operation in 2020. As a consequence, there is no any further revenue from construction under a concession arrangement recognized in 2021 and 2022.

Other Income

For the year ended December 31, 2020, 2021 and 2022, the Group had other income of Baht 178.63 million, Baht 12.75 million and Baht 16.95 million, respectively. Most of other income in 2020 came from compensation from insurance company of Baht 171.95 million, which was the compensation from the occurrence of the damage of the power plant machinery during the test run (Commissioning & Test Run) in 2016, which an indirect subsidiary has already repaired and now can normally operate. In 2021, most of other income came from Power Development Fund of Baht 6.23 million. Most of other income in 2022 came from sales of raw water and industrial water of Baht 3.71 million and income from waste management of Baht 2.53 million.

Costs

• Costs of Sales and Services

For the year ended December 31, 2020, 2021 and 2022, the Group had costs of sales and services of Baht 3,196.27 million, Baht 3,807.97 million and Baht 5,044.33 million, respectively. Costs of sales and services could be classified as below.

Costs of Sales and Services	Consolidated Financial Statement for the year ended, December 31					
	2020		2021		2022	
	MB	%	MB	%	MB	%
Fuel material cost	2,057.55	64.37	2,485.64	65.28	3,608.32	71.53
Depreciation and amortization cost	503.63	15.76	624.12	16.39	675.62	13.39
Staff cost, repair and maintenance cost and other services	470.55	14.73	540.86	14.20	597.09	11.84
Cost of maintenance service to outside	29.83	0.93	-	-	-	-
Operation fee - PEA	56.26	1.76	63.97	1.68	64.42	1.28
Other Costs	78.45	2.45	93.38	2.45	98.88	1.96
Total Sales & Service Costs	3,196.27	100.00	3,807.97	100.00	5,044.33	100.00

Biomass Power Plant Projects

For the year ended December 31, 2020, 2021 and 2022, total costs of sales and services for Biomass Power Plants were Baht 1,792.92 million, Baht 2,175.23 million and Baht 2,353.18 million, respectively. Major costs were fuel material costs, depreciation cost of buildings and machine and maintenance costs and staff costs.

For the year 2021, the cost of sales and services of biomass power plant projects increased by Baht 382.31 million from 2020, or increased by 21.32%, mainly due to increase in fuel costs which is in line with the increase in production and sales of electricity from the power plants acquired during the year 2020. Then, the Group had full-year revenue recognition in 2021 for the acquired plants. In addition, biomass power plant in Khlong Khlung, Kamphaeng Phet Province was commercial operation of in 2021.

For the year 2022, the cost of sales and services of biomass power plant projects increased by Baht 177.95 million from 2021, or increased by 8.18%, mainly due to increase in operation costs which is in line with the increase in production and sales of electricity from biomass power plant in Khlong Khlung, Kamphaeng Phet Province which was commercial operation in 2021 and had full-year revenue recognition in 2022.

Natural Gas Power Plant Projects

Costs of sales and service for Natural Gas Power Plant (AAA1) for 2020, 2021 and 2022 were Baht 1,267.21 million, Baht 1,403.97 million and Baht 2,469.51 million, respectively. Most of cost were fuel material costs and operation and maintenance costs. Cost of sales and services of 2021 increased from the year 2020 by Baht 136.76 million and cost of sales and services of 2022 increased from the year 2021 by Baht 1,065.54 million, mainly due to increase in the fuel materials cost of natural gas power plants from the increase of average natural gas prices.

- **Gain on Exchange Rate**

Gain on exchange rate mainly came from unrealized exchange rate of receivable under finance lease of natural gas power plant and partially from realized gain on exchange from payment for machine and spare parts for the under-developed projects to foreign suppliers.

In 2020, 2021 and 2022, the Group has gain on exchange rate Baht 18.77 million, Baht 155.76 million and Baht 53.47 million, respectively. The Group has gain on exchange rate due to the depreciation of Thai Baht at the year ended 2021 and 2022 when compared to prior year.

Municipality Solid Waste Power Plant Projects

In 2020, 2021 and 2022, cost of sales and services of the Municipality Solid Waste Power Plant Projects were Baht 130.44 million, Baht 220.46 million and Baht 212.49 million, respectively. Most of the cost were amortization of service rights from the concession agreement which calculated from the fair value of the project, maintenance and labor costs. Cost of sales and services of the Municipality Solid Waste Power Plant Projects of 2021 increased from 2020 by Baht 90.02 million due to municipal solid waste power plant in Krabi which had started its commercial operation since late December 2020 which the Group had full-year operation recognition for the first time in 2021.

Cost of sales and services of Municipality Solid Waste Power Plant Projects of 2022 decreased from 2021 by Baht 7.97 million due to the decreasing in cost of other services as the result from cost controlling of municipal solid waste power plants in the year 2022.

Solar Rooftop Energy Power Plant Project

Cost of sales and services of solar power plant projects in 2020, 2021 and 2022 were Baht 5.69 million, Baht 8.31 million and Baht 9.15 million, respectively. Most of the costs came from labor costs and depreciation.

- **Gross Profit**

For the year ended December 31, 2020, 2021 and 2022, the Group has gross profit margins from sales and services of 35.92%, 33.51%, and 27.07%, respectively. Gross Profit could be classified by type of Power Plants as below.

Gross Profit	Consolidated Financial Statement for the year ended, December 31					
	2020		2021		2022	
	million baht	%	million baht	%	million baht	%
Biomass Power Plants						
Sales and service income	2,887.71	100.00	3,261.73	100.00	3,350.75	100.00
Costs of sales and service	1,792.92	62.09	2,175.23	66.69	2,353.18	70.23
Biomass Power Plant Gross Profit	1,094.79	37.91	1,086.50	33.31	997.57	29.77

Natural Gas Power Plant						
Sales and service income	1,814.47	100.00	1,965.24	100.00	3,042.98	100.00
Costs of sales and service	1,267.21	69.84	1,403.97	71.44	2,469.51	81.15
Natural Gas Power Plant Gross Profit	547.26	30.16	561.27	28.56	573.47	18.85
Solid Waste Power Plants						
Sales and service income	274.02	100.00	482.12	100.00	503.23	100.00
Costs of sales and service	130.44	47.60	220.46	45.73	212.49	42.23
Solid Waste Power Plants Gross Profit	143.58	52.40	261.66	54.27	290.74	57.77
Solar Rooftop Power Plant						
Sales and service income	11.39	100.00	17.83	100.00	20.05	100.00
Costs of sales and service	5.69	49.96	8.31	46.61	9.15	45.64
Solar Energy Power Plant Project Gross Profit	5.70	50.04	9.52	53.39	10.90	54.36
Sales and service income	4,987.59	100.00	5,726.92	100.00	6,917.01	100.00
Costs of sales and service	3,196.26	64.08	3,807.97	66.49	5,044.33	72.93
Total Gross Profit	1,791.33	35.92	1,918.95	33.51	1,872.68	27.07

Gross profit and gross profit margin of biomass power plants of 2020 were Baht 1,094.79 million and 37.91%, respectively. The gross profit of biomass power plants of 2021 decreased from 2020 by Baht 8.29 million and gross profit margin decrease to 33.31% because of the decreasing in sales from FiT Premium as the result of the expiration of FiT Premium period of three biomass power plants during the year as conditioned in the FiT power purchase agreements. In addition, the biomass power plants, which the Group acquired in the third quarter of 2020, although the Group had significantly improved the machinery's efficiency and cost reduction, the overall performance still inferior to the Group own development biomass power plant. This was led to the decrease of gross profit margin of biomass power plants. Gross profit of biomass power plants of 2022 decreased by Baht 88.93 million and gross profit margin decrease to 29.77% from the decreasing in sales from FiT Premium as the result of the expiration of FiT Premium period of one biomass power plant during the year as conditioned in the FiT power purchase agreements. Furthermore, the biomass power plants had shutdown hours to improve the power plants machinery's efficiency in the year 2022 higher than the year 2021. This was led to the decrease of gross profit and gross profit margin of biomass power plants.

For the natural gas power plant project (AAA1), the main cost of the natural gas power plant project came from the cost of natural gas fuel. The gross profit of natural gas power plant project for 2020 was Baht 547.26 million and the gross profit margin was 30.16%. For 2021, the gross profit was Baht 561.27 million and gross profit was 28.56%. Gross profit of 2021 increased by Baht 14.01 million from 2020 since there was planned shutdown in the year 2020 then the revenue decreased. For 2022, the gross profit was Baht 573.47 million and the gross profit margin was 18.85%. Gross profit of 2022 increased by Baht 12.20 million. However, gross profit margin of 2022 decreased from the year 2021, from 28.56% to 18.85%. This was the result from the increasing

in average natural gas price which led to the increasing in fuel material cost of natural gas. Thus, sales in the portion of electric power formula of natural gas power plant also increase in line with the increasing in fuel material cost of natural gas. This is the mechanism of the price formula which had the intention to give natural gas power plant keep the level of gross profit by mitigating the risk of natural gas price fluctuation. As the result, sales of natural gas power plant for the year 2022 significantly increased when comparing to the year 2021 while gross margin of natural gas power plant for the year 2022 still nearly to the year 2021, by increasing of Baht 12.20 million, and according to the formula of gross profit margin which calculated by taking gross margin divided by sales, so sales increase in the higher portion than gross margin increase will lead to gross profit margin decrease.

The Group's gross profit from municipal waste power plants in 2020 was Baht 143.58 million with the gross profit margin of 52.40% and gross profit for the year 2021 was Baht 261.66 million with the gross profit margin of 54.27%. The increase in gross profit by Baht 118.08 million from the year 2020 was due to the increase in electricity sales and waste disposal revenue. And the Krabi Municipal Waste Power Plant, which began commercial operation in December 2020, which the Group had full-year revenue recognition for the first time in the year 2021. Gross profit for the year 2022 was Baht 290.74 million with the gross profit margin of 57.77%. The increase in gross profit by Baht 29.08 million from the year 2021 was due to municipal solid waste power plants had planned-shutdown hours lower than the year 2021. Most of the cost was amortization of service rights from the concession agreement which was not vary by electricity unit sold.

Gross profit solar power plant projects for 2020, 2021 and 2022 were Baht 5.70 million, Baht 9.52 million and Baht 10.90 million, respectively. With the gross profit of 50.04%, 53.39% and 54.36%, respectively.

Overall, the gross profit of the Group for the fiscal year ended December 31, 2020, 2021 and 2022 were equal to Baht 1,791.33 million, Baht 1,918.95 million and Baht 1,872.68 million, respectively. With the gross profit of 35.92% (excluding construction income under the concession agreement), 33.51% and 27.07%, respectively.

Selling & Administrative Expenses

For the year ended December 31, 2020, 2021 and 2022, the Group has administrative expenses of Baht 322.25 million, Baht 350.35 million and Baht 438.16 million, respectively. The proportion of total revenue, excluding other income, were 5.50%, 6.12% and 6.33%, respectively. In the year 2021 the administrative expenses increased from the year 2020 by Baht 28.10 million or 8.72% and the year 2022 increased from the year 2021 by Baht 87.81 million or 25.06% due to employee benefit expenses and pre-operation expenses as the result from the Group expansion and new project development. In addition, in the year 2022, the Group also recognized the provision of damages from civil case which the civil court ordered the sentence and loss from impairment of assets.

Finance Costs

For the year ended December 31, 2020, 2021 and 2022, the Group had finance costs of Baht 106.32 million, Baht 141.37 million and Baht 132.09 million, respectively. This represented 1.82%, 2.47% and 1.91% of total revenue, excluding other income, respectively. Finance costs of the year 2021 increased from the year 2020 by Baht 35.05 million or 32.97% from loan addition for the new investment projects in 2021. In the year 2022, finance cost decreased from 2021 by Baht 9.28 million or 6.56% due to the decreasing in interest expense from loans as the result from loans prepayment, comprise decrease of interest rate of loans from commercial bank since the second quarter of 2022.

Income Tax

For the year ended December 31, 2020, 2021 and 2022, the Company had corporate tax expense of Baht 42.61 million, Baht 102.52 million and Baht 92.76 million, respectively. Income tax of the Group comprised of current tax, for the portion of profit which was not exempted from the BOI-privileges, and deferred tax from temporary difference from the change in balance of deferred tax assets or deferred tax liabilities at the end of period.

In 2021, the Group had income tax expenses increased from the year 2020 by Baht 59.91 million, due to recording expenses from temporary differences of finance lease receivables and rights to service under concession arrangements, including the effects of other temporary differences. The Group has therefore recorded deferred tax as expense for the year 2021 amounting to Baht 74.68 million.

In 2022, the Group had income tax expenses decreased from the year 2021 by Baht 9.76 million, due to recording expenses from temporary differences of finance lease receivables, including the effects of other temporary differences. The Group has therefore recorded deferred tax as expense for the year 2022 amounting to Baht 54.53 million.

Income tax for profit before tax of the Group has difference from the calculation of the accounting profit multiplied by corporate income tax rate as detail following.

	Consolidated financial statements for the year ended December 31		
	2020	2021	2022
	Millions	Millions	Millions
Profit before tax	1,550.25	1,607.94	1,364.19
Corporate income tax rate (%)	20.00%	20.00%	20.00%
Tax calculated at corporate income tax rate	310.05	321.59	274.84
Tax effect of:			
Expense not deductible for tax purpose	4.19	0.83	6.77
Revenue from loan forgiveness	-	19.07	-
Expense additionally deductible for tax purpose	(30.12)	(20.72)	(27.47)
Profit not subject to tax due to privileges from BOI	(220.22)	(198.89)	(174.09)
Utilization of previously unrecognized deferred tax assets on tax losses	(11.87)	(31.66)	(10.36)
Tax losses of indirect subsidiaries after business acquisition	(7.24)	-	-
Loss utilization during the year after business acquisition	(8.43)	-	-
Tax losses for which no deferred income tax asset was recognized	5.78	12.45	22.66
Others	0.47	(0.15)	0.41
Income tax	42.61	102.52	92.76

Effective tax rate for the year 2020, 2021 and 2022 of the Group were 2.75%, 6.38% and 6.75%, respectively, which lower than the corporate income tax rate, which was 20.0%, according to the Group had expense which can additionally deductible as expense for income tax calculation and net profit earned from promoted activities which exemption from corporate income tax.

Net Profit

For the year ended December 31, 2020, 2021 and 2022, the Group had net profit of Baht 1,507.64 million, Baht 1,505.42 million and Baht 1,281.43 million, respectively. This represented a net profit margin of 25.73%, 26.29% and 18.53 %, respectively. For the year 2021, net profit decreased by Baht 2.22 million or 0.15% from 2020, because of increasing in administrative expenses for the Group expansion and new project development, increasing in finance costs from loan addition for the new investment projects and increasing in income tax expenses.

For the year 2022, net profit decreased by Baht 223.99 million or 14.88% compared to the year 2021 due to, in the year 2022, there were the decreasing in gross profit of biomass power plants of the Group and the increasing in administrative expenses for the Group expansion and new project development. In addition, gain on exchange rate decreased from prior year by Baht 97.83 million which most of the exchange rate was unrealized exchange rate of receivable under finance lease.

Financial Condition Analysis

Assets

For the year ended December 31, 2020, 2021 and 2022, the Company had total assets of Baht 16,429.69 million, Baht 18,740.20 million, and Baht 20,071.14 million, respectively. This represented increase of 14.06% and 7.10%, respectively. Major assets are land, property plant and equipment for operating power plants, account receivables under financial lease of the Natural Gas Power Plant's power purchase agreement and rights to service under Municipality Waste Management Project concession arrangement.

In 2021, total assets increased by Baht 2,310.51 million compared to 2020, or increased 14.06% due to cash and cash equivalents increased by Baht 407.86 million, trade and other receivables increased by Baht 240.02 million and receivables under finance lease increased by Baht 128.83 million from the adjustment of exchange rates. Inventories increased by Baht 129.55 million. Restricted deposits at financial institutions increased by Baht 158.01 million. Investment properties increased by Baht 65.83 million from purchase of land of future power plant projects. Property, plant and equipment increased by Baht 1,166.01 million from the new investment projects. Rights to service under concession arrangements decreased by Baht 84.29 million from amortization during the year.

In 2022, total assets increased by Baht 1,330.94 million compared to 2021, or increased 7.10% due to cash and cash equivalents decreased by Baht 461.65 million, trade and other receivables increased by Baht 363.37 million and receivables under finance lease increased by Baht 15.81 million from the adjustment of exchange rates. Inventories increased by Baht 425.77 million. Restricted deposits at financial institutions decreased by Baht 38.02 million. Investment properties decreased by Baht 86.90 million. Property, plant and equipment increased by Baht 965.53 million from the new investment projects. Rights to service under concession arrangements decreased by Baht 84.29 million from amortization during the year. Right-of-use assets increased by Baht 31.98 million from land lease for power plant project.

- **Trade and other receivables**

For the year ended December 31, 2020, 2021 and 2022, the Group had trade and other receivables of Baht 829.02 million, Baht 1,069.04 million, and Baht 1,432.41 million, respectively. Or represented 5.04%, 5.70% and 7.14% of total assets, respectively. The debt collection period of the Group as at December 31, 2020, 2021 and 2022, were 56.83 days, 56.21 days and 56.27 days, respectively.

- **Receivables under Finance Lease**

For the year ended December 31, 2020, 2021 and 2022, the Group had current portion of receivables under finance lease of Baht 93.31 million, Baht 110.07 million and Baht 116.98 million, respectively. And had receivables under finance lease as long-term assets of Baht 3,163.02 million, Baht 3,275.09 million and Baht 3,283.99 million, respectively. The receivables under finance lease were recognized from the electricity Income under Power Purchase Agreement for AAA1 Project according to TFRIC 4. For the year ended December 31, 2020, 2021 and 2022, the receivables under finance lease accounted for 19.82%, 18.07% and 16.94% of total assets respectively.

- **Property, Plant and Equipment**

For the year ended December 31, 2020, 2021 and 2022, the Group had property, plant and equipment of Baht 9,095.28 million, Baht 10,261.29 million and Baht 11,226.82 million, respectively. For the year 2021 and 2022, the increasing of Baht 1,166.01 million and Baht 965.53 million, respectively, came from investment in new projects.

For the year ended December 31, 2020, 2021 and 2022, the property, plant and equipment accounted for 55.36%, 54.75% and 55.93% of total assets, respectively.

Property, Plant, Equipment	Consolidated Financial Statement for the year ended, December 31					
	2020		2021		2022	
	million baht	%	million baht	%	million baht	%
Land	2,038.40	22.41	2,675.90	26.08	3,591.90	31.99
Land Improvement	482.25	5.30	614.64	5.99	611.16	5.44
Building & Building Improvement - Power Plant	682.30	7.50	757.46	7.38	696.04	6.20
Building & Building Improvement - Office	186.75	2.05	177.67	1.73	185.02	1.65
Machine & Equipment	4,749.27	52.22	5,336.67	52.01	5,073.22	45.19
Office equipment, Furniture & Fixture	12.70	0.14	14.45	0.14	15.58	0.14
Tool & Equipment	25.35	0.28	24.06	0.23	24.21	0.22
Vehicles	13.70	0.15	9.94	0.10	12.48	0.11
Construction Work-in-Process	904.56	9.95	650.50	6.34	1,017.21	9.06
Total Property, Plant, Equipment	9,095.28	100.00	10,261.29	100.00	11,226.82	100.00

For the year ended December, 31, 2020, 2021 and 2022, the Group had construction work-in-process of Baht 904.56 million, Baht 650.50 million and Baht 1,017.21 million, respectively, according to the Group had been building power plant project and also increased from investment in other new projects. In 2021 and 2022, the Group had work in progress for Klong Klung Power Plants (Project of BPP).

- **Rights to service under Concession Arrangement**

Rights to service under Concession Arrangement is the right awarded under the Concession to provide Waste Management by converting waste to electrical energy. During construction period, The Group recorded the waste as intangible assets (Rights to service under Concession Arrangement) in accordance with percentage of completion of the fair value of the assets (Construction Value of Municipality Solid Waste Power Plant) After commencing commercial operation, The Group will amortize the Rights to service under Concession Arrangement as expenses in the Profit and Loss Statement, using a straight-line method throughout the concession period. The Company will transfer the Power Plant building to Khon Kaen Municipality at the end of the concession. (Refer to Building Construction agreement to transfer the ownership to Khon Kaen Municipality Solid Waste Power Plant according to the Waste disposal and Waste to Energy Concession).

As of December 31, 2020, 2021 and 2022, the Group has a record of rights to provide services from the concession agreement of the municipal waste power plant project amounting to Baht 1,639.54 million, Baht 1,555.25 million and Baht 1,470.96 million, respectively. In 2020, the Group recognized the service rights from the concession agreement as an additional intangible asset as a consideration for the construction of assets under the concession agreement and amortize such rights throughout the contract period. The company started commercial operating on 28 December 2020. In 2021 and 2022, rights to service under concession arrangements decreased from amortization during the year.

Liabilities

For the year ended December 31, 2020, 2021 and 2022, total liabilities were Baht 4,436.85 million, Baht 5,371.62 million and Baht 5,886.38 million, respectively. Total liabilities for 2021 increased by Baht 934.77 million or increase 21.07%, mainly due to long-term loans from financial institutions increased by Baht 881.91 million from addition during the year. Deferred tax liabilities also increased by Baht 58.35 million. In 2022, total liabilities increased by Baht 514.76 million or 9.58%, mainly due to trade and other payables increased by Baht 180.91 million, short-term loans from financial institutions increased by Baht 181.70 million and long-term loans from financial institutions increased by Baht 106.12 million from addition during the year. Deferred tax liabilities also increased by Baht 40.47 million.

- **Trade and Other Payables**

For the year ended December 31, 2020, 2021 and 2022, trade and other payables were Baht 268.97 million, Baht 327.80 million and Baht 508.71 million, respectively. Or equivalent to 6.06%, 6.10% and 8.64% of total liabilities, respectively. In 2021, trade and other payables increased by Baht 58.83 million, mainly due to increase in natural gas payable in the amount of Baht 64.22 million, retention of Baht 31.69 million, decrease in other payable of Baht 12.48 million and accounts payable from the purchase of fixed assets in the amount of Baht 15.00 million. In 2022, trade and other payables increased by Baht 180.91 million, mainly due to increase in natural gas payable in the amount of Baht 110.33 million and treasury shares payable in the amount of Baht 94.44 million.

For the year ended December 31, 2020, 2021 and 2022, the Group had a creditors payment period of 14.08 days, 12.63 days and 15.55 days, respectively.

Trade and Other Payables	Consolidated Financial Statement for the year ended, December 31					
	2020		2021		2022	
	million baht	%	million baht	%	million baht	%
Trade payables	104.84	38.98	162.31	49.51	273.57	53.78
Other payables	38.68	14.38	26.20	8.00	16.73	3.29
Accounts payable from purchase of fixed assets	48.60	18.07	33.60	10.25	16.01	3.15
Treasury shares payable	-	-	-	-	94.44	18.56
Accrued expenses	74.03	27.52	70.94	21.64	94.71	18.62
Accrued interest expenses	0.43	0.16	0.61	0.19	5.54	1.09
Advance received	0.07	0.03	0.10	0.03	6.55	1.28
Retention	2.24	0.83	33.93	10.35	1.11	0.22
Employee guarantee	0.07	0.03	0.11	0.03	0.05	0.01
Total Trade and Other Payables	268.96	100.00	327.80	100.00	508.71	100.00

- **Long-terms Loans from Financial Institutions**

For the year ended December 31, 2020, 2021 and 2022, the Group had long-terms loans from financial institutions per following:

Long-terms Loans from Financial Institutions	Consolidated Financial Statement for the year ended, December 31					
	2020		2021		2022	
	million baht	%	million baht	%	million baht	%
Current Portion of Long-terms Loans from Financial Institutions (Net)	575.29	15.73	702.12	15.47	795.04	17.12
Long-terms Loans from Financial Institutions (Net)	3,081.86	84.27	3,836.94	84.53	3,850.14	82.88
Total Long-terms Loans from Financial Institutions	3,657.15	100.00	4,539.06	100.00	4,645.18	100.00

Long-terms loans from financial institutions were used for investment and construction of Company's Power Plants. In 2021 and 2022, the Group has an increase of long-term loans from financial institutions by Baht 881.91 million and Baht 106.12 million, respectively, or increase 24.11% and 2.34%, mainly due to entering into long-term and revolving credit agreements with financial institutions for development and operation of power plant projects and support the preparation of new projects in the future.

For the year ended December 31, 2020, 2021 and 2022, long-terms loans from financial institutions were 82.43%, 84.50% and 78.91% of total liabilities, respectively.

- **Provisions for Power Plant maintenance under concession arrangement**

For the year ended December 31, 2020, 2021 and 2022, provisions for power plant maintenance under concession arrangement were Baht 32.42 million, Baht 32.01 million and Baht 17.36 million, respectively. Such provision was requirement under the Waste Management and Converting of Waste to Electrical Energy Concession Arrangement that the contracted party oversees, maintain and repair assets under concession in good working condition throughout the concession period. The provisions were recorded with accurate calculation to ensure sufficient fund available. In the year 2022, provision for power plant maintenance under concession arrangement decreased by Baht 14.65 million due to the payment for the maintenance occurred during the year. Provisions for power plant maintenance under concession arrangement for the year ended December 31, 2020, 2021 and 2022 were equivalent to 0.73%, 0.60% and 0.29% of total liabilities, respectively.

Shareholders' equity

For the year ended December 31, 2020, 2021 and 2022, The Group had shareholders' equity of Baht 11,992.84 million, Baht 13,368.58 million and Baht 14,184.76 million, respectively. In 2021, shareholders' equity increased by Baht 1,375.74 million or 11.47% from the year 2020. In 2022, shareholders' equity increased by Baht 816.18 million or 6.11 % from the year 2021. These were due to the group of companies have a net profit, resulting in an increase in retained earnings.

For the year ended December 31, 2020, 2021 and 2022, the unappropriated retained earnings were Baht 3,005.69 million, Baht 4,308.98 million and Baht 5,022.19 million, respectively. In addition, in 2020, 2021 and 2022, the Company has retained earnings allocated as legal reserve of Baht 26.03 million, Baht 45.23 million and Baht 141.83 million, respectively.

In addition, during the year 2022, the Company had the share repurchase project. The share repurchase project had already ended in December 2022 in which the Company had repurchased shares in the total amount of Baht 268.01 million and reserved the unappropriated retained earnings to the treasury shares reserve for the amount of Baht 268.01 million.

Equity	Consolidated Financial Statement for the year ended, December 31					
	2020		2021		2022	
	million baht	%	million baht	%	million baht	%
Paid-up Capital	5,088.00	42.42	5,088.00	38.06	5,088.00	35.87
Share Premium	3,896.01	32.49	3,896.01	29.14	3,896.01	27.46
Retained earnings – Appropriated – Legal reserve	26.03	0.22	45.23	0.34	141.83	1.00
Retained earnings – Appropriated – Treasury shares reserve	-	-	-	-	268.01	1.89
Retained Earnings - unappropriated	3,005.69	25.06	4,308.98	32.23	5,022.19	35.41
Treasury shares	-	-	-	-	(268.01)	(1.89)
Deficits from Business Combination under	(22.89)	(0.19)	(22.89)	(0.17)	(22.89)	(0.16)
Equity attributable to owners of the parent	-	-	13,315.33	99.60	14,125.14	99.58
Non-controlling interests	-	-	53.25	0.40	59.62	0.42
Total equity	11,992.84	100.00	13,368.58	100.00	14,184.76	100.00

Liquidity Analysis

Cash Flow Analysis	Consolidated Financial Statement for the year ended, December 31		
	2020	2021	2022
	million baht	million baht	million baht
Net Cash from Operation	1,894.52	1,868.65	1,522.15
Net Cash used in Investment	(1,644.46)	(2,013.66)	(1,773.69)
Net Cash in Financing	160.91	552.87	(210.11)
Net Cash and Cash Equivalents Increase (Decrease)	410.97	407.86	(461.65)
Cash or Cash Equivalent at beginning of the Year	71.92	482.89	890.75
Cash or Cash Equivalent at End of Year	482.89	890.75	429.10

Cash Flow from Operation

For the year ended December 31, 2020, 2021 and 2022, the Group had cash flow from operation of Baht 1,894.52 million, Baht 1,868.65 million and Baht 1,522.15 million, respectively.

For the year ended December 31, 2020, the Group had a profit from operating activities before changes in operating assets and liabilities amounted to Baht 2,232.51 million, with an increase in biomass power plant projects from the acquisition of 3 power plant projects. One additional commercial operation solar project and one more waste power plant from 2019 has started commercial operating. The Group had profit before tax Baht 1,550.25 million. Depreciation expenses of Baht 494.53 million and finance costs of Baht 106.32 million. However, the Group had cash flows used in the change of net working capital of Baht 313.16 million, resulting in the group of companies has net cash flow from operating activities in the amount of Baht 1,894.52 million.

For the year ended December 31, 2021, the Group had a profit from operating activities before changes in operating assets and liabilities amounted to Baht 2,266.38 million, with an increase in one more additional biomass power plant projects from 2020. The Group had profit before tax Baht 1,607.94 million. Depreciation expenses of Baht 578.05 million and finance costs of Baht 141.37 million. However, the Group had cash flows used in the change of net working capital of Baht 343.74 million, resulting in the group of companies has net cash flow from operating activities in the amount of Baht 1,868.65 million.

For the year ended December 31, 2022, the Group had a profit from operating activities before changes in operating assets and liabilities amounted to Baht 2,228.67 million. The Group had profit before tax Baht 1,374.19 million. Depreciation expenses of Baht 639.48 million and finance costs of Baht 132.09 million. However, the Group had cash flows used in the change of net working capital of Baht 655.34 million, resulting in the group of companies has net cash flow from operating activities in the amount of Baht 1,522.15 million.

Cash Flow from Investing

For the year ended December 31, 2020, 2021 and 2022, net cash flow used in investing activities were Baht 1,644.46 million, Baht 2,013.66 million and Baht 1,773.69 million, respectively.

For the year ended December 31, 2020, the Group had net cash used in investing activities of Baht 1,644.46 million, mainly due to the purchase of fixed assets amounting to Baht 655.36 million and assets under

the concession arrangement of Baht 866.53 million. Purchase for the transfer of debt from the business acquisition of Baht 265.56 million and decrease in restricted deposits of Baht 251.25 million.

For the year ended December 31, 2021, the Group had net cash used in investing activities of Baht 2,013.66 million, mainly due to the purchase of fixed assets amounting to Baht 1,776.12 million and purchase of investment properties amounting to Baht 65.83 million and increase in restricted deposits of Baht 158.01 million.

For the year ended December 31, 2022, the Group had net cash used in investing activities of Baht 1,773.69 million, mainly due to the purchase of fixed assets amounting to Baht 1,769.32 million and purchase of right-of-use assets amounting to Baht 37.11 million and decrease in restricted deposits of Baht 38.02 million.

Cash Flow from Financing

For the year ended December 31, 2020 and 2021, the Group had cash flow from financing of Baht 160.91 million and Baht 522.87 million, respectively. In 2022, the Group had cash flow used in financing of Baht 210.11 million.

For the year ended December 31, 2020, the Group had net cash flows from financing activities of Baht 160.91 million. Net cash received from long-term loans from financial institutions and repayment amount of Baht 579.66 million. Cash flow used from dividends payment to shareholders of the Company amounting to Baht 305.04 million.

For the year ended December 31, 2021, the Group had net cash flows from financing activities of Baht 552.87 million. Net cash received from long-term loans from financial institutions and repayment amount of Baht 894.71 million. Cash flow used for interest payment of Baht 124.96 million. Cash flow used from dividends payment to shareholders of the Company amounting to Baht 183.21 million.

For the year ended December 31, 2022, the Group had net cash flows used in financing activities of Baht 210.11 million. Net cash received from short-term loans from financial institutions and repayment amount of Baht 182.00 million and net cash received from long-term loans from financial institutions and repayment amount of Baht 120.00 million. Cash flow used for interest payment of Baht 127.85 million. Cash flow used for treasury shares payment of Baht 173.57 million. Also, cash flow used from dividends payment to shareholders of the Company amounting to Baht 203.36 million.

Financial Ratio Analysis

Liquidity Ratio

Liquidity Ratio	Unit	Consolidated Financial Statement for the year ended, December 31		
		2020	2021	2022
Liquidity Ratio	Times	1.52	2.01	1.71
Debt Cycle ¹	Days	56.83	56.21	56.27
Average Debt Payment ²	Days	14.08	12.63	15.55
Cash Cycle	Days	42.75	43.58	40.72

Remark: ¹ using 360 formula / (Sales & Service Income / Average Trade Receivable at beginning and end of year)

² using 360 formula / (Costs of Sales & Service / Average Trade Payables at beginning and end of year)

For the year ended December 31, 2020, 2021 and 2022, the Group had liquidity ratio of 1.52 times, 2.01 times and 1.71 times, respectively. In 2021, the liquidity ratio of the Group increased to 2.01 times due to an increase in current assets of Baht 830.68 million, mainly due to increase in cash and cash equivalents of Baht 407.86 million. Trade and other receivables increased by Baht 240.02 million. Inventories increased by Baht 129.55 million. While current liabilities increased by Baht 114.46 million mainly from long-term loans from financial institutions due within one year amounting to Baht 126.83 million.

In 2022, the liquidity ratio of the Group decreased to 1.71 times due to an increase in current assets of Baht 360.21 million, mainly due to decrease in cash and cash equivalents of Baht 461.65 million. Trade and other receivables increased by Baht 363.37 million. Inventories increased by Baht 425.77 million. While current liabilities increased by Baht 441.48 million mainly from short-term loans from financial institutions increased by Baht 181.70 million. Trade and other payables increased by Baht 180.91 million. Long-term loans from financial institutions due within one year increased by Baht 92.92 million.

For the year ended December 31, 2020, 2021 and 2022, the Group had cash collection period of 56.83 days, 56.21 days and 56.27 days, respectively. From 2020 to 2022, cash collection period has no significant changed.

For the year ended December 31, 2020, 2021 and 2022, the Group had average payment period of 14.08 days, 12.63 days and 15.55 days, respectively. The Group made the payment to the supplier according to the payment schedule which reference from the credit term of each supplier. The Group credit term was around 7 – 30 days. The credit term from each supplier determined base on the nature of business and negotiate with the supplier. In addition, the Group also prepare the aging report to monitor the overdue outstanding and the reason of the overdue on monthly basis. From 2020 to 2022, cash payment period has no significant changed.

Profitability Ratio

Profitability Ratio	unit	Consolidated Financial Statement for the year ended, December 31		
		2020	2021	2022
Gross Profit Margin ¹	%	35.92	33.51	27.07
Operation Profit Margin ²	%	33.21	30.55	21.78
Net Profit Margin ³	%	30.23	26.29	18.53
Return on Equity	%	13.23	11.87	9.30

Remark: ¹ Calculate by Gross Profit from Sales & Service / Sales & Service Income

² Calculate by Operating Profit / Sales & Service Income

³ Calculate by Profit (Loss) for the period/ (Sales & Service Income + Construction Income under Concession + Other Income)

For the year ended December 31, 2020, 2021, 2022, return on equity were 13.23%, 11.87% and 9.30%, respectively. ROE of 2021 slightly decreased from 2020 mainly due to the net profit of 2021 was nearly to 2020 while had a higher equity compared to 2020.

For 2022, ROE decreased because the Group had a decreasing in net profit while had a higher equity compared to 2021.

Operation Efficiency Ratio

Operation efficiency Ratio	unit	Consolidated Financial Statement for the year ended, December 31		
		2020	2021	2022
Return on Assets ¹	%	9.86	8.56	6.60
Return on Fixed Assets ²	%	23.34	21.53	17.88

Remark: ¹ Calculate by Net Profit (Loss) / Average Total Assets

² Calculate by (Net Profit+ Depreciation) / Average Total Fixed Assets

For the year ended December 31, 2020, 2021 and 2022, return on assets were 9.86%, 8.56% and 6.60%, respectively. Return on fixed assets were 23.34%, 21.53% and 17.88%, respectively. The ROA of 2021 decreased from 2020 from assets and fixed assets increased while net profit of 2021 was nearly to 2020. The ROA of 2022 decreased from 2021 because of the decreasing of net profit while assets and fixed assets increased due to the investment in the future power plant projects.

Financial Policy Ratio Analysis

Financial Policy Ratio	unit	Consolidated Financial Statement for the year ended, December 31		
		2020	2021	2022
Debt/ Equity	Times	0.37	0.40	0.41
Debt Service Coverage (Cash Basis)	Times	0.61	0.69	0.37
Interest-paying ratio	Times	20.98	15.40	12.32

For the year ended December 31, 2020, 2021 and 2022, Debt to Equity ratio were 0.37 times, 0.40 times and 0.41 times, respectively. For the year 2022, the debt-to-equity ratio has not changed significantly from 2020 and 2021.

For the year ended December 31, 2020, 2021 and 2022, the Group's Debt Service Coverage (Cash Basis) were 0.61 times, 0.69 times and 0.37 times, respectively. In 2021, the ability to pay obligations (Cash basis) increased from the year 2020 due to the Group had cash flow from operating for 2021 nearly to 2020 while used for loan repayment and dividend payment less than 2020. The ability to pay obligations (Cash basis) for the year 2022 decreased from the year 2021 due to the Group had cash flow from operating for 2022 less than the year 2021 while used for loan repayment and dividend payment more than 2021.

For the year ended December 31, 2020, 2021 and 2022, Interest-payment ratio were 20.98 times, and 15.40 times and 12.32 times, respectively. The decrease in 2021 resulted from increasing in finance costs from additional of loans for new investments and under construction projects. The decrease of interest-paying ratio in 2022 due to the decreasing in cash flow from operating according to the decrease in profit before tax and the increase in cash flows used in the change of net working capital.



5. Other Important Information

5.1 Reference

Securities Registrar: Ordinary Share

Company Name	Thailand Securities Depository Co., Ltd.
Head Office Location	93 SET Tower Ratchadaphisek Road, Din Daeng sub-district, Din Daeng, Bangkok 10400
Phone	02-229-2800
Fax	02-359-1259

Auditor

Company Name	PricewaterhouseCoopers ABAS Ltd.
Head Office Location	15th Floor Bangkok City Tower, 179/74-80 South Sathorn Rd., Thungmahamek, Sathorn, Bangkok 10120
Phone	02-344-1000
Fax	02-286-5050

5.2 Legal Disputes

As of December 31, 2022, the Group of companies had 3 cases of litigation cases and legal disputes that might have a negative impact on the Group's assets. Details are as follows;

Case No. 1: Advance Bio Asia Company Limited ("ABA") – Thoen Biomass Power Plant Project (ABA1)

On December 23, 2013, a group of people in Mae Thot sub-district, Thoen district, Lampang province, ("the Plaintiffs"), had filed a lawsuit against ABA as the defendant in the 6th case, to Chiang Mai Administrative Court, requesting that the court revoke the license to operate a power plant of ABA1 (Ror Ngor 4 Permit), without filing a claim for financial damage. During the court trial, the Plaintiffs filed a temporary protection request for the court to order the ABA to suspend operations and construction, in accordance with the license to operate a power plant (Ror Ngor 4 Permit) prior to the verdict. When the court had made an inquiry and had considered the ABA's clarification, it was of the opinion that, there was no sufficient reason to issue an order to suspend the operation and the construction. Therefore, the court has dismissed the request.

Subsequently, on March 30, 2016, the Chiang Mai Administrative Court ruled that, issuing a license to operate a power plant (Ror Ngor 4 Permit) to ABA was lawful and dismissed the case.

On April 29, 2016, the Plaintiffs filed an appeal against the decision of the Chiang Mai Administrative Court to the Supreme Administrative Court. On January 20, 2017, ABA had submitted an appeal, with the conclusion that the issuance of a license to operate a power plant (Ror Ngor 4 Permit) to ABA has been in accordance with the law, therefore requesting the Supreme Administrative Court to confirm in accordance with the judgment of the Chiang Mai Administrative Court, and to cancel the appeal of the Plaintiffs.

As of 31 December 2022, the case is still being considered by the Supreme Administrative Court.

As the Group believes that ABA has a higher chance of winning the cases, the Group has not made any provision regarding the said cases. However, Management of the Group places high importance on the outcome of the lawsuit, and any allegations that may occur in the future from the lawsuit. Litigation, and any actions that may adversely affect the Group, may have a material adverse impact on the Company's operations, financial condition and stock market prices. In addition to disclosing the contingent liabilities from litigation, as stated in the remark stated in the Group's financial statements

Case No. 2: Advance Agro Asia Company Limited ("AAA") - a Natural Gas Power Plant Project (AAA1)

On December 14, 2015, a group of people in Koh Khanun sub-district, Phanom Sarakham district, Chachoengsao ("the Plaintiffs"), had filed a lawsuit against AAA, as the 3rd defendant, to the Rayong Administrative Court, requesting the court to revoke the power plant operation license (Ror Ngor 4 Permit), and requested to withdraw the building construction notification, building modification, building demolition, re-locating the building, and changing the usage of the building, according to Article 39 bis of the Building Control Act 1979 (Notification of Building Construction (39 bis), of AAA1, without making a claim for damages in money. In addition, the Plaintiffs filed a request to the court to suspend the enforcement of the power plant business license. (Ror Ngor 4 Permit), building construction notification (39 bis), and to suspend construction and any other operations, according to the above-mentioned license of AAA1.

Subsequently, on March 31, 2016, the court made the inquiry and had considered the explanation of AAA. The court was of an opinion on the said case, as it had not yet appeared that the issuance of a license to operate a power plant (Ror Ngor 4 Permit), and the receipt for building construction (39 bis) was unlawful. Therefore, the court dismissed the request to suspend the enforcement of the order and to provide the temporary relief.

On April 8, 2020, the Rayong Administrative Court dismissed the case. After that on May 7, 2020, the plaintiffs filed an appeal with the Supreme Administrative Court.

As of December 31, 2022, the case was still under the consideration process by the Rayong Supreme Administrative Court.

As the Group believes that ABA and AAA have a higher chance of winning the cases, the Group has not made any provision regarding the said cases. However, Management of the Group places high importance on the outcome of the lawsuit, and any allegations that may occur in the future from the lawsuit. Litigation, and any actions that may adversely affect the Group, may have a material adverse impact on the Company's operations, financial condition and stock market prices. In addition to disclosing the contingent liabilities from litigation, as stated in the remark stated in the Group's financial statements

Case No. 3: Absolute Clean Engineering and Service Company Limited ("ACES"), Advance Bio Energy Company Limited ("ABE") and Ms. Jiratha Songmetta as a director – Mueang Buriram Power Plant Project (ACES1) and Don Mon Power Plant Project (ABE1)

Two indirect subsidiaries which the Group received the shares transferred from previous shareholders on 21 August 2020, and indirect subsidiaries' director were sued by villagers in Buriram at the Buriram Provincial Court on 29 September 2020. The lawsuit was filed after the shares had been transferred. The villagers claimed that the subsidiaries had violated the Enhancement and Conservation of the National Environmental Quality Act B.E. 2535

and the Public Health Act B.E. 2535 since 2012 to 2020. The damages claimed comprise Baht 129,415,000 together with interest at 7.5% per annum from the day after the filing date until the payment is completed.

On September 20, 2022, the Buriram Provincial Court ordered ACES and ABE to jointly pay damages to the plaintiff in the amount of 34,160,000 baht, plus interest at the rate required by law, counting from the date of filing onwards until payment is completed. In this regard, ACES and ABE have considered the estimation of the damage from such lawsuit based on the opinion of the legal advisor. And since the action alleged to be an infringement as filed above occurred before the Group accepts the transfer of ACES and ABE shares from the existing shareholders, the Group is considering the prosecution as follows. said from the existing shareholders. And on December 7, 2022, two indirect subsidiaries filed an appeal against the judgment of the Buriram Provincial Court.

As at 31 December 2022, the case is under Buriram Provincial Court's consideration.

The action claimed to be an offense under the complaint was an event that occurred before the Company received the transfer of shares of ACES and ABE from the existing shareholders, and before Miss Jiratha Songmetta becomes a director of ACES and ABE. The Group believes that if the court gives a final judgment that ACES or ABE or Miss Jiratha Songmetta have to compensate for the damages, whether in full or in parts, the Company will be able to exercise the rights under the share purchase agreement demanding that the existing shareholders would pay back to the Company.

In addition, the Group of Companies have the litigations which the Group being a prosecutor in the amount of 8 cases, with the details as follows

On June 5, 2017, the Company's Subsidiaries, consisting of AAP, AAPP, ACP, ALCP, and ABA, which has a power purchase agreement with the 2016 FiT announcement (collectively referred to as "Plaintiffs"), filed a lawsuit against the National Energy Policy Council ("The Defendant No. 1"), Energy Regulatory Commission ("The Defendant No. 2"), and the Provincial Electricity Authority ("Defendant No. 3"), to the Central Administrative Court totaling 8 cases, to request for payment of damages from not receiving electricity income at the FiT Premium rate, from the period of January 24, 2015 to March 10, 2016, totaling THB 622,150,282.54. In addition, it was requested for the amendment of the resolution, the announcement, and the addition of the power purchase agreement of the prosecution, to receive FiT benefits, according to the 2015 FiT announcement. If the defendants were unable to proceed, it was requested to have the defendants No.1-3 to join, or on behalf, to pay for damages to the Plaintiffs, totaling THB 3,901,248,000.

On September 9, 2020, the Central Administrative Court decided to conclude that the 2016 FiT announcement only required a reduction of the purchase period for electricity in addition to the illegal COD period. In which the Central Administrative Court stated in the verdict that "... there are observations on the guidelines or methods of carrying out the judgment. In this regard, the defendant No. 2 (ERC) has proceeded to cancel the rules for further reduction of the purchase period of electricity. In addition to the reduction of the time period for which electricity is supplied to the commercial system according to Article 7 (2) of the Notification and to ensure compliance with the revised announcement..." As for other requests, including all such requests for compensation. The Central Administrative Court dismissed the case. The subsidiary company, the plaintiff, has filed an appeal with the Supreme Administrative Court in respect of the judgment dismissed.

As of December 31, 2022, all 8 cases are still in the process of the Supreme Administrative Court's consideration. As a result, there is a risk that the Supreme Administrative Court may not issue a ruling, or may order the defendants to pay for the compensation, or to proceed as requested by the Group, causing uncertainty over the payment of the said damages.



Part 2

Corporate Governance





Convert Agri-Residue to Energy

6. Corporate Governance Policy

6.1 Overview of Corporate Governance Policy and Practice

The Board of Directors pays attention to the compliance to the law, objectives, regulations and resolution of the Board of Directors' meeting, as well as strictly following the Corporate Governance according to the guideline set by the Stock Exchange of Thailand which has been set as the guideline for Company operation to achieve the work efficiency and also bring transparency for the investors which will gain reliability for business operation of the Group to the Public. The policy on Corporate Governance covers 5 categories as follows:

Chapter 1 The Rights of Shareholders

The Company is aware and pays attention to basic rights of the shareholders as the investor of the asset and the owner of the Company, such as the right to purchase, sell, transfer the asset they are holding, rights to receive dividend from the profit of the Company, rights to receive adequate information, and rights in the Shareholders' meeting, right to share opinion, right to make decision on important issues of the Company, such as dividend allocation, appointment or dismissal of Director, appointment of Auditor, approval of important transaction and transaction that affect the business operation, direction of the Group, as well as the amendment to Memorandum of Association and Articles of Association of the Company, etc.

In this regard, the Company has the mission to support and facilitate the use of rights of shareholders as follows:

1. The Company will send the invitation letter together with the information for the meeting according to the agenda to the shareholders in advance and will advertise the meeting arrangement in the local newspaper before the meeting date not fewer than 7 days in advance or any other duration as stated by the law or relevant regulations. In addition, the Company will announce such information in the website of the Company before the Shareholders' meeting.
2. In case the shareholders cannot attend the meeting by themselves, the Company gives the opportunity for the shareholders to assign the proxy to the Company Independent Director or other person to attend the meeting on their behaves.
3. When arranging the Shareholders' meeting, the Company will use the place that is convenient for transportation and select the suitable date and time and arrange the meeting time adequately, in order to comply with the policy on facilitating the shareholders of the Company.
4. In Shareholders' Meeting, the Company gives opportunity to all shareholders to have equal rights to share opinion, suggestion or ask question in the agenda independently before voting in any agenda. The Directors and Management of the Company who are related to the agenda will attend the Shareholders' Meeting to provide answer to the meeting.
5. Before the Shareholders' Meeting, a shareholder or shareholders that own the share or voting rights not fewer than 5 percent of all voting rights of the Company can propose the agenda to the Board of Directors to list as the agenda in the Shareholders' meeting.

For the Annual General Meeting of Shareholders of the Company for the year 2023, the Company has allowed the shareholders to propose the agenda in advance from November 1, 2022 to January 16,

2023. There was no shareholder proposing any agenda for the 2023 Annual General Meeting of Shareholders.

6. After the Shareholders' Meeting ends, the Company will prepare the minutes of meeting that record the complete and correct information to the shareholders to verify.

Chapter 2 The Equitable Treatment of Shareholders

The Company intends to treat all shareholders equally, regardless of the major or minor shareholders, Management or Non-Management shareholders, Thai or foreign shareholders. The details are as follows:

1. In each Shareholder's Meeting, the Company will give an opportunity to all shareholders equally. Before the meeting start, the Chairman of the Meeting will explain the voting method and vote count of the shareholders to be done in each agenda and give an opportunity to all shareholders and the proxies who attend the meeting to show their opinion, suggestion and ask question in each agenda by giving adequate and suitable time. The Chairman of the Meeting will lead the meeting according to the agenda.
2. In the Director election, the Company will give an opportunity to the shareholders to use their right to vote for the Company Director individually. Apart from that, the Company will give an opportunity to the minor shareholders to propose the list of persons to hold the position of the Company Director in advance at an appropriate time together with the supporting data about the qualification and the consent from the person who is proposed.

For the Annual General Meeting of Shareholders of the Company for the year 2023, the Company has allowed the shareholders to propose the agenda in advance from November 1, 2022 to January 16, 2023. There was no shareholder proposing any agenda for the 2023 Annual General Meeting of Shareholders.

3. The Company states that the Company Director must report their interest in any agenda at least before the consideration of the relevant agenda in the Board of Directors' meeting and record such interest in the minutes of the Board of Directors' meeting. Apart from that the Director who has significant interest in the agenda in the manner that cannot independently give their opinion, will be prevented from participating in such agenda of the meeting.
4. The Company has set a guideline for storage and prevention of the use of internal data that is significant and may affect the change of the asset price of the Company. The individual or organization that acknowledge of such internal data are prohibited from using such data to reveal to irrelevant organization or individual until such data has already been revealed to the public. Apart from that, the Company states that the Company Directors, Management, Officers and Employees of the Company and the Subsidiaries that are acknowledge of the internal data that is significant and may affect the change of the asset price of the Company, including the financial information, must refrain from trading the asset of the Company from the date that they are acknowledge of such data or on the last day of each quarter or the ending date of the accounting period of the Company (as the case may be) until the day that the financial statement or such internal data is published to the public for 24 hours. In the case that this statement is violated, the Company will consider such violation as the disciplinary offense and will consider to punish the person as appropriate.

Chapter 3 Consideration on the Role of Stakeholders and Business Ethics

1) Consideration on the Role of Stakeholders

The Company and the Subsidiaries pay attention to the right of all stakeholders, regardless of the internal stakeholders, which are the shareholders and Officers or external stakeholders, which are partners, customers, etc. The Company and the Subsidiaries are aware that the support and opinion from all stakeholders will be useful for the business operation and development of the Company and the Subsidiaries. Therefore, the Company and the Subsidiaries will comply with the related law and regulations so that the rights of the stakeholders are properly taken care of. Apart from that, the Company and the Subsidiaries also consider on the rights of all stakeholders and business ethics according to the following guidelines:

- Shareholders** : The Company and the Subsidiaries will operate the business with transparency and efficiency and will intend to perform good performance and sustainable growth, in order to gain maximum benefits for the shareholders in long term. Apart from that, the Company will also reveal the information with transparency and reliability to the shareholders.
- Officers** : The Company and the Subsidiaries will treat all Officers equally, fairly, and give them appropriate return. Apart from that, the Company and the Subsidiaries also pay attention to the skill, knowledge and potential improvement of the Officers regularly. For example, arranging the course, seminar and training by giving opportunity to all Officers and try to motivate the knowledgeable Officers to stay with the Company and the Subsidiaries to further improve the organization. Furthermore, the Company and the Subsidiaries also set the guideline for anti-corruption and encourage all Officers to strictly comply to the related laws and regulations, such as the regulation preventing the use of internal data, etc.
- Partners** : The Company and the Subsidiaries have the partner selection process that allow the partners to compete on the same data and select the partners with fairness under the evaluation and selection criteria of the Company and the Subsidiaries. Apart from that, the Company and the Subsidiaries also enter into the agreement that is appropriate and fair for all contract parties and provide the monitoring system to ensure that the contract provisions are completely complied to and ensure that there shall be no corruption and inappropriate behavior in all procurement process. The Company and the Subsidiaries purchase products from the partners that meet the condition and comply with the agreement with the partners strictly, as well as keeping the information of partners confidential and will not use such information in an inappropriate way.
- Customers** : The Company and the Subsidiaries are responsible for the customers by maintaining the quality and standard of the service as well as responding to the customers' demand completely and thoroughly in order to focusing in gaining customers' satisfaction in long term. Apart from that, the Company and the Subsidiaries also provide correct information about the services of the Company and the Subsidiaries, as well as providing the contact channel for the customers of the Company and the Subsidiaries to report the problems or the inappropriate service providing, so that the Company and the Subsidiaries can

prevent and correct the problems related to the services of the Company and the Subsidiaries promptly as well as keeping the information of partners confidential and will not use such information in an inappropriate way.

- Lenders** : The Company and the Subsidiaries will comply with the conditions of the agreement with the lenders and will make repayment of the principle, interest and deal with the securities under relevant agreement.
- Competitors** : The Company and the Subsidiaries follow the framework of good competition with ethics and are in the legal framework, as well as supporting and encouraging the Independent and fair competition policy.
- Society and the public** : the Company and the Subsidiaries pay attention to and focus on safety to society, environment and quality of life of relevant persons of the operation of the Company and the Subsidiaries and also encourage the Officers of the Company and the Subsidiaries to have consciousness and responsibility towards environment and society. Apart from that, the Company and the Subsidiaries also strictly comply with the relevant law and regulations. In addition, the Company and the Subsidiaries try to participate in the activities to create and maintain the environment and society, as well as supporting the local culture of the place that the Company and the Subsidiaries operate the business.

Moreover, the stakeholders can ask about the details and report the complaint or the clue of the illegal action and incorrect financial report, defects in internal control system or breach of the business ethics of the Company and the Subsidiaries through Independent Director or Audit Committee of the Company. In this regard, the complaints and the clues reported to the Company will be kept confidential. The Independent Director or the Audit Committee will instruct to examine the information and seek solution (if any) and report to the Board of Directors further.

Channels for submitting complaints (Whistleblowing);

By post to the specified of envelope to one of the whistleblowers as follows;

- Chairman of the Audit Committee (Independent Director)
- Company Secretary

Absolute Clean Energy Public Company Limited

140/6 ITF Tower 7th Floor Silom Rd., Suriyawong, Bangrak, Bangkok 10500

Email: Audit@ace-energy.co.th

2) Business ethics of the Group

Absolute Clean Energy Public Company Limited will run the business with honesty, morality, ethics and responsibility towards nation, religion, the King and comply with the laws and good moral and treat the stakeholders equally and fairly with transparency and Accountability. Apart from that, we will support the development of economics, society, community and environment, to be able to gain worthiness and value at present and in the future to the organization which will lead to stable and sustainable growth at international level.

Definition and Meaning

“Moral” refers to doctrine which is a way to behave or morality

“Ethics” refer to the good behavior that is stated for performing or taking action to other people with fairness.

“Business ethics” refers to the standard of the good behavior that is set up for the Directors, Managements and Officers to follow.

“Company” refers to Absolute Clean Energy Public Company Limited and the Subsidiaries that are under the supervision of the Company, for both the existing one in the present and those to be established in the future.

“Management” refers to Company Director, Executive Board, CEO, COO, Managers of Absolute Clean Energy Public Company Limited and the Companies that are under the supervision of the Company, for both the existing one in the present and those to be established in the future.

“Officers” refer to Officers and employee who work to get the wages from Absolute Clean Energy Public Company Limited and the Subsidiaries under the supervision of the Company, for both the existing one in the present and those to be established in the future.

The Company has a goal to make the Management and Officers at all level of the organization to be responsible for complying with this ethics. The Management must be responsible to create the standard and culture of ethics compliance of the organization by motivating and encourage the Officers to voluntarily comply with the ethics.

Persons who have obligation to follow the ethics

- (A) Managements and Officers of the Company
- (B) The Subsidiaries under the supervision of the Company or has the right to control existing business and those to be established in the future must accept and comply with the ethics of the Company.
- (C) The Subsidiaries that are not under the supervision of the Company should accept and comply with the ethics of the Company.
- (D) External parties who are the representative of the Company, such as consultant, representative and independent contract party must:
 - Give consent to follow the ethics of the Company.
 - Acknowledge about the ethics.
 - Be taken an action, which may include terminating the contract, if the Company knows that any external party violates the ethics of the Company.

Actions that are consider violating the ethics

All Officers are responsible for following and encourage other people to follow the ethics of the Company. Taking the following actions is considered as violating the ethics and will be punished.

- (A) Do not follow the ethics
- (B) Suggest, support or encourage other people to not follow the ethics.
- (C) Ignore and be indifferent when seeing the violation or non-compliance to the ethics, in the case that the person knows, or should have known because it is related to the work under one's responsibility.

(D) Do not cooperate or obstruct the investigation of the fact that there is a violation or non-compliance to the ethics.

(E) Blame, rebuke or threaten the Officers who report the suspecting about the non-compliance to the ethics.

(F) Unfair treatment to other people since the person reports the non-compliance to the ethics.

In this connection, the person who violate or breach the ethics must be disciplinary considered according to the regulations stipulated by the Company. Apart from that, the person may be punished according to the law if such action is illegal.

In addition, the company has established an anti-corruption and bribery policy. (Anti-Corruption and Bribery) and protection and fairness policy for employees who report information or give clues about fraud or non-compliance with the law, rules and regulations of the company and code of business conduct of the company and subsidiaries, having the intention of preventing and anti-corruption, which in addition to having the intention of preventing and anti-corruption. It also has the intention of providing fairness and protection to complainants who report corruption. Including individuals who cooperate in reporting and in the investigation process of corruption at the same time. Whereas the policy on protection and fairness for the employees who inform the information stipulate the method for making a complaint or reporting corruption clues that the complainant must notify in writing to the supervisor directly responsible or send an e-mail to the head of human resources department or the Company's internal audit supervisor.

Chapter 4 Disclosure and Transparency

1. The Company pays attention to the financial statements and financial information shown in the annual report. The Audit Committee will verify the quality of the financial report and internal control system including the disclosure of the important information adequately in the notes to the financial statement and report to the Board of Directors for acknowledgement. Apart from that, the Board of Directors also support the preparation of the explanation and Management Discussion and Analysis to support the disclosure of the financial statement in every quarter.
2. The Company will manage to disclose the information about each Director, role and responsibility of the Board of Directors and Sub-Committee of the Company, number of times of the meeting and the meeting attendance in the past at the headquarters of the Company.
3. The Company will reveal the Audit fee and non-Audit fee that the Auditor has given services to the Company and the Subsidiaries
4. The Company will manage to prepare the report of policy about Corporate Governance, Business Ethics, Risk Management policy and policy about responsibility towards Environment and Society that are approved in summary and the performance of the compliance to such policy, as well as in the case that such policy cannot be complied with, together with the reason.
5. The Board of Directors has a policy on the correct and complete disclosure of important information of the company. reliable, adequate, timely and transparent, including important general information that may affect the Company's securities prices. Investor Relations has been assigned to be a representative in communicating with institutional investors, shareholders. Including general analysts and the relevant government and can be found on the company's website, which is used as a channel for disseminating

information such as information about the company Business information, financial information, Company news that affect investment decisions news notified to the Stock Exchange of Thailand, news of activities of the company, details of shareholder meetings, etc., which will help investors to track company information more conveniently.

The company has prepared a brief investor relations plan and such plans are subject to change depending on the occasion and suitability, which are detailed as follows;

5.1 Organize an analyst meeting once a quarter and in case analysts wish to inquire about additional matters, the company will invite analysts to meet with investor relations on a case-by-case basis.

5.2 Attend the Opportunity Day Activity, organized by Stock Exchange of Thailand every year.

5.3 Arrange roadshow both domestically and internationally at least once a year.

In 2022, even under the COVID-19 pandemic situation, the Company periodically organizes activities for analysts and investors as follows:

Activities in 2021	Times
Quarterly Analyst Meeting	4
Opportunity Day	4
Analysts and Investors Company Visit	5
Roadshow and Conference	1

Chapter 5 Responsibilities of the Board of Directors

1. Structure of the Board of Directors and Sub-Committee

The Board of Directors consists of people who have knowledge, ability and experience that can gain benefits to the Company and the Subsidiaries. They are people who have important roles in setting the policy and overview of the organization, as well as having an important role to supervise, examine and evaluate the performance of the Company and the Subsidiaries to be as planned.

The Board of Directors shall have at least 5 members and there shall be Independent Company Director not fewer than one-third of all Directors and must not be fewer than 3 persons in order to balance the consideration and voting in various subjects appropriately. In this connection, the Company Director has a period to hold the position not more than 3 years at a time according to the relevant laws. The Independent Director has a period to hold the position not more than 9 years, unless the Board of Directors sees that the person is appropriate to continue being the Independent Director of the Company further to maximize the benefits of the Company. Apart from that, Directors and Managements of the Company can hold the position of the Directors or the Managements of the Subsidiaries and/or the Company in the group or other companies. But such position holding must be in accordance with the law and/or relevant regulations and must report to the Board of Directors' meeting for acknowledgement before each position holding.

Apart from that, the Board of Directors also appoints the Sub-Committee to help in Corporate Governance of the Company and the Subsidiaries as follows:

- (1) Audit Committee consist of at least 3 Independent Directors to perform the obligation to support the Board of Directors in compliance and examine the administration, internal control and compliance to the relevant laws, as well as examining the financial report, so that the operation and information disclosure of the Company are done with transparency and reliability.
- (2) Executive Board consist of at least 3 and not more than 10 members to perform the obligation to support the Board of Directors in the administration of the Company and the Subsidiaries to be in accordance with the policy, work plan, regulations and orders, as well as the target set under the framework assigned by the Board of Directors.
- (3) Nomination and Remuneration Committee consist of at least 3 and not more than 5 Directors to perform the obligation to nominate people with appropriate qualification to hold the position of the Directors and high level Managements, consider on the form and criteria of remuneration of the Company Directors, Chairman of the Executive Board, Sub-Committee, CEO and Company Secretary, in order to propose to the Board of Directors for approval and/or to propose to the Shareholders' meeting for approval (as the case may be).

Moreover, the Board of Directors may consider the appropriateness to appoint the Risk Management Working Group Directors to perform the obligation to support the Board of Directors in setting the risk Management policy for the whole organization, supervise to have the risk Management system or process to minimize the impact to the business of the Company and the Subsidiaries appropriately, set the criteria and guidelines for the operations as well as supervise the organization to operate and comply with the policies related to Corporate Governance and propose the risk Management report and suggestion to the Board of Directors.

The Company appoints a Company Secretary to perform the obligation about the arrangement of the Board of Directors' meeting and Shareholders' meeting, as well as supporting the work of the Board of Directors by giving suggestion about the law provision and regulations related to the performance of the Board of Directors, and also coordinate to comply with the resolution of the Board of Directors.

2. Roles, Obligations and Responsibility of the Board of Directors

The Board of Directors are responsible for the Shareholders about the operation of the Company and the Subsidiaries and has the obligation to set the policy and direction of the operation of the Company and the Subsidiaries, as well as supervise the administration to be in accordance with the target and guideline for long term benefit for the shareholders under the legal framework and business ethics. At the same time, the benefits of all stakeholders are also considered. In this regard, the details are as specified in the Board of Directors' Charter.

(1) Policy about Corporate Governance

The Company shall set the policy about Corporate Governance of the Company in writing to propose to the Board of Directors' meeting for approval of such policy. In this regard, the preparation of the Corporate Governance manual has the objective to be the guideline for the Directors, Managements and Officers to comply with such policy. The Company will review the policy on yearly basis.

(2) Business Ethics

The Company and the Subsidiaries have the intention to run the business with transparency, moral, responsibility to stakeholders as well as the society and environment. The

Company and the Subsidiaries has set the Code of Conduct in writing for the Board of Directors, the Managements and Officers to comply with as follows:

- i. Ethics concerning responsibility towards shareholders
- ii. Ethics concerning relationship with customers
- iii. Ethics concerning relationship with partners, competitors and lenders
- iv. Ethics concerning responsibility towards Officers
- v. Ethics concerning responsibility towards society and environment

In this regard, the Company and the Subsidiaries will announce and inform all Officers to acknowledge and strictly comply with.

(1) Conflict of interest

The Company and the Subsidiaries have a policy to carefully eliminate the issue of conflict of interest with honesty, rationale and independence under a good moral for the benefit of the Company and the Subsidiaries by stating that the person who is related or connected to the discussed subject shall reveal the information about their interest and the relevant person to the Company for acknowledgement and must not participate in the consideration and shall not have the approving authority in such matter.

The Company and the Subsidiaries have the policy on the related transaction and the items that have conflict of interest; complying to the law and related regulations.

(2) Internal control

The Company and the Subsidiaries provide the efficient internal control system for supervision and internal control both at the Management and operational level. The Company and the Subsidiaries have employed the external Internal Auditor to perform the examination and evaluation of the adequacy of the internal control system and report to the Audit Committee according to the Audit plan that has been set out.

(3) Risk Management

The Company and the Subsidiaries have set the policy of Risk Management for the whole organization and the compliance, so that there is a risk Management system or process to minimize the impact to the business of the Company and the Subsidiaries appropriately.

(4) Report of the Board of Directors

Audit Committee is responsible for examining the financial report. The Accounting Division and the Auditor will arrange a meeting and propose the financial report to the Board of Directors every quarter. The Board of Directors will be responsible for the consolidated financial statements of the Company and the Subsidiaries, as well as the financial information.

3. The Board of Directors' meeting and self-assessment

The Company arranges the Board of Directors' meeting at least every quarter and there shall be additional special meeting as necessary. The meeting agenda will be distinctly set in advance and there shall be an agenda to follow up the annual performance. The Company will send the invitation letter to all Directors in advance, at least 7 days before the meeting, so that the Board of Directors can study the information with adequate time before the meeting, unless in urgent case and there shall be a minute of meeting recorded and the documents approved shall

be gathered for reference and Accountability. In each meeting, the Management and related persons shall participate to provide information and details for decision making correctly and timely.

When casting the vote in the Board of Directors' meeting, the resolution will be on the majority. One Director shall have one vote and the Directors who are the stakeholder in the agenda will not participate and will not use the right to cast the vote for the agenda. In this regard, in case the voting is tied, the Chairman of the meeting shall cast another vote as a final decision.

Apart from that, the Board of Directors encourages to have the performance assessment at least once a year to improve and correct the operation. The subjects of the meeting shall be set before such assessment in order to gather the opinion and propose to the meeting.

4. Remuneration

Remuneration of the Director is monthly remuneration and meeting allowance. In this regard, the remuneration of the Director must be in the average as compared to the same industry. The adequacy for the performance and responsibility of the Board of Directors shall also be considered. For the Managements, the remuneration will be given as salary and annual bonus by considering on the performance of the Company.

In this connection, the annual remuneration of the Board of Directors and Management in total must not be abnormally high as compared to the remuneration of the Director and Management in average of the listed Company in the Stock Exchange of Thailand and the maximum benefit of the shareholder will be mainly considered.

In this regard, the Company has appointed a Nomination and Remuneration Committee to consider in the form and criteria of remuneration payment for the Director to propose to Shareholders' meeting for approval.

5. Improvement of Company Director and Management

The Board of Directors has a polity to support and facilitate the training and providing knowledge to the related person in the Corporate Governance system of the Company, for example Company Director, Audit Committee, Management and Company Secretary, so that the operation is constantly improved. The training and knowledge provided may be conducted internally in the Company or use the outsourcing services.

In case there is a change of Directors or there is a new Director joining the Company, the Administration Division will prepare the document and data that are useful for the operation of the new Directors, as well as arranging the introduction of the business and the business operation of the Company and the Subsidiaries to the new Director.

The Board of Directors may arrange the work rotation as assigned based on expertise of the Managements and Officers by considering mainly on the appropriateness of work and time. The CEO will set the timeline and consider the performance of such work as the improvement and successor plan of the Company. In this regard, this is to improve the Management and Officers to have more knowledge and ability to work and to be able to work interchangeably.

In addition, the company has set a policy to find executives to succeed in important positions (Succession Plan) in order to prepare replacement or support for the position to have continuity in the appropriate management. It prepares the management to be able to support and be consistent with business expansion and to assess the potential and promote the development of knowledge and skills appropriately.

6.2 Code of Conduct

The Board of Directors' Meeting No.1/2023 held on February 28, 2023 resolved to approve the amendment to the Company's Code of Conduct by adding occupational health and working environment policies, anti-unfair competition policy and information system security policy including adding a topic on the prevention process to prevent repeated violations of business ethics, the monitoring and supervising compliance with the Code of Conduct and whistleblowing in case of violations of business ethics. Therefore, details of the Company's business ethics are as follows:

Scope of Application

The Company has established this Code of Conduct as a standard and it is applicable to executives and employees at all levels of Absolute Clean Energy Public Company Limited ("the Company") and its subsidiaries. The executives and employees are to adhere to their duties as assigned, and they are encouraged to be good role models in performing their duties. Under the Code of Conduct, the executives and employees of the Company and its subsidiaries must be aware, understand, and strictly adhere to their duties. Each person's performance must be efficient, open, and transparent and takes into account the best interests of the Company and its subsidiaries and is fair to all relevant stakeholder groups.

"Executive" means the Chief Executive Officer and executives in positions below the Chief Executive Officer to Department Director.

"Employee" means employees of the Company in a position lower than Department Director, both permanent employees, temporary employees, special contract employees, and contract employees.

Practices

1. Conflict of Interest Policy

1.1 Executives

After the Company has converted to a public limited company and has been listed in the SET, it must comply with the regulations of the Stock Exchange of Thailand, whereby the management must consider conflicts of interest in relation to connected transactions between the Company and its subsidiaries with prudence, honesty, rationale, and independence within a framework of good ethics. Taking into account the interests of the Company is the key to ensure that such transactions are reasonable and mainly for the benefit of the Company.

1.2 Executives and employees

1.2.1 Executives or employees must not do anything that conflicts with the Company's interests, whether directly or indirectly, by himself or jointly with others, whether due to contact with those involved the Company's trade such as business partners, customers, trade competitors, or from the use of opportunities or information obtained as employees for personal gain or from doing business in competition with the Company.

1.2.2 Executives or employees must maintain the Company's interests to the best of their ability.

1.2.3 Executives or employees must not be involved in any business that may affect benefit of the Company or in competition with the Company.

2. Policy on Preservation and Use of Assets and Information / Company Confidentiality

2.1 All methods, processes, ideas, as well as technical knowledge or any other knowledge and/or techniques relating to the business, work, or operations of the Company due to ideas, research, and/or any other actions due to the performance of duties and employment contracts of executives and employees in all cases shall be regarded as the intellectual property of the Company, regardless of whether it is registered or notified by law on intellectual property rights or not. It is forbidden to distribute it without permission of the CEO or a person assigned by the CEO in writing.

2.2 The executive or employee agrees to keep the Company's "trade secrets". all that has been known or had foreseen work for the company which will not be disclosed Forward to any unrelated and necessary person or make a copy. without permission including not to act or refrain from doing anything until causing the status and reputation of the Company damages or causes damage to the company's business. Including throughout will not carry out contracts or become executives or employees or provide advice, consultation, assistance or any contract with any juristic person or business of a person who is a commercial competitor to the Company or conducting business of the same or similar nature as the business of the Company

For the purpose of interpreting this provision. "Trade Secrets" means trade information that is unknown, generally or otherwise inaccessible to individuals who would ordinarily relate to it. which is the information that has commercial benefits as it is confidential and information, the Company has taken appropriate measures to maintain it confidential. Trade secrets may be contained in the Company's regulations, contracts or other agreements. as set forth and will continue to exist or in accordance with the Trade Secret Act B.E. 2545 (including any amendments thereto) stipulates.

2.3 Confidentiality" of any customer's company, contractual party or business partner or any other person. which has been known or has been known as a result of working for the Company except for disclosure The information is as permitted by law or required by law, such as disclosing information under a court order. or by order of any other government official which is authorized by law.

2.4 The Company's executives or employees must be aware of the procedures Data Security Methods and comply with it to prevent confidential information from being unintentionally disclosed.

2.5 The Chief Executive Officer will approve the information to be taken or disclosed to the public.

2.6 Executives or employees must not work for other people. or any other organization which provides benefits during company working hours unless authorized by the Chief Executive Officer or the person assigned by the chairman

2.7 Executives or employees must not use or misuse the Company's Internet assets. for commercial purposes or personal benefit Other than for the benefit of the Company directly

2.8 Executives or employees must strictly adhere to and comply with the Company's information system policies such as

- Must not interfere with the privacy of others in any case
- Must not access confidential company information. It can be used only for the part that the executives or employees are responsible for directly.
- Must adhere to the rules and regulations governing the use of computer equipment and tools
- Must not enter data and document files. of other users without permission

- 2.9 Executives or employees must be aware of and comply with the guidelines for using computer systems and network systems Correct and appropriate
- 2.10 Do not install software, or recorded in the company's computer system
- 2.11 Do not bring the Company's software to any other person. This includes partners, contract parties, customers of the Company, and software implementation to install personally. It also includes using the Internet of employees or connecting to the Internet to data transfer propagation of pornography Sending and receiving information via electronic system (e-mail) that violates the law or copyright law, or contrary to the intent or purpose of the policy or procedure or the company's information system policy regulations or in violation of the Computer Crime Act B.E. 2550 (including any amendments thereto) or other laws
- 2.12 During the performance of the employment contract, executives or employees must refrain from doing any act that may cause the Company to be damaged as a result of data, news, and/or reports, or records, or false or inaccurate communication by any intentional means.
- 2.13 Executives or employees must not infringe the intellectual property of the Company and/or any other companies that have allowed the Company to take advantage of that intellectual property, either by contract and/or by any means, whether it is repetitive or publicly altered, or rent the original or copy it, whether for profit or not. If the executives or employees violate this Code of Conduct, the Company has the right to terminate their employment contracts immediately.
- 2.14 Executives or employees must use the Company's assets with care and be responsible for maintaining any tools or equipment provided by the Company. They should always be in good condition and executives or employees should contact relevant department for repair when the tools or equipment are damaged.
- 2.15 Executives or employees must not violate the rules or the order of the Company that may cause an accident or damage property of the Company.
- 2.16 Executives or employees must protect the Company's assets from being lost or destroyed, even if it is not under their direct responsibility.
- 2.17 Executives or employees must use the Company's equipment or assets for any other purposes than working for the Company.

3. Policy on Gift Giving or Receiving or Entertainment

- 3.1 Executives or employees must not demand, receive, or agree to receive money or any other benefits from business related parties.
- 3.2 Executives or employees may accept or give gifts according to tradition. The acceptance of the gift must not affect any business decision of the recipients.
- 3.3 If executives or employees receive a gift whose value is beyond the norm on a traditional occasion from a person involved in business with the Company, they must report to their supervisors in a hierarchical order.

4. Securities Trading and Inside Information Policy

- 4.1 Executives are obliged to report their securities holdings in accordance with the regulations of the Stock Exchange of Thailand and the Securities and Exchange Commission.
- 4.2 Company, subsidiaries and associated companies of the Company listed in the Stock Exchange of Thailand must comply with the law on the use of inside information by operating with equality and fairness to all

shareholders equally. In order to prevent illegal acts of personnel at all levels of the Company and of all family members who have known or may have received inside information not yet publicly available, the Company prohibits such persons from trading in shares, or soliciting others to buy or sell, or offer to buy or offer for sale shares of the Company's companies, subsidiaries and/or associated companies listed in the SET, either in person or through a broker, while still holding information that has not been released to the public. The Company and the Stock Exchange of Thailand regard such securities trading as speculative trading or gaining of advantages for individuals or groups of individuals. (Please refer to the Company's internal data usage policy for more details.)

- 4.3 The company has set up a security system in the workplace in order to protect confidential files and documents, and has taken limited actions. Access to non-public information that is made known only to those involved and necessary is therefore the responsibility of the owner of the information or the holder of the information that is not yet publicly disclosed. They must instruct those involved to follow the procedure and strict security. Any violation of the use of inside information will be subject to disciplinary action and/or law, as the case may be.

5. Control System Policy and Internal Audit and Accounting and Financial Reporting

- 5.1 Policy on control and internal audit set up an effective internal control and audit system under the audit of the internal auditors and the review of the Audit Committee.

- 5.2 In terms of policy on accounting and financial transactions, the Company's management is responsible for the preparation of financial reports that are accurate, complete, and timely, both annually and quarterly. The reports must be prepared according to accepted accounting standards

5.2.1 Accuracy of Recording

- The Company's records of all business transactions must be accurate, complete, and verifiable, without limitation or exception of any kind.
- Business postings and records must be truthful, without misrepresentation or misrepresentation or false list for any purpose.
- Personnel at all levels must conduct business transactions in accordance with rules and regulations of the Company. They must have supporting documents for business transactions that is complete and provides sufficient and timely useful information to enable those responsible for recording, preparing, and evaluating accounting and financial reports to record and prepare all types of accounting and financial transactions of the Company into the Company's accounting system with accurate and complete details.

5.2.2 Accounting and financial reports

- All executives or employees must not misrepresent, conceal information, or create false entries, whether it is business transaction information related to accounting and finance or operational transaction information.
- All management or employees should be aware that the accuracy of accounting and financial reports is the shared responsibilities of the Board of Directors, executives and employees.
- All executives or employees are responsible for the preparation and/or providing of information related to business transactions.

5.2.3 Best Practices Regarding Legal Compliance

- Personnel at all levels involved must comply with relevant regulations and requirements both in the country and/or abroad in order to keep the Company's accounting and financial records correct and complete.
- Personnel at all levels must adhere to the principles of integrity, impartiality, and integrity in record keeping.

6. Policy on Responsibility to Shareholders

- 6.1 Perform duties with honesty and take any action with fairness to all shareholders.
- 6.2 Report to shareholders on the status of the organization on a regular basis and completely truthfully.
- 6.3 Report to shareholders on the future trends of the organization, both in positive and negative aspects with sufficient supporting reasons.

7. Policy on Treatment of Executives or Employees

- 7.1 Provide fair compensation to executives or employees.
- 7.2 Appointment and transfer of executives or employees including rewards and punishments must be carried out with honesty based on knowledge, competence, and suitability of executives or employees.
- 7.3 Give importance to the development of knowledge, abilities, and skills of employees by providing thorough and consistent opportunities.
- 7.4 Strictly comply with laws and regulations related to management or employees.

8. Policy on Behavior of Executives or Employees

- 8.1 Perform duties with determination, honesty, and transparency.
- 8.2 Respect the rights of executives or employees.
- 8.3 Supervisors should represent themselves to be respected by employees, and employees should not do anything that disrespects their supervisor.
- 8.4 Be disciplined and follow the rules of the Company and good traditions, whether specified in writing or not.
- 8.5 Create and maintain an atmosphere of unity and solidarity among employees. Avoid any action which may affect the reputation of the Company or cause problems for the Company later.

9. Safety, Occupational Health, and Working Environment Policies

- 9.1 Conducting business in accordance with laws, regulations and policies on safety, occupational health and working environment, taking into account the safety of life, property, and health impacts on employees, partners, and stakeholders with constant monitoring and evaluation.
- 9.2 Encouraging work safety by setting regulations, practices, and standards for safety at work as well as improving working conditions and environment to ensure safety at all times.
- 9.3 Employees must comply with the laws on safety, occupational health, working environment, and other relevant requirements and apply them to work in each department to prevent danger and minimize its effect on employees or workers within the Company as much as possible.

- 9.4 Setting preventive measures and operational manuals in order to avoid injury and illness from carrying out various activities within the Company, by focusing on upgrading the management system for continuous development.
- 9.5 Providing an emergency management system by formulating support plans with regular practice to build confidence among employees or workers within the Company, community, and society.
- 9.6 Encouraging the improvement of employees' knowledge and supporting activities on safety, occupational health, and working environment to create awareness among employees at all levels to work properly and safely.
- 9.7 Promoting the participation of employees or workers within the Company in the operation of safety, occupational health, and working environment.

10. Anti-Unfair Competition Policy

- 10.1 The Company will treat commercial competitors under the rules of good and fair competition and cooperate with agencies that oversee trade competition.
- 10.2 The Company will treat commercial competitors equally and fairly based on fair returns to both parties.
- 10.3 The Company will operate within the framework of fair competition.
- 10.4 The Company will not seek confidential information of competitors through dishonest or improper means.
- 10.5 The Company will not damage the reputation of competitors by making malicious accusations without truth.

11. Information Security and Information System Policy

In order for the Company's information system to have good internal control, high security, reliability, continuous operation and the ability to protect and maintain the Company's and its business partners' confidential and personal information, the Board of Directors, executives and all employees must follow information system security policy, other policies, regulations, announcements, orders, and various operational manuals related to the Company, and the **"Information Technology and Communication System Policy"** which covers important areas related to the security maintenance of information and information systems as follows:

- Company Asset Management
- Personnel Security
- Physical and Environmental Security
- Communication Management and Information Network Operations
- Outsourcing Service Management
- Network Security Management
- Information Exchange
- E-commerce Services Security Provision
- System Access Check
- Access Control
- Use of Portable Computer Devices
- Procurement, Development, and Maintenance of Information System
- Data Encryption

- Service System File Security Provision
- Security Incident Management
- Business Continuity Management
- Protection against Malicious Programs

Procedures for Prevention of Recurrence of Business Ethics Violations

The Company's Code of Conduct is considered one of the disciplines the Board of Directors, executives, and all employees must maintain and follow. Those who violate or fail to comply will be subject to disciplinary action in accordance with the work rules and regulations.

Monitoring and Supervision of Code of Conduct Compliance

The Company stipulates that it is the duty and responsibility of all directors, executives, and employees to acknowledge, understand, and strictly follow the policies and practices set forth in this Code of Conduct. It cannot be claimed that they are not aware of these established guidelines, which executives at all levels in the Company must take responsibility for and ensure that all employees under their chain of command know, understand, and comply with in order to achieve business goals and maintain business ethics for the benefit of shareholders, stakeholders, the Company, and society. The Company does not tolerate any action that is illegal and contrary to good ethics. Should directors, executives, and employees violate the specified Code of Conduct, they shall be subject to disciplinary action specified by the Company. If the action is believed to be illegal or against the rules, regulations, or laws of the country, the Company shall forward the matter to government officials for further action without delay.

Whistleblowing in Case of Business Ethics Violations

Any violation of laws, rules, regulations, code of conduct, or policies of the Company, or such a violation by consent of the supervisor must be reported or its clues must be provided in accordance with the procedures set forth in **“Policy for Protection and Fairness to Employees who Report or Provide Clues about Corruption or Non-compliance with Laws, Rules, Regulations, and Code of Conduct of the Company and its Subsidiaries”** and other related policies, regulations, announcements, or orders of the Company.

Review

The Company will review the Code of Conduct every two (2) years to be appropriate for the changing business circumstances and environment.

6.3 Major Change to Corporate Governance Policy in the Past Year

In 2022, the Company has set new policies and amended some policies without establishing a new charter as follows:

1. Establishment of a personal data protection policy in order to comply with the Personal Data Protection Act B.E. 2562.
2. Amendment of important accounting policies of the Company pertaining to “biological assets” as follows:

“2.7 Biological assets

Biological assets are measured at fair value less costs to sell.

Fair value can be determined in one of the following ways:

- 1) The market price of biological assets at the measurement date.
- 2) Present value of net cash flows from biological assets expected to be received which is derived from the projection of the biological asset's market price.
- 3) Cost price (in case the biological transformation has occurred slightly since the initial cost incurred; or such biological transformation is not expected to significantly affect the price).

The management shall exercise their discretion to determine how to measure the fair value of biological assets. Cost of selling refers to incremental costs directly attributable to the selling of biological assets. Crops or animals for produce related to agricultural activities are listed and recorded as property, plants, and equipment. However, the resulting produce is considered a biological asset until the point of harvest, and will be transferred to the cost of inventories at their fair value less costs to sell at the point of harvest. Change in fair value less costs to sell of biological assets will be recognized in profit or loss.”

3. Amendment of the principle of trade agreements with general trading conditions in transactions between the Company and/or subsidiaries, directors, executives, or related persons (“connected person”). The amended parts are the types of normal business transactions and supporting normal business transactions and connected persons because the Company and/or its subsidiaries may have such amended transactions with connected persons in the future.



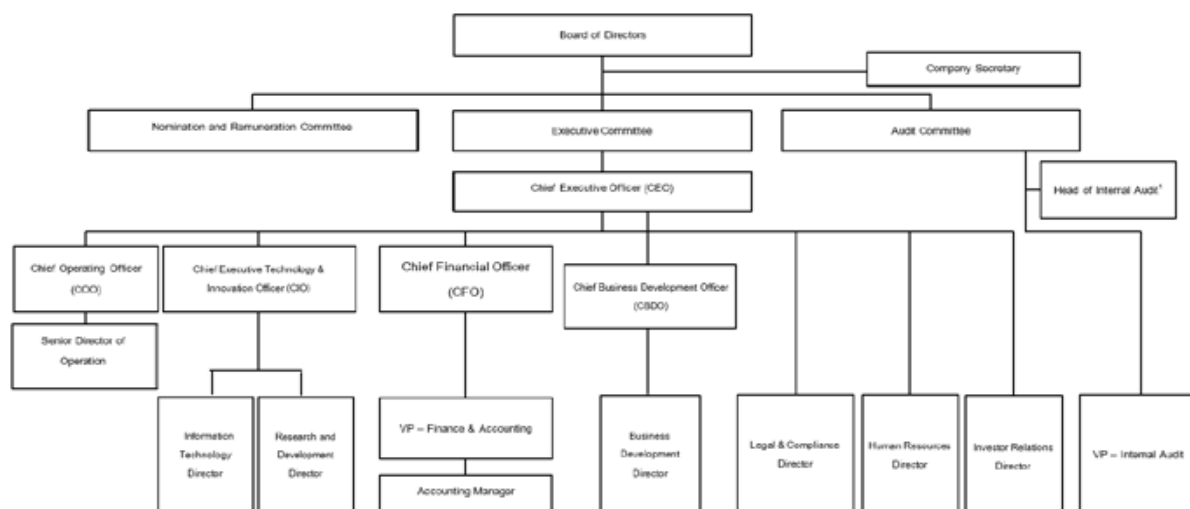


7. Corporate Governance Structure and Information of Board of Directors, Sub-Committee, Management, Employees and Others

7.1 Corporate Governance Structure

Organization Structure

Organization Structure of the Company for the year ended December 31, 2022



Note: The audit committee acknowledge to appoint Ms. Wanvimol Jongsureeyapat, the executive committee of P&L Internal Audit Co., Ltd. to be the Chairperson of the internal audit department, according to the resolution of the Audit Committee Meeting No.1/2018 on September 15, 2017.

7.2 Board of Directors



Mr. Monton Sudprasert

Chairman of the Board of Directors / Independent Director



Mr. Charoon Intachan

Director and Independent Director



Ms. Chonticha Chitraporn

Chairman of Audit Committee
and Independent Director



Mr. Nuekrak Baingern

Director, Independent Director and Member of Audit Committee
and Member of the Nomination and Remuneration Committee



Mrs. Patchanee Sutheevitanunt

Member of the Audit Committee,
Director and Independent Director and
Chairman of the Nomination and Remuneration Committee



Ms. Jiratha Songmetta

Director, Member of the Nomination and
Remuneration Committee and Chairman of Executive Committee



Mr. Teerawut Songmetta

Director Executive director and
Chief Executive Technology & Innovation Officer



Mr. Pornmett Songmetta

Director, Executive Director and Chief Operating Officer



Mr. Tanavijit Ankapipatchai

Director, Executive Director and Chief Financial Officer



Mr. Tanachai Bunditvorapoom

Director, Chief Executive Office and Executive Director



Mr. Monton Sudprasert

Chairman of the Board of Directors / Independent Director

Position Appointment Date

28 April 2021 Chairman of the Board of Directors /
Independent Director

Age 62 years

Education Trainings and Seminar

- Bachelor of Engineering (Civil),
King Mongkut's University Thonburi
- Master of Engineering (Sanitation), Chulalongkorn University
- Master of Public Administration, Chulalongkorn University
- National Defense College of Thailand class 2009
- Qualification Engineer in Civil Engineering
- Intermediate Executive Program, Class 9,
Department of Public Works
- Senior Administrator Course, Class 48, Ministry of Interior
- Government Administration and Public Law Course, Class 6,
King Prajadhipok's Institute
- OCSC scholarship, Thai Senior Executive Development Program
at Nation Graduate Institute for Policy Studies (GRIPS), Japan.
- Training Courses for the Development of Senior Executives,
Government Agency Executives Class 3

Shareholding Ratio in the Company (%) (on 31 Dec 2022)

- None -

Family Relationship with Director and Executive

- None -

Work Experience

2021 - Present	Chairman of the Board of Directors and Independent Director Absolute Clean Energy Public Company Limited
2012 - 2020	Director General Department of Public Works and Town & Country Planning
2010 - 2012	Deputy Director-General Department of Public Works and Town & Country Planning
2009 - 2010	Director of the Office of Urban Planning Support and Development Department of Public Works and Town & Country Planning
2008 - 2009	Inspector General, Department of Public Works and Town & Country Planning Department of Public Works and Town & Country Planning
2005 - 2008	Professional Engineer Level 9 (Civil Engineering), Bureau of Construction and System Engineering Department of Public Works and Town & Country Planning



Mr. Charoon Intachan

Director and Independent Director

Position Appointment Date

14 July 2018 Director and Independent Director

Age 79 years

Education Trainings and Seminar

- Ph.D. (Public Administration), Eastern Asia University
- Ph.D. (Public Administration), Western University
- M.A. (Political Science), Ramkhamhaeng University
- Barrister-at-law, The Thai Bar Association
- Bachelor of Laws, Thammasat University
- Director Certification Program DCP (176/2013), Thai Institute of Directors
- Training Course of Capital Market Academy (DMA 13), Thai Institute of Directors
- Top Executive Program in Commerce and Trade (TEPCot 4), Thai Institute of Directors

Shareholding Ratio in the Company (%) (on 31 Dec 2022)

- None -

Family Relationship with Director and Executive

- None -

Work Experience

2018 - Present	Director Independent Director Absolute Clean Energy Public Company Limited
2015 - Present	Director of Council of State Council of State
2015 - Present	Independent Director Bangkok Post Public Company Limited
2016 - 2018	Honorary Member Suratthani Rajabhat University Council
2014 - 2015	Constitution Drafting Committee The Secretariat of the House of Representatives
2013 - 2014	President of the Constitutional Court The Constitutional Court



Ms. Chonticha Chitrarnporn

Chairman of Audit Committee
and Independent Director

Position Appointment Date

29 June 2017 Chairman of Audit Committee
and Independent Director

Age 65 years

Education Trainings and Seminar

- Master Degree in Applied Economics, Faculty of Economics, University of Michigan, USA
- Master Degree in Language and International Trade, Faculty of Economics, Eastern Michigan University, USA
- Bachelor Degree in Accounting, Thammasat University, Thailand
- Director Accreditation Program (DAP 143/2017), Thai Institute of Directors
- Advanced Audit Committee Program AACP (33/2019), Thai Institute of Directors
- Seminar on Accounting knowledge that AC should not miss by the SEC on 22 July 2022
- Seminar on Value of Audit by SEC on 2 December 2022

Shareholding Ratio in the Company (%) (on 31 Dec 2022)

- None -

Family Relationship with Director and Executive

- None -

Work Experience

2022 - Present	Investment Consultant Thai Red Cross Society
2022 - Present	Chairman of the Audit Committee/ Independent Director Qualitech Public Company Limited
2020 - Present	Chairman of the Corporate Governance Committee, Audit Committee, Risk Management Committee, Independent Director Major Cineplex Group Public Company Limited
2017 - Present	Chairman of Audit Committee Independent Director Absolute Clean Energy Public Company Limited
2018 - 2021	Chairman of the Risk Management Committee, Audit Committee, Director and Independent Director Advance Life Assurance Public Company Limited
2018 - 2021	Director, Independent Director, and Audit Committee International Research Corporation Public Company Limited
2014 - 2020	Member of the Risk Management Committee Dhanarak Asset Development Company Limited



Mr. Nuekrak Baingern

Director, Independent Director and Member of Audit Committee and Member of the Nomination and Remuneration Committee

Position Appointment Date

29 June 2017	Director, Independent Director and Member of Audit Committee
15 September 2017	Member of the Nomination and Remuneration Committee

Age 68 years

Education Trainings and Seminar

- MBA, Faculty of Administration, University of Detroit, Michigan, USA
- Bachelor of Commerce, Major in Marketing, Chulalongkorn University, Thailand
- Director Accreditation Program (DAP 143/2017), Thai Institute of Directors
- Seminar on Accounting knowledge that AC should not miss by the SEC on 22 July 2022
- Seminar on Value of Audit by SEC on 2 December 2022

Shareholding Ratio in the Company (%) (on 31 Dec 2022)

- None -

Family Relationship with Director and Executive

- None -

Work Experience

2017 - Present	Director, Independent Director, Audit Committee, Nomination and Remuneration Committee Absolute Clean Energy Public Company Limited
2018 - 2021	Chairman of the Audit Committee, Director and Independent Director Advance Life Assurance Public Company Limited
2014 - 2020	Managing Partner Punyapol Limited Partnership
2012 - 2016	Advisor - Project Management and Information Technology Advance Life Assurance Public Company Limited
2000 - 2012	Executive Vice President-Operation CIMB Thai Bank Public Company Limited



Mrs. Patchanee Sutheevitanunt

Member of the Audit Committee,
Director and Independent Director and
Chairman of the Nomination and Remuneration Committee

Position Appointment Date

29 June 2017	Member of the Audit Committee, Director and Independent Director
15 September 2017	Chairman of the Nomination and Remuneration Committee

Age 67 years

Education Trainings and Seminar

- MA in Counseling Psychology, Faculty of Psychology, Spalding University, USA
- Bachelor of Liberal Arts, Psychology, Thammasat University, Thailand
- Director Accreditation Program (DAP 143/2017), Thai Institute of Directors
- Seminar on Accounting knowledge that AC should not miss by the SEC on 22 July 2022
- Seminar on Value of Audit by SEC on 2 December 2022

Shareholding Ratio in the Company (%) (on 31 Dec 2022)

- None -

Family Relationship with Director and Executive

- None -

Work Experience

2017 - Present	Chairman of Nomination and Remuneration Committee, Audit Committee, Director, and Independent Director Absolute Clean Energy Public Company Limited
2018 - 2021	Director Advance Life Assurance Public Company Limited
2015 - 2016	Director Advance Life Assurance Public Company Limited
2013 - 2016	Executive Consultant Advance Life Assurance Public Company Limited



Ms. Jiratha Songmetta

Director, Member of the Nomination and Remuneration Committee and Chairman of Executive Committee

Former name

Ms. Siriwan Dumnernchanvanit Songmetta

Position Appointment Date

3 December 2015	Director
15 September 2017	Member of the Nomination and Remuneration Committee
15 September 2017	Chairman of Executive Committee

Age 64 years

Education Trainings and Seminar

- Bachelor of Business Administration, Ramkhamhaeng University
- Advanced Financial Management Course (Mini MBA), Thammasat University
- Director Certification Program (DCP 4/2000), Thai Institute of Directors
- The Rule of Law for Democracy (Class 2), 2014 The Office of the Constitutional Court
- The National Defence Course for The Joint State - Private Sector, (Class 22), 2010, National Defence Studies Institute / National Defence College
- The Programme for Senior Executives on Justice Administration Batch 13, 2009, National Justice Academy, Judicial Training Institute / Office of Judiciary
- Tax Law Certificate, 2009, Institute of Training, Research and Development for Tax Law / Central Tax Court

Shareholding Ratio in the Company (%) (on 31 Dec 2022)

- None -

Family Relationship with Director and Executive

- Wife (status: divorce) of Pol.Gen.Dr. Wirachai Songmetta, Shareholder who owns 22.43% of the Company's shares.
- Mother of Mr. Teerawut Songmetta, Director and Shareholder who owns 17.89% of the Company's shares.
- Mother of Mr. Nath Songmetta, Shareholder who owns 14.99% of the Company's shares.
- Mother of Mr. Pornmett Songmetta Director and Shareholder who owns 20.53% of the Company's shares.

Work Experience

Dec. 2015 - Present	Director	Absolute Clean Energy Public Company Limited
Sep. 2017 - Present	Chairman of Executive Committee	Absolute Clean Energy Public Company Limited
Sep. 2017 - Present	Member of the Nomination and Remuneration Committee	Absolute Clean Energy Public Company Limited
Jun. 2012 - Present	Chairman of the Board of Directors	Asian Clean Energy Company Limited
Dec. 2009 - Present	Chairman of the Board of Directors	Advance Agro Asia Company Limited
Nov. 2013 - Present	Chairman of the Board of Directors	Alliance Clean Power Company Limited
Nov. 2012 - Present	Chairman of the Board of Directors	Advance Clean Power Company Limited
Nov. 2012 - Present	Chairman of the Board of Directors	Advance Agro Power Plant Company Limited
Feb. 2014 - Present	Chairman of the Board of Directors	Advance Asia Power Plant Company Limited
Nov. 2013 - Present	Chairman of the Board of Directors	Advance Bio Asia Company Limited
Oct. 2016 - Present	Chairman of the Board of Directors	Advance Farm Tree Company Limited
Oct. 2016 - Present	Chairman of the Board of Directors	ACE Solar Company Limited
Oct. 2016 - Present	Chairman of the Board of Directors	Bio Power Plant Company Limited
Oct. 2018 - Present	Chairman of the Board of Directors	Absolute Clean Water Company Limited (Former: Prasatporn Rungrueng Company Limited)
May 2018 - Present	Chairman of the Board of Directors	Power Supply & Maintenance Service Company Limited

Work Experience (Cont.)

Mar. 2020 - Present	Chairman of the Board of Directors Provincial Renewable Energy (Thailand) Company Limited
Mar. 2020 - Present	Chairman of the Board of Directors Renewable Energy Siam Company Limited
Mar. 2020 - Present	Chairman of the Board of Directors Renewable Energy (North) Company Limited
Mar. 2020 - Present	Chairman of the Board of Directors Renewable Energy (Central) Company Limited
Mar. 2020 - Present	Chairman of the Board of Directors Renewable Energy (Northeast) Company Limited
Aug. 2020 - Present	Chairman of the Board of Directors Absolute Clean Engineering & Service Limited (Former: Satuek Biomass Company Limited, UWC Busaracum Biomass Company Limited)
Aug. 2020 - Present	Chairman of the Board of Directors Advance Bio Energy Company Limited (Former: UWC Amphan Biomass Company Limited, Advance Biopower Company Limited)
Aug. 2020 - Present	Chairman of the Board of Directors Advance Asia Energy Company Limited (Former: UWC Gomen Biomass Company Limited, TRC Clean Energy Company Limited)
May 2022 - Present	Chairman of the Board of Directors National Clean Energy Company Limited
May 2022 - Present	Chairman of the Board of Directors Absolute Power Plant Company Limited



Mr. Teerawut Songmetta

Director Executive director and
Chief Executive Technology & Innovation Officer

Position Appointment Date

3 December 2015	Director
28 February 2018	Executive director
1 March 2018	Chief Executive Technology & Innovation Officer

Age 33 years

Education Trainings and Seminar

- Bachelor Degree, Industrial and Enterprise Systems Engineering, University of Illinois at Urbana Champaign, USA
- Director Accreditation Program (DAP 146/2018), Thai Institute of Directors

Shareholding Ratio in the Company (%) (on 31 Dec 2022)

17.95%

Family Relationship with Director and Executive

- Son of Pol.Ge.Dr. Wirachai Songmetta, Shareholder who owns 22.43% of the Company's shares and Mrs. Jiratha Songmetta, Director, Nomination and Remuneration Committee, and the Company Executive Chairman.
- Older brother of Mr. Nath Songmetta, Shareholder who owns 15.52% of the Company's shares.
- Older brother of Mr.Pornmett Songmatta, Director and Shareholder who owns 20.53% of the Company's shares.

Work Experience

Dec. 2015 - Present	Director Absolute Clean Energy Public Company Limited
Feb. 2018 - Present	Executive Director Absolute Clean Energy Public Company Limited
Mar. 2018 - Present	Chief Executive Technology & Innovation Officer Absolute Clean Energy Public Company Limited
Oct. 2018 - Present	Director Asian Clean Energy Company Limited
Nov. 2014 - Present	Director Advance Agro Asia Company Limited
Nov. 2014 - Present	Director Alliance Clean Power Company Limited
Nov. 2014 - Present	Director Advance Clean Power Company Limited
Nov. 2014 - Present	Director Advance Agro Power Plant Company Limited
Nov. 2014 - Present	Director Advance Asia Power Plant Company Limited
Nov. 2014 - Present	Director Advance Asia Power Plant Company Limited
Nov. 2014 - Present	Director Advance Bio Asia Company Limited
Oct. 2016 - Present	Director Advance Farm Tree Company Limited
Oct. 2016 - Present	Director ACE Solar Company Limited
Oct. 2016 - Present	Director Bio Power Plant Company Limited
Oct. 2018 - Present	Director Absolute Clean Water Company Limited (Former: Prasatporn Rungrueng Company Limited)
May 2018 - Present	Director Power Supply & Maintenance Service Company Limited
Mar. 2020 - Present	Director Provincial Renewable Energy (Thailand) Company Limited
Mar. 2020 - Present	Director Renewable Energy Siam Company Limited
Mar. 2020 - Present	Director Renewable Energy (North) Company Limited
Mar. 2020 - Present	Director Renewable Energy (Central) Company Limited
Mar. 2020 - Present	Director Renewable Energy (Northeast) Company Limited

Work Experience (Cont.)

Aug. 2020 - Present Director
Absolute Clean Engineering & Service Limited
(Former: Satuk Biomass Company Limited,
UWC Busaracum Biomass Company Limited)

Aug. 2020 - Present Director
Advance Bio Energy Company Limited
(Former: UWC Amber Biomass Company Limited,
Advance Biopower Company Limited)

Aug. 2020 - Present Director
Advance Asia Energy Company Limited
(Former: UWC Garnet Biomass Company Limited,
TRC Clean Energy Company Limited)

Mar. 2020 - Present Director / Chief Executive Officer
Khun Tan Progress Community Power Plant
Company Limited

Mar. 2020 - Present Director / Chief Executive Officer
Khun Tan Phatthana Community Power Plant
Company Limited

Mar. 2020 - Present Director / Chief Executive Officer
Khun Tan Community Power Plant Company Limited

Mar. 2020 - Present Director / Chief Executive Officer
Rang Bua Progress Community Power Plant
Company Limited

Mar. 2020 - Present Director / Chief Executive Officer
Chom Bueng Rung Ruang Community Power Plant
Company Limited

Apr. 2020 - Present Director / Chief Executive Officer
Khun Tan Rung Ruang Community Power Plant
Company Limited

May 2020 - Present Director / Chief Executive Officer
Kamphaeng Phet Kao Klai Community
Power Plant Company Limited

May 2020 - Present Director / Chief Executive Officer
Buriram Ruamjai Community Power Plant
Company Limited

Mar. 2020 - Present Director / Chief Executive Officer
Kamphaeng Phet Phatthana Community
Power Plant Company Limited

Mar. 2020 - Present Director / Chief Executive Officer
Khun Tan Ruam Jai Community Power Plant
Company Limited

Apr. 2020 - Present Director / Chief Executive Officer
Tarrungrueng Community Power Plant
Company Limited

Apr. 2020 - Present Director / Chief Executive Officer
Khanu Woralaksaburi Community Power Plant
Company Limited

Apr. 2020 - Present Director / Chief Executive Officer
Kamphaeng Phet Community Power Plant
Company Limited

Mar. 2020 - Present Director / Chief Executive Officer
Khlung Khlung Pattana Community Power Plant
Company Limited

Mar. 2020 - Present Director / Chief Executive Officer
Ta Phatthana Community Power Plant
Company Limited

Apr. 2020 - Present Director / Chief Executive Officer
Nong Hong Community Power Plant
Company Limited

Apr. 2020 - Present Director / Chief Executive Officer
Ta Progressive Community Power Plant
Company Limited

Apr. 2020 - Present Director / Chief Executive Officer
Ta Community Power Plant Company Limited

Apr. 2020 - Present Director
National Clean Energy Company Limited

Apr. 2020 - Present Director
Absolute Power Plant Company Limited



Mr. Pornmett Songmetta

Director, Executive Director and Chief Operating Officer

Position Appointment Date

3 December 2015	Director
15 September 2017	Executive director
1 March 2018	Chief Operating Officer

Age 30 years

Education Trainings and Seminar

- Bachelor of International Business Management, International Program, Chulalongkorn University
- Director Accreditation Program (DAP 139/2017), Thai Institute of Directors
- Institute of Business and Industrial Development IBD (5/2018), Institute of Business and Industrial Development

Shareholding Ratio in the Company (%) (on 31 Dec 2022)

20.53%

Family Relationship with Director and Executive

- Son of Pol.Ge.Dr. Wirachai Songmetta, Shareholder who owns 22.43% of the Company's shares and Mrs. Jiratha Songmetta, Director, Nomination and Remuneration Committee, and the Company Executive Chairman.
- Younger brother of Mr. Teerawut Songmetta, Shareholder who owns 17.95% of the Company's shares.
- Younger brother of Mr. Nath Songmetta, Shareholder who owns 15.52% of the company's shares.

Work Experience

Dec. 2015 - Present	Director	Absolute Clean Energy Public Company Limited
Sep. 2017 - Present	Executive Director	Absolute Clean Energy Public Company Limited
Mar. 2018 - Present	Chief Operating Officer	Absolute Clean Energy Public Company Limited
Oct. 2015 - Present	Director	Asian Clean Energy Company Limited
July 2019 - Present	Chief Operating Officer	Asian Clean Energy Company Limited
Feb. 2017 - Present	Director	Advance Agro Asia Company Limited
Feb. 2017 - Present	Director	Alliance Clean Power Company Limited
Apr. 2019 - Present	Chief Executive Officer	Alliance Clean Power Company Limited
Mar. 2017 - Present	Director	Advance Clean Power Company Limited
Apr. 2019 - Present	Chief Executive Officer	Advance Clean Power Company Limited
Feb. 2017 - Present	Director	Advance Agro Power Plant Company Limited
Apr. 2019 - Present	Chief Executive Officer	Advance Agro Power Plant Company Limited
Feb. 2017 - Present	Director	Advance Asia Power Plant Company Limited
Apr. 2019 - Present	Chief Executive Officer	Advance Asia Power Plant Company Limited
Feb. 2017 - Present	Director	Advance Bio Asia Company Limited
Apr. 2019 - Present	Chief Executive Officer	Advance Bio Asia Company Limited
Feb. 2017 - Present	Director	Advance Farm Tree Company Limited
July 2019 - Present	Chief Executive Officer	Advance Farm Tree Company Limited
Feb. 2017 - Present	Director	ACE Solar Company Limited
July 2019 - Present	Chief Executive Officer	ACE Solar Company Limited
Feb. 2017 - Present	Director	Bio Power Plant Company Limited
July 2019 - Present	Chief Executive Officer	Bio Power Plant Company Limited
Oct. 2018 - Present	Director	Absolute Clean Water Company Limited (Former: Prasatporn Rungrueng Company Limited)

Work Experience (Cont.)

July 2019 - Present Chief Executive Officer
Absolute Clean Water Company Limited
(Former: Prasatporn Rungrueng Company Limited)

May 2018 - Present Director
Power Supply & Maintenance Service
Company Limited

July 2019 - Present Chief Executive Officer
Power Supply & Maintenance Service
Company Limited

Mar. 2020 - Present Director
Provincial Renewable Energy
(Thailand) Company Limited

Mar. 2020 - Present Director
Renewable Energy Siam Company Limited

Mar. 2020 - Present Director
Renewable Energy (North) Company Limited

Mar. 2020 - Present Director
Renewable Energy (Central) Company Limited

Mar. 2020 - Present Director
Renewable Energy (Northeast) Company Limited

Aug. 2020 - Present Director
Absolute Clean Engineering & Service Limited
(Former: Satuk Biomass Company Limited,
UWC Busaracum Biomass Company Limited)

Dec. 2020 - Present Chief Executive Officer
Absolute Clean Engineering & Service Limited
(Former: Satuk Biomass Company Limited,
UWC Busaracum Biomass Company Limited)

Aug. 2020 - Present Director
Advance Bio Energy Company Limited
(Former: UWC Amber Biomass Company Limited,
Advance Biopower Company Limited)

Dec. 2020 - Present Chief Executive Officer
Advance Bio Energy Company Limited
(Former: UWC Amber Biomass Company Limited,
Advance Biopower Company Limited)

Aug. 2020 - Present Director
Advance Asia Energy Company Limited
(Former: UWC Garnet Biomass Company Limited,
TRC Clean Energy Company Limited)

Dec. 2020 - Present Chief Executive Officer
Advance Asia Energy Company Limited
(Former: UWC Garnet Biomass Company Limited,
TRC Clean Energy Company Limited)

Mar. 2020 - Present Director
Khun Tan Progress Community Power Plant
Company Limited

Mar. 2020 - Present Director
Khun Tan Phatthana Community Power Plant
Company Limited

Mar. 2020 - Present Director
Khun Tan Community Power Plant Company Limited

Mar. 2020 - Present Director
Rang Bua Progress Community Power Plant
Company Limited

May 2020 - Present Director
Chom Bueng Rung Ruang Community Power Plant
Company Limited

Mar. 2020 - Present Director
Khun Tan Rung Ruang Community Power Plant
Company Limited

Apr. 2020 - Present Director
Kamphaeng Phet Kao Klai Community
Power Plant Company Limited

May 2020 - Present Director
Buriram Ruamjai Community Power Plant
Company Limited

May 2020 - Present Director
Kamphaeng Phet Phatthana Community
Power Plant Company Limited

Mar. 2020 - Present Director
Tarrungrueng Community Power Plant
Company Limited

Apr. 2020 - Present Director
Khanu Woralaksaburi Community Power Plant
Company Limited

Apr. 2020 - Present Director
Kamphaeng Phet Community Power Plant
Company Limited

Apr. 2020 - Present Director
Khlong Khlung Pattana Community Power Plant
Company Limited

Mar. 2020 - Present Director
Ta Phatthana Community Power Plant
Company Limited

Mar. 2020 - Present Director
Nong Hong Community Power Plant
Company Limited

Apr. 2020 - Present Director
Ta Progressive Community Power Plant
Company Limited

Apr. 2020 - Present Director
Ta Community Power Plant Company Limited

Apr. 2020 - Present Director / Chief Executive Officer
National Clean Energy Company Limited

Apr. 2020 - Present Director / Chief Executive Officer
Absolute Power Plant Company Limited



Mr. Tanavijit Ankapiatchai

Director, Executive Director and Chief Financial Officer

Former name

Mr. Vijit Ankapiatchai

Position Appointment Date

3 December 2015	Director
15 September 2017	Executive Director
1 March 2018	Chief Financial Officer

Age 59 years

Education Trainings and Seminar

- Bachelor of Accounting, Faculty of Commerce and Accountancy, Thammasat University
- Directors Certification Program (Class DCP 45/2004), Thai Institute of Directors
- Orientation Course - CFO Focus on Financial Reporting, Class 1/2018

Shareholding Ratio in the Company (%) (on 31 Dec 2022)

0.0%

Family Relationship with Director and Executive

- None -

Work Experience

Mar. 2018 - Present	Chief Financial Officer Absolute Clean Energy Public Company Limited
Sep. 2017 - Present	Executive Director Absolute Clean Energy Public Company Limited
Dec. 2015 - Present	Director Absolute Clean Energy Public Company Limited
Feb. 2017 - Present	Director Asian Clean Energy Company Limited
Jan. 2013 - Present	Director Advance Agro Asia Company Limited
Nov. 2013 - Present	Director Alliance Clean Power Company Limited
Nov. 2013 - Present	Director Advance Clean Power Company Limited
July 2006 - Present	Director Advance Agro Power Plant Company Limited
Feb. 2014 - Present	Director Advance Asia Power Plant Company Limited
Nov. 2013 - Present	Director Advance Bio Asia Company Limited
Jun. 2008 - Present	Director Advance Farm Tree Company Limited
July 2006 - Present	Director ACE Solar Company Limited
July 2006 - Present	Director Bio Power Plant Company Limited
Feb. 2018 - Present	Director Power Supply & Maintenance Service Company Limited
July 2006 - Present	Director Absolute Clean Water Company Limited (Former: Prasatporn Rungrueng Company Limited)
Jan. 2015 - Feb 2018	Co-Chief Executive Office Advance Agro Asia Company Limited
Mar. 2020 - Present	Director Provincial Renewable Energy (Thailand) Company Limited
Mar. 2020 - Present	Director Renewable Energy Siam Company Limited
Mar. 2020 - Present	Director Renewable Energy (North) Company Limited
Mar. 2020 - Present	Director Renewable Energy (Central) Company Limited

Work Experience (Cont.)

Mar. 2020 - Present Director
Renewable Energy (Northeast) Company Limited

Aug. 2020 - Present Absolute Clean Engineering & Service Limited
(Former: Satuk Biomass Company Limited,
UWC Busaracum Biomass Company Limited)

Aug. 2020 - Present Director
Advance Bio Energy Company Limited
(Former: UWC Amber Biomass Company Limited,
Advance Biopower Company Limited)

Aug. 2020 - Present Director
Advance Asia Energy Company Limited
(Former: UWC Garnet Biomass Company Limited,
TRC Clean Energy Company Limited)

Mar. 2020 - Present Director
Khun Tan Progress Community Power Plant
Company Limited

Mar. 2020 - Present Director
Khun Tan Phatthana Community Power Plant
Company Limited

Mar. 2020 - Present Director
Khun Tan Community Power Plant
Company Limited

Mar. 2020 - Present Director
Rang Bua Progress Community Power Plant
Company Limited

May 2020 - Present Director
Chom Bueng Rung Ruang Community Power Plant
Company Limited

Mar. 2020 - Present Director
Khun Tan Rung Ruang Community Power Plant
Company Limited

Apr. 2020 - Present Director
Kamphaeng Phet Kao Klai
Community Power Plant Company Limited

May 2020 - Present Director
Buriram Ruamjai Community Power Plant
Company Limited

May 2020 - Present Director
Kamphaeng Phet Phatthana Community
Power Plant Company Limited

Mar. 2020 - Present Director
Khun Tan Ruam Jai Community Power Plant
Company Limited

Mar. 2020 - Present Director
Tarrungrueng Community Power Plant
Company Limited

Apr. 2020 - Present Director
Khanu Woralaksaburi Community Power Plant
Company Limited

Apr. 2020 - Present Director
Kamphaeng Phet Community Power Plant
Company Limited

Apr. 2020 - Present Director
Khlong Khlung Pattana Community Power Plant
Company Limited

Mar. 2020 - Present Director
Ta Phatthana Community Power Plant
Company Limited

Mar. 2020 - Present Director
Nong Hong Community Power Plant
Company Limited

Apr. 2020 - Present Director
Ta Progressive Community Power Plant
Company Limited

Apr. 2020 - Present Director
Ta Community Power Plant Company

Apr. 2020 - Present Director
National Clean Energy Company Limited

Apr. 2020 - Present Director
Absolute Power Plant Company Limited



Mr. Tanachai Bunditvorapoom

Director, Chief Executive Office and Executive Director

Position Appointment Date

14 July 2018	Director
2 May 2017	Chief Executive Officer
16 September 2017	Executive Director

Age 50 years

Education Trainings and Seminar

- MBA (Finance), The National Institute of Development Administration
- Bachelor of Law (Business Law), Chulalongkorn University
- Bachelor of Engineering (Civil Engineering), Chulalongkorn University
- Director Leadership Certification Program (DLCP) Class 3/2021, Thai Institute of Directors Association
- Director Certification Program (DCP 252/2018), Thai Institute of Directors
- Board Nomination & Compensation Program (BNCP 6/2019), Thai Institute of Directors
- Ethical Leadership Program (ELP) Training, Class 26/2022, Thai Institute of Directors Association
- Training on Subsidiary Governance Program (SGP), Class 1/2022, Thai Institute of Directors Association
- Risk Management Program for Corporate Leaders (RCL), Class 29/2022, Thai Institute of Directors Association
- Advanced Master of Management Program, AMM (Class 6), Graduate School of Public Administration, National Institute of Development Administration
- TLCA Executive Development Program (EDP 9), Thai Listed Companies Association

Shareholding Ratio in the Company (%) (on 31 Dec 2022)

- None -

Family Relationship with Director and Executive

- None -

Work Experience

July 2018 - Present	Director Absolute Clean Energy Public Company Limited
Sep. 2017 - Present	Executive Director Absolute Clean Energy Public Company Limited
May 2017 - Present	Chief Executive Officer Absolute Clean Energy Public Company Limited
Aug. 2019 - Present	Director Asian Clean Energy Company Limited
Aug. 2019 - Present	Director Advance Agro Asia Company Limited
Aug. 2019 - Present	Director Bio Power Plant Company Limited
Aug. 2019 - Present	Director ACE Solar Company Limited
Aug. 2020 - Present	Director Absolute Clean Engineering & Service Limited (Former: Satuek Biomass Company Limited)
Aug. 2020 - Present	Director Advance Bio Energy Company Limited
Aug. 2020 - Present	Director Advance Asia Energy Company Limited
Feb. 2018 - Present	Director Synergetic Auto Performance Public Company Limited
Apr. 2018 - Present	Nomination and Remuneration Committee Synergetic Auto Performance Public Company Limited
Jun. 2012 - Apr. 2017	FSVP - Head of Investment Banking TISCO Securities Company Limited
Mar. 2011 - May 2012	Senior Vice President - Head of Investment Banking TISCO Bank Public Company Limited
Oct. 2003 - Feb. 2011	Assistant Managing Director Finansia Securities Limited

Board

Organization Structure for the year ended December 31, 2022, consists of the Board of Directors and 4 Sub-Committees consist of the Audit Committee, the Nomination and Remuneration Committee, Sustainability and Risk Management Committee and the Executive Board of Directors, with the details as follows:

Board of Directors

For the year ended December 31, 2022, the Board of Directors consisted of 10 Directors as follows:

Name	Position	Number of meeting attended / Number of meeting (after appointed as Directors) 2022
1. Mr. Monton Sudprasert	Chairman/Independent Director	8/8
2. Mr. Charoon Intachan ¹	Director/Independent Director	5/8
3. Ms. Chonticha Chitraporn	Director/Independent Director/ Chairman of Audit Committee	8/8
4. Mrs. Patchanee Sutheevitanunt	Director/Independent Director/ Member of Audit Committee/ Chairman of Nomination and Remuneration Committee	8/8
5. Mr. Nuekrak Baingern	Director/Independent Director/ Audit Committee/ Nomination and Remuneration Committee	8/8
6. Mrs. Jiratha Songmetta	Director/ Chairman of Executive Committee/ Member of Nomination and Remuneration Committee	8/8
7. Mr. Tanavijit Ankapipatchai	Director/ Member of Executive Committee	8/8
8. Mr. Teerawut Songmetta	Director/ Member of Executive Committee	8/8
9. Mr. Pornmett Songmetta	Director/ Member of Executive Committee	7/8
10. Mr. Tanachai Bunditvorapoom	Director/ Member of Executive Committee/ Chief Executive Officer	8/8

Note: 1. Mr. Charoon Intachan, Director of the Board of Directors / Independent Director, is convalescing from medical conditions that have prevented him from attending the Board of Directors' Meeting since September 2021, however he was able to attend the 2022 Annual General Meeting of Shareholders of the Company on April 28, 2022 and was able to attend the Board of Directors' Meeting since May 2022 onwards

Director with Authorization

Director with Authorization are Mrs. Jiratha Songmetta, Mr. Tanavijit Ankapipatchai, Mr. Teerawut Songmetta, and Mr. Pornmett Songmetta. Two out of four Directors jointly sign and affix the Company's seal.

Components and appointment of the Board of Directors

Shareholders are the person who approve the appointment of Company Director.

The Board of Directors consist of Chairman, Vice Chairman (if any) and Directors. The number of the members shall be appropriate for the size of the business of the Company and the efficient operation. In total, there shall not be fewer than 5 persons, and not fewer than half of the Company Director must have domicile in Thailand. There shall be the Directors that are genuinely Independent from the Managements and free from the business relation or any other relation that may influence the use of discretion independently, at least one-third of the total number of Director and but not be fewer than 3 persons. The Chairman of the Board of Directors and the Chief Executive Officer must not be the same person.

The appointment of the Company Director must be in accordance with the Article of Association of the Company and the related laws. In this regard, it must be transparent and distinct. The consideration must include the educational background and work experience of the person. The details must be adequate for the advantage of decision making of the Board of Directors and shareholders.

Qualification of the Board of Directors

- 1) Company Director must be the person with knowledge and ability, honesty and morale in business operation and have enough time to use the knowledge and ability and perform duties for the Company.
- 2) Company Director must have qualification and must not be prohibited by law concerning public Company limited and the relevant laws. Apart from that Company Director must not have the characteristic that is suitable to gain reliability to administer the business with public shareholders as specified by the Capital Market Supervisory Board.
- 3) Company Director can hold the position of the Director in other Company but such Director position holding must not be the obstacles to perform the duty as the Director of the Company and must be in accordance with the guideline of the Securities and Exchange Commission ("SEC") and the Stock Exchange of Thailand ("SET"). However, if the Director holds a position in another company which is a company whose shares are listed on the Stock Exchange of Thailand. ("Listed Companies") The number of other listed companies where each director of the company may hold a position must not exceed 4 places.
- 4) Company Director must not run the business with the same condition or compete with the business of the Company or become the partner in an ordinary partnership or partner with unlimited liability in a limited partnership or be the Director of the private Company or other Company that run the business with the same condition and compete with the business of the Company, regardless of for one's benefit or for the benefit of other people, unless informing the Shareholders' meeting prior to the appointment.
- 5) Independent Director must have the independent qualification as specified by the Capital Market Supervisory Board and must be in accordance with the qualification of Audit Committee according to the notification of the Capital Market Supervisory Board and/or the Securities and Exchange Commission, concerning the qualification and scope of operation of the Audit Committee and must be able to take care of the benefits of all shareholders equally and must not cause conflict of

interest. Moreover, the Independent Director must be able to attend the Board of Directors' meeting and provide opinion independently.

Scope, authority and responsibility

A. Scope, authority and responsibility of the Board of Directors

In addition to the main duty as a representative of the shareholders, the authority and responsibility of the Board of Directors are also as stipulated by laws, articles of incorporation, and resolutions passed in the shareholders' meeting, which include the following actions:

- 1) Perform duties with responsibility, carefulness and honesty by considering on the maximum benefits of the Company and must comply with the laws, objectives and regulations of the Company, as well as the Shareholders' meeting resolution. In this regard, the agenda that needs to be approved by the Shareholders' meeting before operation, such as the operation that the is stipulated by law that the Shareholders' meeting resolution is required, the related transaction and the acquisition and selling of key asset, etc.
- 2) Determine and approve the vision, mission, target, guideline, policy and approving authority for the operation, business plan and budget of the Company and the Subsidiaries, as well as Monitoring and Supervision on the administration, Management and follow up the performance of the Managements of both the Company and the Subsidiaries to be in compliance with the policy, work plan and budget set out with efficiency and effectiveness according to the business policy.
- 3) Consider to approve the appointment of the person who is qualified and does not have the prohibited characteristic according to the Public Company Limited Act B.E. 2535 and the laws concerning stock and stock exchange, as well as the relevant rules and/or regulations to hold the position of the Director in case the position of the Director is vacant due to any reason other than periodically resign, unless the remaining period for position holding of such Director is fewer than 2 months.
- 4) Consider to appoint the Independent Director by considering on the qualification and prohibited characteristic of the Independent Director according to the laws concerning stock and stock exchange, notification of Capital Market Supervisory Board, as well as the notification on the relevant rules and/or regulations of SET or propose to the Shareholders' meeting for consideration on the appointment of Independent Director of the Company further.
- 5) Consider to appoint the Audit Committee with the qualification as specified by laws concerning Securities and Stock exchange, notification of Capital Market Supervisory Board, as well as the notification on the relevant rules and/or regulations of SET
- 6) Consider appointing the Executive Board by selecting from the Director and/or Management of the Company or the Subsidiaries or the external expert who has knowledge and ability that is a beneficial to the Company and the Subsidiaries, as well as setting the scope, authority, obligations and responsibility of the Executive Board.
- 7) Consider to appoint the other Sub-Committee, as well as setting the scope, authority, obligations and responsibility to assist in the operation of the Board of Directors.

- 8) Consider appointing the CEO or the top Management of the Company and Company Secretary that has the qualification as specified by law and consider on setting the remuneration of the CEO or the Top Management.
- 9) Consider to determine and change the name of the Directors who are authorized to sign on behalf of the Company.
- 10) Appoint other person to operate the Company under the supervision of the Board of Directors or authorized such person to have the authority and/or within the time specified by the Board of Directors, which the Board of Directors may cancel, revoke, change or amend such authority later. In this regard, the authorization must be done as the resolution of the Board of Directors in the form of minutes of meeting and the scope of authority given to the authorized person must be clearly specified.
- 11) Consider to approve the acquisition and sale of the asset and/or the related transaction, except when such transaction must be approved by the Shareholders' meeting. In this regard, such approval will be in accordance with the notification of the Capital Market Supervisory Board and/or notification, rules and/or regulations of SET.
- 12) Consider to approve the interim dividend payment to the shareholders, when the Company has enough profit to do so and report the dividend payment to the Shareholders' meeting for acknowledgement in the next Shareholders' meeting.
- 13) Prepare the annual report of the Board of Directors and consolidated financial statements as well as the financial statement only for the business of the Company at the end of the accounting period of the Company which has been Audited by the Auditor in order to show the financial status and the performance in the preceding year and propose to the Shareholders' meeting for consideration and approval.
- 14) Consider to select and comment on the list of Auditors of the Company and the Subsidiaries and/or the Joint venture and consider to determine the appropriate remuneration as proposed by the Audit Committee before proposing to the Shareholders' meeting in the Annual General Meeting for consideration and approval.
- 15) Take action to make the Company and the Subsidiaries and/or the Joint Venture utilize the accounting system that is appropriate and efficient and provide the efficient internal control system and internal Audit system.
- 16) Consider to set the Risk Management policy for the whole organization and supervise in order to provide the Risk Management system or process. There shall be a supporting measure and controlling method to reduce the impact to the business of the Company and the Subsidiaries appropriately.
- 17) Set the policy about Corporate Governance and Anti-Corruption policy in all aspects of the Company and the Subsidiaries and/or the Joint venture according to the good governance in writing, at least according to the guideline set by SET and/or Capital Market Supervisory Board and apply such policy efficiently to ensure that the Company and the Subsidiaries are responsible for all relevant persons with fairness.

- 18) Company Director is responsible for reporting their shareholding and the interest of relevant persons to the Company for acknowledgement. Apart from that, there must be a report on the shareholding of the Management and relevant persons as well as the Directors and relevant persons and Management and relevant persons of the Subsidiaries as well.
- 19) Authorize one or more of the Company Directors or any other person to take any action on behalf of the Board of Directors, which shall be under the control of the Board of Directors or may authorize such person to have the authority as the Board of Directors seen appropriate and within the timeline that the Board of Directors seen appropriate. The Board of Directors may cancel, revoke, change or amend such authority later. In this regard, such authorization must not have the characteristic of the authorization that such person can consider and approve the transaction that the person or people who may have conflict or interest or may have conflict of interest in any aspect which may occur to the Company or the Subsidiaries or the Joint venture as defined in the notification of Capital Market Supervisory Board and/or the Stock Exchange of Thailand and/or any other notification of the relevant organization, unless it is the approval of the transaction that is in accordance with the policy and criteria that the Board of Directors has considered and approved.
- 20) Supervise to ensure that there is a disclosure of the role and obligation of the Board of Directors and Sub-Committee, number of the meeting and number of time that each Director attend the meeting in the preceding years and report the performance of the Board of Directors and all Sub-Committees.
- 21) Support the Directors and Managements of the Company and the Subsidiaries to attend the seminars of the Thai Institute of Directors in the course related roles and responsibility of Director and Management.
- 22) Follow up and supervise the Management and operations of the Company the Subsidiaries and/or the Joint venture (*mutatis mutandis*) to be in compliance with the policy set out by the Company, the laws related to business operation, as well as the laws concerning stock and stock exchange, notification of Capital Market Supervisory Board, regulations of the Stock Exchange of Thailand, *mutatis mutandis*, to the extent that it does not contradict or conflict with other laws.
- 23) Consider to appoint the representative to be the Director and Management in the Subsidiaries and/or the Joint venture at least according to the ratio of shareholding in the Subsidiaries and/or the Joint venture of the main business, unless there is any legal limitation or conditions of the co-investment with the government sector or any other cases as stated by the laws concerning Securities and Stock Exchange, notification of Capital Market Supervisory Board, regulations of the Stock Exchange of Thailand. In this connection, the Director and Management of the Subsidiaries mentioned above that are appointed or proposed, must be the person with qualification, roles, obligations and responsibility as specified by relevant law, and shall not have the characteristic that is not reliable according to the notification of the Capital Market Supervisory Board, concerning the characteristic that is not reliable of the Director and Management of the Company.
- 24) In the case that the Subsidiaries agree to do the transaction that is related to the person who is related to the Subsidiaries, or the transaction of the acquisition or sale of the assets of the Subsidiaries according to the criteria set in the notification of the Capital Market Supervisory Board

and/or the notification of the Stock Exchange of Thailand (as the case may be). The Company and the Subsidiaries must follow the criteria and the method as set out in the notifications, before conducting the transaction, mutatis mutandis. The Subsidiaries must follow the criteria and the method as set out in the notifications in the same manner as the Company is the one who conducts such transaction.

In this regard, such transaction needs to be approved by the Board of Directors' meeting and/or Shareholders' meeting of the Company according to the notification of the Capital Market Supervisory Board and/or the notification of the Securities and Exchange Commission. The Company and the Subsidiaries shall consider the size of the transaction compared to the consolidated financial statements of the Company.

- 25) Monitor the Subsidiaries and/or the Joint venture to disclose the important information, such as the financial status and work performance, related transaction and the transaction that may have the conflict of interest, the list of acquisition or sale of the significant asset and any other items that are important which is not the normal transaction of the Subsidiaries or the Joint venture, etc. In this regard, the revelation of such information must be adequate, complete and correct within the time specified by the Company and correspond with the criteria of the relevant organization.
- 26) The Board of Directors must provide to the Subsidiaries and/or the Joint venture that runs the main business with internal control system that is suitable and concise enough for preventing the fraud that may occur to the Subsidiaries and/or the Joint venture. Apart from that the Subsidiaries and/or the Joint venture should have a distinct work system to show that the Subsidiaries and/or the Joint venture have an adequate system in information disclosure for the significant transaction according to the stipulated criteria consistently and reliably. Plus, there must be a channel for the Director and Management of the Company to be able to efficiently get the information of the Subsidiaries and/or the Joint venture for supervising the work performance and financial status, transaction between the Subsidiaries and/or the Joint venture and the Director and/or Management of the Subsidiaries and/or the Joint venture and the significant transaction of the Subsidiaries and/or the Joint venture. Apart from that, the Board of Directors must provide the Subsidiaries and/or the Joint venture the examination mechanism for such work system in the Subsidiaries and/or the Joint venture. The internal Auditor team and Independent Director of the Company must be able to access the information directly and there must be a report of such work system examination for the Audit Committee and the Board of Directors to ensure that the Subsidiaries and/or the Joint venture has complied with the work system efficiently and regularly.
- 27) The Board of Directors has the authority to appoint a Chairman of the Advisory Board, an Advisor, or an Advisory Board of the Board of Directors as appropriate and to determine the remuneration, allowances, welfare, amenities and other expenses of the Chairman of the Advisory Board, the Advisor, or the Advisory Board of the Board of Directors as appropriate.

In the event that the Board of Directors has appointed any person to be the Chairman of the Advisory Board, the Advisor, or the Advisory Board of the Board of Directors, the information of the Chairman of the Advisory Board, the Advisor, or the Advisory Board of the Board of Directors

should be disclosed in the annual report to show that they are independent without any conflict of interest.

B. Scope of Duties and Responsibilities of the Chairman of the Board of Directors

- 1) To be the chairman of the board of directors meeting Effectively control Board meetings. And is the deciding vote at the Board of Directors meeting in case of equal votes.
- 2) Supervise, monitor and ensure that to perform duties of the Board of Directors efficiently and achieve the objectives and main goals of the organization.
- 3) Ensure all company directors take part in fostering an ethical corporate culture and good corporate governance.
- 4) Set the agenda for the Board of Directors' meetings in consultation with the Chief Executive Officer. And there are measures to take care that important matters are included in the agenda of the meeting
- 5) Allocate sufficient time for management to present the matter and sufficient for the directors to discuss the main issues thoroughly. And encouraging the Company's directors to exercise their discretion to give opinions without restrictions.
- 6) Communicate important information To the Board of Directors for acknowledgment
- 7) Maintain good relationships between executive directors and non-executive directors and between the Board of Directors and the Management

The Meeting

- 1) The meeting is scheduled at least four times per year, with a scheduled meeting date in advance for the whole year, and special meetings may be held as needed. In addition, there shall be a meeting between the non-executive directors without the management attending at least 1 time per year.
- 2) For the year 2022, the Board of Directors meeting No. 2/2022 held on March 22, 2021 resolved to determine the date of the Board of Directors' meeting in advance throughout the year 2022.
- 3) The Chairman of the Board of Directors and the Chairman of the Executive Committee will oversee and approve the agenda of the meeting.
- 4) The company secretary is responsible for sending the meeting invitation letter together with the agenda and meeting documents to the directors at least 7 days in advance so that the directors have time to study in advance of the meeting.
- 5) The Chairman of the Board of Directors acts as the chairman of the meeting and is responsible for allocating sufficient time for each agenda item for directors to independently discuss and express their opinions on important issues, taking into account the interests of shareholders and stakeholders. fairness.
- 6) In a committee meeting, a person who has a significant stake in the matter to be considered must leave the meeting during the consideration of that matter.
- 7) Voting shall be made by a majority of votes, and if there are members of the committee opposing such resolution, the objection shall be recorded in the meeting minutes.

- 8) In considering any matter, the director has the right to request to review or examine relevant documents or request the relevant management to attend the meeting to clarify additional information.
- 9) The company secretary is responsible for taking notes and preparing the minutes of the meeting within 14 days, keeping minutes of meetings, supporting documents, and monitoring the Board of Directors to perform their duties in accordance with the laws, regulations and resolutions of the shareholders' meeting, as well as coordinating with those Related

Quorum

At a meeting of the Board of Directors, the presence of not less than two-thirds of the total number of Company Directors is required to constitute a quorum at the time of the Board of Directors' resolution. At least two-thirds of the total number of directors.

In the event that it is an agenda to consider approving the matters that the Company's directors who are interested in the said agenda have to leave the meeting during the consideration of such matters, for example, the agenda to approve the entering into a connected transaction, etc. The said director must have at least not less than the meeting of the Company. The number of company directors as specified in the second paragraph minus the number of company directors who are interested in the said agenda, who must leave the meeting during the consideration of the matter.

In the event that the Chairman of the Board of Directors is not present at the meeting or is unable to perform his duties, in the event that the Vice Chairman of the Board is present, the Vice Chairman of the Board of Directors shall preside over the meeting. At such meeting or being unable to perform duties, the directors present at the meeting shall elect one of the Company's directors to chair the meeting, the decision of the meeting shall be made by a majority vote. One director of the company has one vote, except that a director who has interests in any matter has no right to vote on that matter, if the votes are equal, the chairman of the meeting is the judge.

7.3 Sub-Committee Information

Audit Committee

For the year ended December 31, 2022, the Audit Committee consisted of 3 Directors as follows:

Name	Position	Number of meeting attended / Number of meeting (after appointed as Directors) 2022
1. Ms. Chonticha Chitraporn	Chairman of Audit Committee	7/7
2. Mrs. Patchanee Sutheevitanunt	Member of Audit Committee	7/7
3. Mr. Nuekrak Baingern	Member of Audit Committee	7/7

Note: - Ms. Chonticha Chitraporn has sufficient knowledge and experience to review the creditability of financial statements.
- Mr. Somchai Jiapiyasakul acts as the Secretary of the Audit Committee.

Composition and Appointment of the Audit Committee

- 1) The Board of Directors appoints the Audit Committee by selecting and nominating the Company's Directors, at least 3 of whom are Independent Directors.
- 2) The Audit Committee or the Board of Directors selects 1 Audit Committee member to be the Chairman of the Audit Committee.
- 3) At least 1 Audit Committee member must be knowledgeable about and experienced in accounting and/or finance to be able to audit the reliability of the financial statements. They must have prior knowledge of the causes of changes in financial reporting and must be able to put questions directly to the issues and interpret and evaluate the results of the answers received.
- 4) The Audit Committee can appoint the Audit Committee Secretary who is responsible for assisting in operations and coordinating with the Audit Committee regarding meeting appointments, meeting agenda preparation, meeting documents submission, meeting minute formulation, and other tasks as assigned. The Audit Committee has the authority to determine the remuneration (meeting allowances) for the Audit Committee Secretary as considered appropriate.

Qualifications of the Audit Committee

- 1) Having been appointed by the Board of Directors or in the shareholders' meeting of the Company (as the case may be) and must not be Directors assigned by the Board of Directors to make decisions on operations of the Company, the Parent Company (that has control over the Company's business), Subsidiaries, Associated Companies, same-level subsidiary, major shareholders, or controlling person. They also must not currently be the director of the parent company, subsidiary, or same-level subsidiary of listed companies only.

- 2) Holding no more than 1 % of total voting shares of the Company, the Parent Company, Subsidiaries, Associated Companies, major shareholders, or controlling person, including the shareholding of persons related to the Independent Directors
- 3) Not currently be or never been the Company's executive Directors, workers, employees, salaried consultants, or controlling parties of the Company, the Parent Company, Subsidiaries, Associated Companies, same-level subsidiary, major shareholders, or controlling person, unless it has been at least 2 years after they have held the position prior to the appointment date.
- 4) Not related by blood with or legally registered as fathers, mothers, spouses, siblings, children, and spouses of children of other Directors, Executives, major shareholders, controlling parties, or persons who will be nominated as Directors, Executives, or controlling parties of the Company or Subsidiaries.
- 5) Not currently having or never had any relations with the Company, the Parent Company, Subsidiaries, Associated Companies, major shareholders, or controlling person in the way that such relation may impede them from having independent views. Also, they should not currently be or never be significant shareholders or controlling persons for persons having business relations with the Company, the Parent Company, Subsidiaries, Associated Companies, major shareholders, or controlling person, unless it has been at least 2 years after they have held the position prior to the appointment date.

Business relationship under paragraph one includes making trade transactions that are normally carried out for business operations, leasing or renting real estate, transactions relating to assets or services, giving or receiving financial assistance by accepting, lending, guaranteeing, or placing assets as collateral for liabilities, and other similar circumstances that cause the Company or the counterparty debt obligations to be paid to the other party on which the amount is from 3 percent of the Company's net tangible assets or from 20 million baht or more, whichever is lower. In this regard, the calculation of such debt obligations shall be in accordance with the method for calculating the value of connected transactions under the Notification of the Capital Market Supervisory Board Re: Rules on Connected Transactions as appropriate. However, debt obligations incurred during one year prior to the date the business relationship with the same person was formed shall also be included in the calculation.

- 6) Not currently being or never been the auditor of the Company, the Parent Company, Subsidiaries, Associated Companies, major shareholders, or controlling person , Also, they should not currently be or never be significant shareholders, controlling persons, or partners of auditing firms which the auditors of the Company, the Parent Company, Subsidiaries, Associated Companies, major shareholders, or controlling person are under, unless has been at least 2 years after they have held the position prior to the appointment date.
- 7) Not currently be providing or never provided professional services, legal consulting, nor financial consulting services to the company with a fee more than THB 2 million per year from the Company, the Parent Company, Subsidiaries, Associated Companies, major shareholders, or controlling person. Also, the person should not currently be or never be a significant shareholder, controlling

person, or partners of current service providers, unless it has been at least 2 years after they have held the position prior to the appointment date.

- 8) Not currently a director appointed to represent the company's directors, major shareholders, or the shareholder related to major shareholder.
- 9) Not currently be operating under similar business nature and significant competition to the company or subsidiary; or not a significant partner of the partnership, executive director, salaried worker, employee, or consultant; or holding more than 1 percent of voting shares of any other companies operating under similar business nature and significant competition to the company and subsidiary.
- 10) Not under any conditions that may impede the person from having independent views towards the company's operations.
- 11) Having duties in the same manner as stipulated in the Notification of the Stock Exchange of Thailand Re: Qualifications and Scope of Work of the Audit Committee.
- 12) Having sufficient knowledge and experience to perform the duty of an audit committee. There must be at least one audit committee member, who is sufficiently knowledgeable and experienced to review the reliability of financial statements.

For the benefit of paragraph 6) and 7) the word "partner" means a person assigned by an auditing firms or professional service providers to sign the audit report or professional service reports (as the case may be) on behalf of that juristic person.

In the event that the person the Company appointed as an Audit Committee Member has or has had a business relationship or provides or has provided professional service in excess of the value specified under paragraph 5) or 7), the Company shall be relieved of the prohibition on having or having had a business relationship or received or having received professional services in excess of such value only when the Company has provided an opinion of the Board of Directors showing that it has considered in accordance with Section 89/7 of the Securities and Exchange Act B.E. 2535 (including any amendments thereof) that the appointment of such persons does not affect the performance of duties and independent opinions, and has disclosed the following information in the notice of the shareholders' meeting in the agenda to consider the appointment of the Audit Committee:

- 12.1) Nature of business relationship or professional service that causes such a person's qualifications to not meet the specified criteria;
- 12.2) reasons and necessity to retain or appoint such a person as an audit committee; and
- 12.2) Opinion of the Board of Directors on the proposal to appoint such a person as an independent director.

Scope, authority and responsibility of Audit Committee

A. Audit Committee has the following authorities:

- 1) Having the authority to examine and investigate as necessary in the matters with the indication that there may be significant impact towards the reputation, financial status and work performance of the Group, as well as the benefit that the shareholders should receive, such as:
 - The transaction that may cause conflict of interest

- Suspect or assume that there may be a fraud or abnormality or defect in the internal control system of the Company or the Subsidiaries
 - Suspect that there may be law violation concerning stock and stock exchange, regulations of the Stock Exchange or laws related to the business of the Group.
- 2) Having the authority to seek independent opinion from any other professional consultant when it is required by using the Company expense to make the operation under their responsibility success well. In this connection, the Audit Committee is responsible for report the result of the Audit and Investigation to the Board of Directors for correction within the time the Audit Committee seen appropriate. However, if the Audit Committee sees that such corrective action is ignored without an appropriate reason, one of the Audit Committee members may report it to the Securities and Exchange Commission and/or the Stock Exchange of Thailand. In this regard, the authority of Audit Committee will not include the authority that make the Audit Committee or the person who is authorized by the Audit Committee be able to vote or give opinion to the issue that the Audit Committee or the representative of the Audit Committee or the person who may cause conflict according to the definition by the notification of Capital Market Supervisory Board to be the Shareholder or have the conflict of interest with the Company or the Subsidiaries.
- 3) The Audit Committee has the authority to appoint a Chairman of the Advisory Board, an Advisor, or an Advisory Board of the Audit Committee as appropriate and to determine the remuneration, allowances, welfare, amenities and other expenses of the Chairman of the Advisory Board, the Advisor, or the Advisory Board of the Audit Committee as appropriate. The total amount of remuneration, allowances, welfare, amenities, and other expenses of the Chairman of the Advisory Board, the Advisor, or the Advisory Board of the Audit Committee must not exceed 5 million baht/year. Any exceeded amount must be presented to the Board of Directors for approval

After having appointed a Chairman of the Advisory Board, an Advisor, or an Advisory Board of the Audit Committee, or determined the remuneration, allowances, welfare, amenities, and other expenses of the Chairman of the Advisory Board, the Advisor, or the Advisory Board of the Audit Committee, the Audit Committee must report to the Board of Directors for acknowledgment. The information and details of the Chairman of the Advisory Board, the Advisor, or the Advisory Board of the Audit Committee should be disclosed in the annual report to show that they are independent without any conflict of interest.

B. Audit Committee has the following obligations and responsibility:

- 1) Ensure the Company to have the correct financial report and reveal adequate information with the coordination with Auditor and Management who are responsible for preparing the financial report on quarterly and annual basis. Audit Committee may suggest the Auditor to verify or examine any transaction that is necessary and significant during the Audit of the Company.
- 2) Ensure the Company and the Subsidiaries to have internal control system and internal Audit system that are appropriate and effective. The verification shall be done together with the Auditor and the internal Auditor and consider the independence of the internal Audit division, as well as the approval to consider to appoint the relocation, employment termination and determine the remuneration of

the Head of internal Audit division or any other division that is responsible for internal Audit, as well as approving the internal Audit plan as well as assigning the internal Audit officer to support the Audit Committee operation.

- 3) Ensure to make the Company comply with the laws concerning stock and stock exchange, regulations of SET and laws related to business of the Company and the relevant standard.
- 4) Consider selecting, proposing and/or terminate the appointment of the Auditor of the Company and the Subsidiaries and/or the Joint venture and propose the remuneration of such Auditor by considering on the reliability, adequacy of the resourced, amount of Auditing work of such Audit Company, as well as the experience of the personnel assigned to conduct the Audit the Company. Apart from that, Audit Committee must participate in the meeting with the Auditor without the administration division joining the meeting at least one a year.
- 5) Consider providing opinion about conducting the relevant transaction or the transaction that may have conflict of interest of the Company and/or the Subsidiaries according to the law provision and relevant criteria and regulations of SET. In this regard, this is to ensure that such transaction is reasonable and have highest benefit to the Company.
- 6) Prepare the report of Audit Committee by revealing in the annual report of the Company. Such report shall be signed by the Chairman of the Audit Committee and the report should be consist of at least the following information:
 - 6.1) Opinion about the correctness, completeness, reliability of financial report of the Company and the Subsidiaries
 - 6.2) Opinion about the adequacy of the internal control system of the Company and the Subsidiaries.
 - 6.3) Opinion about the compliance to the laws concerning stock and stock exchange, regulations of SET or laws related to business of the Company and the Subsidiaries.
 - 6.4) Opinion about the appropriateness of the Auditor
 - 6.5) Opinion about the statement that may have conflict of interest of the Company and the Subsidiaries.
 - 6.6) the Number of the Audit Committee meeting and the attendance of each Audit Committee member.
 - 6.7) Opinion or notice in overall that the Audit Committee has obtained from the operation according to the charter.
 - 6.8) Any other report that the shareholders and the investor in general should know under the scope of authority and responsibility from the Board of Directors.
- 7) Verify and give opinion about the policies related to the authority of the Audit Committee, such as the accounting policy, Corporate Governance policy and responsibility towards the society and anti-corruption policy, etc.
- 8) Review the process of Corporate Governance and responsibility towards society, including the anti-corruption process.
- 9) Perform any other tasks as assigned by the Board of Directors with approval from the Audit Committee.

Audit Committee Reporting

Audit Committee has obligation and responsibility in the activity report of the Audit Committee or other obligations as assigned by the Board of Directors. The report of Audit Committee will pay attention to the Board of Directors, Shareholders and Investors in general because such report will show Independent and straightforward opinion of the Audit Committee and the Board of Directors can be confident that the Administrative Division has operate carefully and pays attention to the benefits of all shareholders equally.

1. Report to the Board of Directors

1.1 Report the activities done regularly, so that the Board of Directors is acknowledge of the activity of the Audit Committee

- Minutes of Audit Committee's meeting which specify the opinion of the Audit Committee in various matters and the Chairman of the Audit Committee shall be the one who record the minutes of Audit Committee's meeting for the Board of Directors' meeting in the next meeting for acknowledgement
- Summary of the activities done during the year
- Report on the opinion to the Financial Report, Internal Audit and Internal Audit process
- Any other report that the Board of Directors should be acknowledged of

1.2 Report the finding immediately so that the Board of Directors can seek for corrective action in timely manner

- Report conflict of interest
- Suspect or assumption that there may be fraud or abnormality or the important defect in the internal control system
- Suspect of violation against laws or regulations of SET
- Any other report that the Board of Directors should be acknowledged of

2. Report to the government agency

If the Audit Committee has reported to the Board of Directors about the significant impact to the financial status and work performance and has discussed with the Board of Directors and Managements that there must be a correction, once the due date is reached, if the Audit Committee found that the correction is ignored without an appropriate reason, one of the Audit Committee members may report it to the Securities and Exchange Commission and/or the Stock Exchange of Thailand.

3. Report to the shareholders and investor in general

The activities done during the year according to the obligation and responsibility that is assigned by the Board of Directors which has been signed by the Chairman of the Audit Committee and disclosed in the Annual Report of the Company.

Nomination and Remuneration Committee

For the year ended December 31, 2022, the Nomination and Remuneration Committee consisted of 3 Directors as follows:

Name	Position	Number of meeting attended / Number of meeting (after appointed as Directors) 2022
1. Mrs. Patchanee Sutheevitanunt	Chairman of Nomination and Remuneration Committee	3/3
2. Miss Jiratha Songmetta	Member of Nomination and Remuneration Committee	3/3
3. Mr. Nuekrak Baingern	Member of Nomination and Remuneration Committee	3/3

Note: - Mr. Chainart Buathong acts as the Secretary for the Nomination and Remuneration Committee

Composition and Appointment of the Nomination and Remuneration Committee

- 1) The Nomination and Remuneration Committee is appointed by the Board of Directors with the number of the members as the Board of Directors considers appropriate, which will consist of the Company Directors and/or qualified people. The Nomination and Remuneration Committee should have no fewer than 3 and no more than 5 members.
- 2) Nomination and Remuneration Committee members are not required to be the Directors of the Company.
- 3) The Chairman of the Nomination and Remuneration Committee is appointed by the Board of Directors.
- 4) The Chairman of the Nomination and Remuneration Committee and most members of the Nomination and Remuneration Committee should be Independent Directors, not be the Chairman of the Board of Directors or Chairman of other sub-committees, and have enough time to perform the assigned duties.
- 5) The Nomination and Remuneration Committee can appoint 1 employee of the Company as the Nomination and Remuneration Committee Secretary to assist in its operation regarding meeting appointments, meeting agenda preparation, meeting documents submission, and meeting minute formulation. The Nomination and Remuneration Committee has the authority to determine the remuneration (meeting allowances) for the Nomination and Remuneration Committee Secretary as considered appropriate.
- 4) The Nomination and Remuneration Committee has the authority to appoint a Chairman of the Advisory Board, an Advisor, or an Advisory Board of the Nomination and Remuneration Committee as appropriate and to determine the remuneration, allowances, welfare, amenities and other expenses of the Chairman of the Advisory Board, the Advisor, or the Advisory Board of the Nomination and Remuneration Committee as appropriate. The total amount of remuneration, allowances, welfare, amenities, and other expenses of the Chairman of the Advisory Board, the

Advisor, or the Advisory Board of the Nomination and Remuneration Committee must not exceed 5 million baht/year. Any exceeded amount must be presented to the Board of Directors for approval

After having appointed a Chairman of the Advisory Board, an Advisor, or an Advisory Board of the Nomination and Remuneration Committee, or determined the remuneration, allowances, welfare, amenities, and other expenses of the Chairman of the Advisory Board, the Advisor, or the Advisory Board of the Nomination and Remuneration Committee, the Nomination and Remuneration Committee must report to the Board of Directors for acknowledgment. The information and details of the Chairman of the Advisory Board, the Advisor, or the Advisory Board of the Nomination and Remuneration Committee should be disclosed in the annual report to show that they are independent without any conflict of interest.

Qualifications of the Nomination and Remuneration Committee

- 1) The Nomination and Remuneration Committee members must have knowledge, capability and experience that benefit the performance of the Nomination and Remuneration Committee. They must carry out business with honesty, integrity, and business ethics and have enough time to deliver their knowledge, capability and performance to the Company.
- 2) The Nomination and Remuneration Committee members must have qualifications without any prohibited characteristics under the Civil and Commercial Code, Securities and Exchange Act, and any other relevant laws.
- 3) The Nomination and Remuneration Committee members must have qualifications and not have any prohibited characteristics under the law governing public limited companies. Securities and Exchange Law and any other relevant laws
- 4) The Nomination and Remuneration Committee member cannot engage in business as a partner or a director in another juristic person with the same nature and/or competing with the business of the Company and/or Subsidiaries and/or Associated Companies, whether for their own benefit or for the benefit of others, unless declared in the Board of Directors' meeting or the Company's shareholders' meeting prior to the resolution of appointment (as the case may be).

Scope, authority and responsibility of Nomination and Remuneration Committee

A. Nomination

- 1) Set the policy, criteria and method to recruit the Company Director, Sub-Committee, the Directors of the Subsidiaries, Company Secretary and Top Management (CEO) by considering on the appropriateness of the number, structure and component of the Board of Directors. Determine the qualification of the Director to propose to the Board of Directors and/or seek approval from the Shareholders' meeting as the case may be.
- 2) Consider on the Nomination, selection and propose the list of people with appropriate qualification, knowledge, expertise to assign them to hold the position of the Company Director, Sub-Committee, the Directors of the Subsidiaries, Company Secretary and Top Management (CEO). Apart from that, consider on the profile of such person that they have all qualification as specified by the

relevant laws and does not disagree or conflict with the laws related to the business of the Company.

- 3) Consider determining the policy for Nomination of Management to be the successor in an important position (Succession Plan)
- 4) Review the criteria and method to recruit the Director to propose to the Board of Directors before the Nomination of the Director who reach the duration of position holding
- 5) In the case that Nomination and Remuneration Committee propose the name of the Director who reach the duration to hold the position again, the Nomination and Remuneration Committee will consider the performance of such Director and the performance and contribution as well as the record of the participation in the Board of Directors' meeting and Shareholders' meeting must be proposed to the shareholders for consideration too.
- 6) Prepare the development plan for the Company Director to develop the knowledge of the existing Company Director and the new Company Director, so that they can understand the business of the Company and the Subsidiaries, roles and responsibility of the Company Director and the important developments, such as economic and industry situation, regulations or laws related to the business of the Company and the Subsidiaries, etc.
- 7) Other operations as assigned by the Board of Directors with approval from the Nomination and Remuneration Committee

B. Consideration on remuneration

- 1) Prepare the policy and criteria to determine the remuneration and other benefits of the Board of Directors, Sub-Committee, as the Directors of the Subsidiaries, Company Secretary and Top Management (CEO) for proposing to the Board of Directors and/or seek approval from the Shareholders' meeting as the case may be.
- 2) Determine the remuneration as necessary and appropriate in monetary and non-monetary form to the Board of Directors for each individual in each year by considering the appropriateness and the experience, role, obligation, responsibility, contribution, work performance of the Company and the Subsidiaries and compare to the Company in the same industry and the expected benefits from the Director, and comply with the long term strategy and goal of the Company and connect to the value that the Company created for the shareholders for proposal to the Board of Directors for consideration and proposal to the Shareholders' meeting for approval.
- 3) Determine the guideline for the performance evaluations of Board of Directors, Sub-Committee, the Board of Directors of the Subsidiaries, Company Secretary and Top Management (CEO) for consideration on the annual remuneration
- 4) Reveal the policy about the determination of remuneration and reveal the remuneration in various forms and prepare the report of the determination of remuneration in the annual report of the Company
- 5) Determine the bonus and annual increment rate of the Management and Officers which may be considered from the performance of the Company and the Subsidiaries
- 6) Consider the salary structure and other benefits of the organization

- 7) Take other actions as assigned by the Board of Directors with the approval from the Nomination and Remuneration Committee

In this regard, the assignment of obligation and responsibility of the Nomination and Remuneration Committee, regarding less of by authorization or Sub-authorization that make the assignee of the Nomination and Remuneration Committee be able to approve the transaction the oneself or the person who may have conflict of interest (as defined in the notification of the Capital Market Supervisory Board and/or the Stock Exchange of Thailand and/or relevant organization) have the stake holding have other conflict of interest with the Company or the Subsidiaries and/or the relevant companies, Nomination and Remuneration Committee shall not have the approving authority in such matter. It shall be proposed to the Board of Directors' meeting and/or Shareholders' meeting (as the case may be) for approval. Apart from that, such authorization must be done in writing or record as the resolution of Nomination and Remuneration Committee in the minutes of meeting and specify the scope of authority of the assignee and the duration of the assignment.

Nomination and Remuneration Committee Reporting

The Nomination and Remuneration Committee must report its performance to the Board of Directors and actions taken in the previous year based on its responsibilities to shareholders in the annual report with at least the following details:

- 1) The number of meetings held;
- 2) The number of times each member of the committee attended the meeting; and
- 3) Remuneration for Nomination and Remuneration Committee

Sustainability and Risk Management Committee

As of December 31, 2022, the Company has not appointed the Sustainability and Risk Management Committee yet.

Composition and Appointment of the Sustainability and Risk Management Committee

- 1) The Sustainability and Risk Management Committee is appointed by the Board of Directors with the number of members as the Board of Directors deems appropriate which will consist of the Company's directors and/or executives and/or outsiders. The Sustainability and Risk Management Committee should consist of at least 3 members.
- 2) The Sustainability and Risk Management Committee members do not have to be the Company's directors or employees. They may be qualified third parties without conflicts of interest against the Company.
- 3) The Board of Directors shall elect one member of the Sustainability and Risk Management Committee to chair the Sustainability and Risk Management Committee. In the event that the Board of Directors

deems it appropriate, one or more members of the Sustainability and Risk Management Committee may be elected as vice-chairmen of the Sustainability and Risk Management Committee.

- 4) The Sustainability and Risk Management Committee can appoint one employee of the Company to act as the secretary of the Sustainability and Risk Management Committee. The secretary is to assist the Sustainability and Risk Management Committee in making meeting appointments, preparing agendas, submitting documents, and formulating minutes. The Sustainability and Risk Management Committee has the authority to determine the remuneration (meeting allowance) to its secretary as deemed appropriate.

Qualifications of the Sustainability and Risk Management Committee

- 1) The Sustainability and Risk Management Committee must be knowledgeable and experienced in sustainability and risk management that will be beneficial to the Company's business operations, with integrity, business ethics, and time to dedicate knowledge, competence, and full performance to the Company.
- 2) The Sustainability and Risk Management Committee must be qualified without prohibited characteristics under the laws on public limited companies and securities and exchange and/or any other relevant laws.
- 3) The Sustainability and Risk Management Committee cannot operate, become partners or directors in other juristic persons having the same nature and/or competing with the business of the Company and/or its subsidiaries, whether for their own benefit or the benefit of others, unless notified in the Company's Board of Directors' Meeting or Shareholders' Meeting prior to the appointment resolution (as the case may be).

Tenure

The Board of Directors shall appoint the Sustainability and Risk Management Committee based on their knowledge, expertise, and experience.

Members of the Sustainability and Risk Management Committee who are also directors of the Company have a 3-year tenure of office each term, and will retire according to the term of office of the Company's directors. Upon expiration of the term, they may be re-appointed by the Board of Directors.

Members of the Sustainability and Risk Management Committee have the same tenure of office as the Company's executives, unless otherwise resolved by the Board of Directors.

External members of the Sustainability and Risk Management Committee have a 3-year tenure of office each term and upon expiration of the term, they may be re-appointed by the Board of Directors.

In addition to the above tenure, the Sustainability and Risk Management Committee vacates office upon their:

- 1) Death;
- 2) Resignation;
- 3) Lack of qualifications as directors of the Company or possessing prohibited characteristics under the law on public limited companies, or possessing characteristics that indicate a lack of suitability to be entrusted with managing a publicly held business as specified by the Securities and Exchange Act

(and its amendments), including relevant announcements of the Office of the Securities and Exchange Commission;

- 4) Lack of qualifications as members of the Sustainability and Risk Management Committee according to this charter;
- 5) Removal from office by the resolution in the Board of Directors' Meeting and/or the Shareholders' Meeting; or
- 6) Dismissal ordered by the court.

Any member of the Sustainability and Risk Management Committee who wishes to resign must submit a letter of resignation to the Company. The resignation shall be effective from the date the resignation letter reaches the Company. In the event of a vacant position in the Sustainability and Risk Management Committee, the Board of Directors shall elect a person who is fully qualified to fill such a position.

Authority and Responsibility

- 1) Providing advice on the preparation and/or review of policies, strategies, operational frameworks, strategy implementation guidelines, including goals and issues of sustainability and risk management.
- 2) Supervising and supporting the implementation of sustainability and risk management and pushing for concrete action as well as creating participation in the implementation of various projects under the framework of sustainability and risk management with both internal and external parties involved.
- 3) Providing advice and support so that the implementation of sustainability and risk management occurs throughout the organization and is consistent in the same direction.
- 4) Providing suggestions, guidelines, follow-ups, and evaluation of sustainability and risk management to the management and related operational levels.
- 5) Having the authority to appoint a sustainability working group and/or a risk management working group, and to determine the powers, duties and responsibilities of the sustainability working group and/or the risk management working group, including supervising the operations of the sustainability working group and/or risk management working group to achieve the specified policies and goals.
- 6) Reporting on management results and actions on sustainability and/or risk management to the Board of Directors for acknowledgment as appropriate. In the event that there are important factors or events that may significantly affect the sustainability and/or risk management of the Company and/or its subsidiaries, they must report to the Board of Directors for acknowledgment and consideration as soon as possible.
- 7) Having the authority to appoint the advisory chairman or consultant or an advisory group of the Sustainability and Risk Management Committee as appropriate and the authority to determine remuneration, allowance, welfare, facilities and other expenses of the Chief Advisor or Advisor or Advisory Board as appropriate. The total amount of compensation, allowance, welfare, facilities and other expenses of the Chairman of Advisors or Advisors or Advisory Board is not more than 5 million baht/year. If the amount is exceeded, it must be proposed to the Board of Directors for approval. After the Sustainability and Risk Management Committee appoints the Chief Advisor or Advisor or Advisory Board or sets compensation, allowance, welfare, facilities, and other expenses of the Chief Advisor or Advisor or Advisory Board, they shall report to the Board of Directors for further acknowledgment. The

information about Chief Advisor or Advisor or Advisory Board should be disclosed along with their independence without conflicts of interest in the report.

Duties and responsibilities of the Chairman of the Sustainability and Risk Management Committee

- 1) The Chairman of the Sustainability and Risk Management Committee operates in accordance with the duties and responsibilities mentioned above efficiently and effectively.
- 2) The Chairman has the authority to implement the policies of the Sustainability and Risk Management Committee which is subject to the laws, conditions, rules and regulations of the Company.
- 3) The Chairman supervises business operations to ensure they are in accordance with the policy assigned by the Sustainability and Risk Management Committee.
- 4) The Chairman considers proposing amendments, improvements, various operating regulations as appropriate to the Sustainability and Risk Management Committee for approval.
- 5) 5) The Chairman performs other actions as assigned by the Sustainability and Risk Management Committee. The assignment of duties and responsibilities of the Sustainability and Risk Management Committee will not be considered authorization. or sub-delegation that allows the delegates from the Sustainability and Risk Management Committee to approve transactions that he or she may have conflicts of interest with, (according to the announcement by the Capital Market Supervisory Board and/or the Stock Exchange of Thailand and/or relevant agencies) or have a stake or any other conflicts of interest with the Company or its subsidiaries and/or related companies. The Sustainability and Risk Management Committee does not have the authority to approve such actions, which must be proposed to the Board of Directors and/or in the shareholders' meeting (as the case may be) for further approval, except for the approval of transactions under normal business and normal trading conditions according to the announcement of the Capital Market Supervisory Board and/or the Stock Exchange of Thailand and/or related agencies. The delegation of such authority must be made in writing or clearly recorded as part of the resolution of the Sustainability and Risk Management Committee in the meeting minutes, with clear specification of the scope of authority of the attorney and the duration of the authorization.

Meeting

- 1) A meeting of the Sustainability and Risk Management Committee shall be held at least twice a year or as appropriate. In every meeting of the Sustainability and Risk Management Committee, the secretary of the Sustainability and Risk Management Committee, in consultation with the Sustainability and Risk Management Committee Chair, shall set the meeting agenda in advance.
- 2) The Chairman of the Sustainability and Risk Management Committee or the Sustainability and Risk Management Committee assigned by the Chairman of the Sustainability and Risk Management Committee shall determine the date, time and place of the Sustainability and Risk Management Committee meeting. The meeting venue may be outside the Company's head office or nearby provinces. Provided that the Chairman of the Sustainability and Risk Management Committee or the Sustainability and Risk Management Committee assigned by the Chairman of the Board of Directors does not specify the meeting venue, the Company's head office shall be used.

- 3) In convening meetings of the Sustainability and Risk Management Committee, the Chairman of the Sustainability and Risk Management Committee or the assigned person shall send the meeting invitation to the Sustainability and Risk Management Committee or a representative of the Sustainability and Risk Management Committee directly, along with the specified date, time, place, and business of the meeting to the Sustainability and Risk Management Committee at least 7 days prior to the meeting date. In case of urgent necessity, to maintain the benefits of the Company, they may send the meeting invitation by other methods or an earlier meeting date may be set.
- 4) At the meeting of the Sustainability and Risk Management Committee, at least half of the number of Sustainability and Risk Management Committee members must be present in order to constitute a quorum. In case the Chairman of the Sustainability and Risk Management Committee is absent from the meeting or unable to perform duties, the Sustainability and Risk Management Committee attending the meeting shall elect one of the Sustainability and Risk Management Committee members to preside over the meeting.
- 5) Resolutions of the Sustainability and Risk Management Committee can be made by majority vote. However, members of Sustainability and Risk Management Committee with conflicts of interest in any matter must not be present at the meeting during such a matter and they shall have no right to vote on that matter.
- 6) The decision of the Sustainability and Risk Management Committee meeting shall be made by a majority of votes, with one Sustainability and Risk Management Committee member having one vote. Any member of the Sustainability and Risk Management Committee who has an interest in any matter has no right to vote on that matter. If the votes appear to be equal, the chairman of the meeting shall have an additional vote as a casting vote.
- 7) The Sustainability and Risk Management Committee may invite other persons such as executives, the Company auditors, consultants, employees and/or other relevant persons to attend the meeting as appropriate. They may also consider having a separate meeting with such other persons if there are specific issues or considerations that should be discussed separately.

Report of the Sustainability and Risk Management Committee

The Sustainability and Risk Management Committee must report its performance to the Board of Directors and its operation of the previous year to the shareholders in the annual report by disclosing at least the following details

- 1) The number of meetings,
- 2) The number of times each Sustainability and Risk Management Committee member attends the meeting,
- 3) Remuneration for the Sustainability and Risk Management Committee, and
- 4) The performance of duty according to the specified charter.

Executive Committee

For the year ended December 31, 2022, the Executive Director Board consisted of 6 Directors as follows:

Name	Position	Number of meeting attended / Number of meeting (after appointed as Directors)
		2022
1. Miss. Jiratha Songmetta	Chairman of Executive Committee	9/9
2. Mr. Teerawut Songmetta	Member of Executive Committee	9/9
3. Mr. Pornmett Songmetta	Member of Executive Committee	6/9
4. Mr. Tanavijit Ankapiatchai	Member of Executive Committee	9/9
5. Mr. Tanachai Bunditvorapoom	Member of Executive Committee	9/9
6. Pol.Lt.Gen. Dr. Adul Narongsak ¹	Member of Executive Committee	9/9

Note: - Pol.Lt.Gen. Dr. Adul Narongsak is an executive Director who is not an employee or Executive of the Company or any subsidiary companies
 - Mr. Chainart Buathong acts as the Secretary for the Executive Director Board

¹ The Company Directors who are not the Directors and Executive by the definition of SEC are responsible to prepare reports of changes in holding securities and futures ("Report Form") according to the Executive Securities holding report (section 59) and have to report to the Company Secretary within 3 days every time there is a change in the holding of the Company's Securities. After receiving the report, the Company Secretary will present the report to the Board of Directors in the next Board of Directors meeting.

Components and appointment of Executive Committee

- 1) Appoint by the Board of Directors with the number that the Board of Directors seen appropriate. The Executive Committee shall consist of Company Director and/or Management of the Company. In this regard, the Executive Board should have no fewer than 5 members and not more than 10 members.
- 2) Executive Committee does not need to be the Company Director or the Company Officers. The outsider who has appropriate qualification and does not have conflict of interest with the Company, the Executive Committee should specify the appropriate reason and necessity for the consideration to appoint clearly.
- 3) The Board of Directors will select one of the Executive Committee members to be the Chairman of the Executive Committee. In the case that the Board of Directors seen appropriate, one or more of the Executive Committee members may be selected to be the Vice Chairman of the Executive Committee.
- 4) Chairman of the Executive Committee may be the same person as the CEO.
- 5) The Executive Committee can appoint an Officer of the Company to be the Secretary of the Executive Committee to facilitate the operation of the Managements about the meeting appointment, agenda preparation, delivering the meeting document and recording the minutes of meeting. In this regard, the Executive Committee has authority to determine the remuneration (meeting allowance) for the Secretary of the Executive Committee as seen appropriate.

Qualification of the Executive Committee

- 1) Executive Committee must be the person who have knowledge, ability and experience that is useful for the business operation of the Company with honesty, morality and good governance and have enough time to give knowledge, ability and work for the Company at best effort.
- 2) Executive Committee must be the person who is qualified and does not have the prohibited characteristic according to the law concerning Public Company Limited and laws concerning Securities and Stock Exchange, and/or other relevant laws.
- 3) Executive Committee cannot run the business, be the partner or be the Director in other juristic person with the same condition and/or be the competitor with the business of the Company and/or the Subsidiaries and/or the Joint venture, regardless of for one's own benefit or benefit of other person, unless notified the Board of Directors' meeting or Shareholders' meeting of the Company prior to the appointment (as the case may be).

Scope, authority and responsibility of Executive Committee

- 1) Run the business and operate the Company and the Subsidiaries according to the objective, regulations, policy, rules, requirement, order and resolution of the Board of Directors' meeting and/or Shareholders' meeting of the Company under the relevant law.
- 2) Consider the proposal of the Administrative Division to determine the structure of the organization, vision, mission, target, policy direction, business strategy, business operation of the Company and the Subsidiaries, work plan, investment for business expansion, public relation, financial planning, annual report, budget as well as annual budget, human resource Management, investment in information technology for proposal to the Board of Directors' meeting for consideration.
- 3) Having the authority to appoint the working group to run the business or the administration of the Company and/or the Subsidiaries and/or the Joint venture and determination of the authority, duty and responsibility of the working group as well as the supervision to make the operation of the appointed working group achieve the policy and target.
- 4) Provide suggestion, advice and determine the guideline for the policy and authority of the CEO and special working group
- 5) Monitor the work performance of the Company and the Subsidiaries to be in accordance with the policy and the target approved by the Board of Directors and supervise the operation to have good quality and efficiency.
- 6) Consider on annual budget allocation as proposed by the Administrative Division before the consideration and approval by the Board of Directors
- 7) Having the authority to approve the financial expenses for the operation that is normal transaction of the business of the Company, but not more than the budget approved by the Board of Directors
- 8) Study the possibility of the new projects and consider approving the participation in the bidding, as well as the operation in the projects as seen appropriate, including the legal actions related to such matter until completion. In this regard, such authority shall be in accordance with the approving authority set by the Board of Directors and comply with the law provision concerning security and security exchange.

- 9) Approve the important investment as specified in the annual expense budget as assigned by the Board of Directors or as the Board of Directors has approved in principle.
- 10) Having the authority to approve the borrowing, financial transaction with the bank or the financial institution for supporting the normal operation, such as opening bank account, closing bank account, offering the loan of the Company and/or the Subsidiaries, seeking credit limit or apply for loan of the Company according to the approving authority table as approved from the Board of Directors.
- 11) Consider and monitor the work performance of the Company and/or the Subsidiaries and propose the interim dividend payment or annual dividend payment to propose to the Board of Director for approval.
- 12) Determine the structure of the organization, administration authority as well as appoint, employ, relocate, terminate employment, determine the wages, remuneration, bonus of Officers at Management level, from Director of the division or equivalent upwards, except for the CEO.
- 13) Having the authority to authorize other person to take an action under the supervision of the Executive Board or authorize the person to have the authority as the Executive Board seen appropriate and within the time that Executive Board seen appropriate. The Executive Board may cancel, revoke, change or amend the authorized person or such authorization as seen appropriate.
- 14) Having the authority to appoint the Chairman of the Advisory Board, the Advisor, or the Advisory Board of the Executive Committee as seen appropriate and authorized to determine the remuneration, allowance, welfare, facility and other expenses of the Chairman of the Advisory Board, the Advisor, or the Advisory Board of the Executive Committee as seen appropriate. The total amount of remuneration, allowances, welfare, amenities, and other expenses of the Chairman of the Advisory Board, the Advisor, or the Advisory Board of the Executive Committee must not exceed 5 million baht/year. Any exceeded amount must be presented to the Board of Directors for approval.

After having appointed a Chairman of the Advisory Board, an Advisor, or an Advisory Board of the Board of Directors, or determined the remuneration, allowances, welfare, amenities, and other expenses of the Chairman of the Advisory Board, the Advisor, or the Advisory Board of the Board for Directors, the Executive Committee must report to the Board of Directors for acknowledgment. The information and details of the Chairman of the Advisory Board, the Advisor, or the Advisory Board of the Board of Directors should be disclosed in the annual report to show that they are independent without any conflict of interest.

- 15) Having the authority to appoint Managements of the Company to perform all positions, except for the CEO which requires the approval from the Board of Directors, as well as be able to authorize any person to take action on its behalf in any matter under the responsibility and obligation as Executive Board as seen appropriate.
- 16) Executive Board or Chairman of Executive Board is authorized to all for Executive Board meeting and/or determine the regulations of the meeting as seen appropriate.

- 17) In case the Chairman of the Executive Board cannot perform the obligation, the Chairman of the Executive Board shall appoint the person in charge to perform duty on their behalf on case-by-case basis. The person in charge shall have equal authority as Chairman of the Executive Board.
- 18) Approve the authorization to operate administration for the Management according to the regulations.
- 19) Supervise the Company to have the internal control system that is suitable, concise and efficient by coordinating with the Audit Committee.
- 20) Propose the list of people who have appropriate qualification to the Board of Directors for considering to appoint as the Director and/or Management in the Subsidiaries and/or the Joint venture at least according to the ratio of shareholding of the Company, as well as determining the compliance policy of the Subsidiaries and/or the Joint venture to propose to the Board of Directors for approval
- 21) Other operation as assigned by the Board of Directors.

Authority of the Chairman of Executive Committee

- 1) The Chairman of Executive Committee must take action to comply with the obligation and responsibility mentioned above efficiently and effectively.
- 2) Having the authority to take action according to the policy of Executive Committee which is under the law, condition, rules and regulation the Company.
- 3) Supervising the business operation according to the policy assigned by the Executive Committee
- 4) Considering amending and improving the work regulations as appropriate to the Executive Committee for approval
- 5) Taking other action as assigned by Executive Committee

In this regard, the assignment of obligation and responsibility of the Executive Board, regardless of by authorization or Sub-authorization that make the assignee of the Executive Board be able to approve the transaction the oneself or the person who may have conflict of interest (as defined in the notification of the Capital Market Supervisory Board and/or the Stock Exchange of Thailand and/or relevant organization) have the Shareholding have other conflict of interest with the Company or the Subsidiaries and/or the relevant companies, Executive Board shall not have the approving authority in such matter. It shall be proposed to the Board of Directors' meeting and/or Shareholders' meeting (as the case may be) for approval. Apart from that, such authorization must be done in writing or record as the resolution of Executive Board in the minutes of meeting and specify the scope of authority of the assignee and the duration of the assignment.

Executive Committee Reporting

The Executive Committee must report its performance to the Board of Directors and actions taken in the previous year based on its responsibilities to shareholders in the annual report with at least following details:

- 1) The number of meetings held;
- 2) The number of times each executive attended the meeting; and
- 3) Remuneration for the Executive Committee

7.4 Management Executive

Executive Board

For the year ended December 31, 2022, the Company had 6 Executives as follows:

Name	Position
1. Mr. Tanachai Bunditvorapoom	Chief Executive Officer
2. Mr. Teerawut Songmetta	Chief Executive Technology & Innovation Officer
3. Mr. Pornmett Songmetta	Chief Operating Officer
4. Mr. Tanavijit Ankapipatchai	Chief Finance Officer
5. Ms. Sadudta Navaskul	VP-Finance & Accounting
6. Ms. Wannee Sukpiboonrut	Accounting Manager

Chief Executive Officer (CEO)

Scope, authority and responsibility of CEO

- 1) Supervise, administer, operate and perform the normal tasks according to the normal business for the benefit of the Company and the Subsidiaries, as well as the benefit of the Group in overall, to be in accordance with the objectives and regulations, as well as rules, resolution, policy, work plan and budget as specified by the Executive Board, the Board of Directors and/or Shareholders' meeting resolution under the relevant law and authority specified by the Board of Directors and/or Executive Board.
- 2) Supervise the business and/or administer the daily work of the Company and the Subsidiaries, as well as the report of work performance of the Company and the Subsidiaries, suggest the alternative and measures that comply with the policy to the Executive Board and/or the Board of Directors.
- 3) Prepare and present policy on business, business plan, business expansion, human resource Management, vision, mission, target, business planning, business strategy, public relation, annual report, annual budget of the Company and the Subsidiaries as well as the group in overall, for using in the business operation and set the administration authority for proposing to the Executive Board and/or the Board of Directors.
- 4) Examine, monitor and evaluate the work performance of Management Division and Administrative Division of the Company and the Subsidiaries, as well as the Joint venture that are invested in regularly and propose the suggestion on the solution to the obligations, so that the Management and Administrative Division can operate according to the strategy and business planning to comply with the policy and goal of the Company and the Subsidiaries, as well as reporting to the Board of Directors every quarter.
- 5) Issue the order, rules, notification and memorandum of understanding to ensure that the operation of the Company and the Subsidiaries are in accordance with the policy and for the benefit of the Group, as well as to maintain the discipline in the organization.

- 6) Be the representative of the Company or the Group as well as have the authority to assign ant person to contact with the external organization, which include the government agencies and other regulators.
- 7) Determine the structure of the organization, administration, including the selection, develop and train, employment, appointment, relocation and termination of employment, of the officer, and determine the wages, salary, remuneration, bonus and welfare of Officers under the framework and policy set by the Board of Directors.
- 8) Having the authority to appoint and remove the officer or employee in the position lower than the Management.
- 9) Negotiate and enter into contract and/or transaction related to the normal business operation of the Company under the authorization and limitation of money as specified in the approving authority table approved by the Board of Directors.
- 10) Have approving authority for the expanse in normal business operation of the Company according to the approving authority table considered and approved by the Board of Directors, such as asset purchase, loan applying for loan from the financial institution, important investment and conduct other transaction for the benefit of the Company, which the approving authority is the normal transaction of the business.
- 11) Perform other obligation as assigned by Executive Board or the Board of Directors.

In this regard, in any operation that the CEO or the assignee to perform the obligation and responsibility of CEO, or the person who may have conflict of interest (as defined in the notification of the Capital Market Supervisory Board and/or the Stock Exchange of Thailand and/or relevant organization) have the stake holding have other conflict of interest with the Company or the Subsidiaries and/or the relevant companies, CEO shall not have the approving authority in such matter. It shall be proposed to the Board of Directors' meeting and/or Shareholders' meeting (as the case may be) for approval, unless it is the approval of the normal business operation and normal trading condition as stated in the notification of Capital Market Supervisory Board and/or the Stock Exchange of Thailand and/or relevant organization.

Report of changes in the holdings of securities of Directors and Executives of the Company in 2022

Name	Number of Shares / Changes		Number of Shares increase (decrease) during the year
	For the year ended December 31, 2021	For the year ended December 31, 2022	
Board of Directors Name			
1. Mr. Monton Sudprasert, spouse and underage child	- -	- -	- -
2. Mr. Charoon Intachan, spouse and underage child	- -	- -	- -
3. Ms. Chonticha Chitraporn, spouse and underage child	- -	- -	- -
5. Mrs. Patchanee Sutheevitanunt, spouse and underage child	- -	- -	- -
6. Mr. Nuekrak Baingern, spouse and underage child	- -	- -	- -
7. Mrs. Jiratha Songmetta, spouse and underage child	- -	- -	- -
Executive Committee Name			
1. Mr. Tanavijit Ankapipatchai, spouse and underage child	20 -	20 -	- -
2. Mr. Teerawut Songmetta, spouse and underage child	1,820,563,120 -	1,826,885,820 -	6,322,700 -
3. Mr. Pornmett Songmetta, spouse and underage child	2,088,884,200 -	2,088,884,200 -	- -
4. Mr. Tanachai Bunditvorapoom, spouse and underage child	- -	- -	- -
5. Ms. Sadudta Navaskul, spouse and underage child	- -	- -	- -
6. Ms. Wannee Sukpiboonrut, spouse and underage child	- -	- -	- -

Executive's Remuneration

Monetary Remuneration

For the fiscal year ending December 31, 2022, the Company had the expenses for the executives as follows:

Type of Remuneration	Total Expenses for Executives (baht)
	For the Fiscal Year Ending December 31, 2022
Number of Executives (Person)	4
Salary, Bonus, Provident Fund, and Other Benefits (baht) ¹	20,887,830

Note: ¹ Remuneration for the executives did not include the VP-finance & accounting and the accounting manager.

Non-monetary Remuneration

-None-

7.5 Employees

The Group's Employees

Number of Employees

For the year ended December 31, 2022, the Group has a total number of 858 employees (excluding the executives) with the details as follows:

Company	Number of Employee (Person)		
	For the year ended December 31, 2020	For the year ended December 31, 2021	For the year ended December 31, 2022
1. Operation Department	605	648	670
2. Executive Department	12	11	9
3. Finance/Accounting Department	76	69	70
4. Business Development Department	24	27	30
5. Purchasing & Performance Development Department	14	15	19
6. Legal Department	7	6	9
7. Information Systems and Technology Department	18	17	18
8. Human Resource Department	26	25	23
9. Internal Audit Department	11	9	8
10. Investor Relations Department	1	1	2
Total	794	828	858

Number of male employees and number of female employees

As of December 31, 2022, the Group has a total of 660 male employees, representing 77% of the total number of employees, and a total of 196 female employees, representing 23% of the total number of employees.

Employee's Remuneration

For the year ended December 31, 2022, the Group has a total number of 858 employees (excluding the executives). The total employee's remuneration (excluding the executives) is 348,726,525.13 baht. The remuneration includes salary, bonus, provincial fee, position fee, and other benefits.

Provident Fund

The 6/2018 Board of Directors meeting on June 19, 2018, approved the establishment of a provident fund for all employees in the Group, under the Management of Siam Commercial Bank Asset Management Co., Ltd. with the objective to be a welfare for employees who are considered an important resource of the Group.

Number of employees attending provident fund

As of December 31, 2022, the Group has employees participating in Provident fund program totaling 290 employees, representing 33 percent of the total number of employees.

Employee turnover statistics

As of December 31, 2022, the Group has a statistics of employee turnover at 31%.

Labor Disputes

The Group does not have any significant labor disputes with the Group's operation in the past 3 years.

Staff Development Policy

The Group considers the staff development significant because the Group believes that the human resources are valuable to the sustainable growth of the development of the organization. As a result, the Group's employee will be trained and developed to have values and capabilities to operate systematically and continuously for the advance in career path and long-term growth of the company.

The staff development policy aims to increase knowledge, skill, and good attitudes for the job through company's 3 courses, which are

- 1) Pre-Service Training, a training course aims to prepare the trainees before taking over the job to have knowledge and skill to work efficiently to the assigned tasks. The content of the training would comprehensively focus on necessary aspects for the detailed work. Usually, the courses in the training would be about orientation such as the corporate introduction, the corporate culture, welfares and pays, and basic course work.
- 2) In-Service Training, a training course aims to increase the knowledge, skill and attitudes for the trainees to work more efficiently, to solve the work problems caused by the trainees themselves, or to prepare the trainees for the change in working field. The course is conducted in many different forms such as on the job training, classroom training, and self-learning or E-Learning.

- 3) Pre-Promotion Training, a course aims to increase the knowledge in Executive, leadership, people Executive, etc. for the trainees to efficiently have role competency. In other words, it is a course to prepare the trainees for the promotion.

7.6 Other Important Information

Company Secretary

The 1/2018 Board of Directors meeting (after transformation) on July 19, 2018, appointed Mr. Chainart Buathong as the Company Secretary (details of the Company Secretary are shown in the attachment 1) The Company Secretary is required to graduate from law or accounting, or undergo a training course related to the work of the Company Secretary. The Company Secretary has the following responsibilities:

1. Inform the resolutions and policies of the Board of Directors and shareholders to relevant executives, as well as giving advice and preliminary recommendations to the Board, in accordance with the Company's regulations and Corporate Executive practices.
2. Prepare and store the following documents:
 - 1) Director registration
 - 2) Board meeting notice, Board meeting report, and the Company's annual report
 - 3) Shareholders meeting notice, and the meeting report
3. Instruct the Directors and executives to do the Executive Securities holding report, keep the report, send the copies to the chairman and the Chairperson of audit committee
4. Arrange the shareholders meeting and Board of Directors meeting, to be in accordance to the law, the company regulations, charter of each committee, and the code of conduct, as well as recording the meeting minutes and monitoring the implementation of the resolutions from the meeting
5. Ensure the disclosure of information and report for the relevant department
6. Oversee the business of the Board of Directors and coordinate between the Board and the Executives, as well as providing news and information to Directors regarding issues related to the company's business operations and reporting significant changes to the Company's Directors
7. Arrange the assessment of the Board and individual's performance, and report the assessment to the Board of Directors
8. Perform any actions to ensure the compliance with the Securities and Exchange law, as well as other laws and relevant regulations
9. Perform other activities that the company has assigned

Investor Relations Department

Mr. Jiraroj Charenrungjiranont – Senior Investor Relations Manager

Email: IR@ace-energy.co.th Tel: 065-986-4103

Audit Fee

The Group of Company makes payment to PricewaterhouseCoopers ABAS Ltd. and Audit and Advisory Services Co., Ltd. as the Auditor and the Company that gives opinion to the financial statement of the Company and the Subsidiaries. The details of the payments for the accounting period ended December 31, 2020, 2021 and 2022 are as follows:

Audit Fee	For the Accounting Period Ended		
	December 31, 2020 (Baht)	December 31, 2021 (Baht)	December 31, 2022 (Baht)
the Company	2,190,000	2,125,000	2,125,000
the Subsidiaries and the indirect Subsidiaries	11,862,000	8,787,000	9,697,000
Total	14,052,000	10,912,000	11,822,000

The individual and business related to the Auditor and the office of the Auditor are not the individual and business related to the Company.

Non-Audit Fee

For the fiscal year ended December 31, 2020, 2021 and 2022 the Company did not have Non-Audit Fee





8. Corporate Governance Report

8.1 Summary of performance of the Board of Directors in the past year

Performance Assessment of the Board of Directors and sub-committees

Board of Directors arrange for the performance appraisal of the Board of Directors and sub-committees annually. The Board of Directors and the Audit Committee arrange 2 types of assessments were provided As a Whole-Assessment and Individual Self-Assessment. The Nomination and Remuneration Committee and the Executive Committee In this regard, the Company has organized one type of evaluation, i.e., Board evaluation (As a Whole) for the Board consider the performance of the Board of Directors and sub-committees and operational problems for improving work efficiency by the self-assessment process of the Board of Directors. And that sub-committee, Company Secretary and the secretary of the sub-committee will send the assessment form. All directors 'assessment will be sent to the Company Secretary and secretary of sub-committees to process and summarize scores and report to the sub-committee meetings and the meeting of the Board of Directors for acknowledgment.

The main subject in the performance assessment can be summarized as follows:

Self-assessment as a whole					Self-assessment for individual	
	Board of Directors	Audit Committee	Nomination and Remuneration Committee	Executive committee	Board of Directors	Audit Committee
1) Structure and qualification of Board of Directors	✓	✓	✓	✓	✓	✓
2) Meeting	✓	✓	✓	✓	✓	✓
3) Roles, obligations and responsibility of Board of Directors	✓	✓	✓	✓	✓	✓
4) Other matters, such as relation between the Board of Directors and the self-development of Director and Management development	✓					

Assessment Results

In 2022 Board of Directors assessment results and the sub-committees are as follows;

- (1) The overall performance evaluation of the Board of Directors of all topics is at the level of excellence with the total score of all topics, representing 99.17% and the individual performance appraisal results in all topics at the level of excellence by getting the average overall score of all topics, representing 99.17%
- (2) The overall performance evaluation of the Audit Committee in all topics is at the level of excellence with the total score of all topics, representing 95.00% and the individual performance appraisal results in all topics at the level of excellence by getting the average overall score of all topics, representing 95.50%
- (3) The overall performance evaluation of the Nomination and Remuneration Committee in all topics is at the level of excellence by getting the average overall score of all topics, representing 97.37%

- (4) The overall performance evaluation of the Executive Committee in all topics is at the level of excellence by getting the average overall score of all topics, representing 97.22%

Directors and Executive's Remuneration

Monetary Remuneration

The Annual General Shareholders Meeting and the Board of Directors meeting has approved the remuneration for the Board of Directors, and sub-committees consisting of the Audit Committee, Nomination and Remuneration Committee, Sustainability and Risk Management Committee and the Executive Board of Directors, with the details as follows:

- (1) Meeting fee and monthly salary

Board of Directors	Meeting Attendance	Meeting Allowance (Baht/time)	Monthly Salary (Baht/month)
	2022 ¹	2022 ¹	2022 ¹
Board of Directors			
- Chairman	8 / 8	30,000	30,000
- Directors	8 / 8	25,000	25,000
Audit Committee			
- Chairperson of Audit Committee	7 / 7	25,000	-
- Audit Committee Member	7 / 7	20,000	-
Nomination and Remuneration Committee			
- Chairperson of Nomination and Remuneration Committee	3 / 3	25,000	-
- Nomination and Remuneration Committee Member	3 / 3	20,000	-
Sustainability and Risk Management Committee			
- Chairperson of Sustainability and Risk Management Committee	0 / 0	25,000	-
- Sustainability and Risk Management Committee Member	0 / 0	20,000	-
Executive Board			
- Chief Executive Officer	9 / 9	25,000	-
- Executive Director	9 / 9	20,000	-

Note: ¹ The Company's Annual General Shareholder Meeting on April 28, 2022 approved the remuneration of the Board of Directors and Sub-Committee for 2022.

In this regard, the conditions for paying meeting allowances and monthly salaries are as follows:

- 1) Directors that hold various positions in various committees would receive the salary for the highest position only.
- 2) The Audit Committee and the Chairperson of Audit Committee would receive the salary as a Director.
- 3) Directors that receive the salary as the Company's employee would not receive the salary as a Director again.
- 4) The remunerations approved by the shareholders 'meeting shall remain in effect until the next shareholders' meeting resolves to amend or change otherwise.

(2) Bonus

At the 2022 Annual General Meeting of Shareholders on April 28, 2022, the resolution was resolved to approve the remuneration to directors from the Company's operating results for the year ended December 31, 2021 in an amount not exceeding 1,000,000 baht. The Nomination and Remuneration Committee were responsible for allocating such amount of money to each director under the approved amount. The Nomination and Remuneration Committee considered the allocation of bonuses to each director with total amount of 999,400 baht. For the 2022 bonus remuneration of the Directors, will be considered when the operating results for the year 2022 were announced and will be presented to the AGM for further approval.

For the fiscal year ending December 31, 2022, the Company had expenses for the payment for the Directors, the Audit Committee, the Nomination and Remuneration Committee, and the Executive Board of Directors, with the details as follows:

Name	Total Expenses for Directors Remuneration (Baht) For the Fiscal Year ending December 31, 2022				
	Board of Director	Audit Committee	Nomination and Remuneration Committee	Executive Committee	Total
1. Mr. Monton Sudprasert	600,000	-	-	-	600,000
2. Mr. Charoon Intachan	425,000	-	-	-	425,000
3. Mrs. Jiratha Songmetta	500,000	-	60,000	225,000	785,000
4. Ms. Chonticha Chitraporn	500,000	175,000	-	-	675,000
5. Mrs. Patchanee Sutheevitanunt	500,000	140,000	75,000	-	715,000
6. Mr. Nuekrak Baingern	500,000	140,000	60,000	-	700,000
7. Mr. Teerawut Songmetta	200,000	-	-	180,000	380,000
8. Mr. Pornmett Songmetta	175,000	-	-	120,000	295,000
9. Mr. Tanavijit Ankapipatchai	200,000	-	-	180,000	380,000
10. Mr. Tanachai Bunditvorapoom	200,000	-	-	180,000	380,000
11. Pol.Lt.Gen. Dr.Adul Narongsak	-	-	-	180,000	180,000
Total	3,800,000	455,000	195,000	1,065,000	5,515,000

Non-monetary Compensation

-None-

Supervision of Subsidiaries and Associated Companies

Approving authority of the Company and the Subsidiaries

The Company has specified that the Board of Directors has approving authority in various matters of the Company according to the scope of obligation specified by law, regulations of the Company, the Board of Directors' charter and Shareholders' meeting resolution, as well as the revision of the strategy in the operation on yearly basis and revise the work plan, annual budget, investment plan, cost of investment, as well as the budget of operating expenses of the Company, monitoring and work performance assessment according to the plan. The approvals that are important, while the Management is responsible for managing the activities of the Company as assigned by the Board of Directors and approve the transaction that is in the annual budget as approved by the Board of Directors.

Supervising the operation of the Subsidiaries and the Joint venture

- 1) The Board of Directors has an obligation to monitor and supervise the administration and operation of the Subsidiaries and/or the Joint venture (*mutatis mutandis*), to be in accordance with the policy specified by the Company, the laws related to business operation, as well as the laws concerning stock and stock exchange, notification of Capital Market Supervisory Board, regulations of the Stock Exchange of Thailand, *mutatis mutandis*, to the extent that it does not disagree or conflict with other laws.
- 2) The Board of Directors has obligation to appoint the representative to be the Director and Management in the Subsidiaries and/or the Joint venture at least according to the ratio of shareholding in the Subsidiaries and/or the Joint venture of the main business and there must be a code of conduct or regulations, so the submission of such person must be approved by the Board of Directors' meeting. The scope of obligation and responsibility of the representative who is appointed to hold the position of the Director and Management in the Subsidiaries must be clearly specified and there must be the result of the consideration of Director and Management in the Board of Directors' meeting of the Subsidiaries in an important issue must obtain the approval from the Board of Directors' meeting in advance, except for the case that there is limitation by other law or the condition about joint investment with government agency or in any other cases according to the laws concerning security and security exchange, notification of Capital Market Supervisory Board or regulations of the Stock Exchange of Thailand. In this regard, the Director and Management of the Subsidiaries and/or the Joint venture mentioned above that are appointed or proposed must be a qualified person with roles, obligations and responsibility as defined by the relevant law, and there shall not have the characteristic that is not reliable according to the notification of the Capital Market Supervisory Board, concerning the characteristic that is not reliable of the Director and Management of the Company.
- 3) The Board of Directors has an authority to take action to make the Subsidiaries and/or the Joint venture to have internal control system, risk Management system and anti-corruption system, as well as setting the standard for work performance monitoring system of the Subsidiaries and/or the Joint venture efficiently, regularly and precisely enough to ensure that the operations of the Subsidiaries and/or the Joint venture will be in accordance with the work plan, budget, policy of

the Company, as well as the laws and notification on Corporate Governance of the registered Company as well as the notification, regulations and criteria related to Capital Market Supervisory Board the Securities and Exchange Commission and the Stock Exchange of Thailand genuinely and continuously. Apart from that, the Board of Directors also have the obligation to monitor the Director and Management of the Subsidiaries and/or the Joint venture to comply with the roles and responsibility specified by law.

- 4) The Board of Directors is responsible for monitoring the Subsidiaries and/or the Joint venture to reveal significant information, such as information about financial status and work performance, relevant transaction, and the items that may have conflict of interest of the Subsidiaries and/or the Joint venture, the item acquired and sold which are significant asset and any other items that are important, normal transaction of the Subsidiaries and/or the Joint venture, etc. In this regard, the disclosure of such information must be adequate, complete, correct and be on time as specified by the Company and comply with the criteria of the related organization.
- 5) In the case that the Subsidiaries agree to conduct the transaction that is related to the related person of the Subsidiaries or the transaction related to the acquisition or sale of the asset of the Subsidiaries according to the criteria specified in the notification of Capital Market Supervisory Board and/or the notification of the Stock Exchange of Thailand (as the case may be). The Company and the Subsidiaries must comply with the criteria and method as specified by such notification before conducting the transaction, mutatis mutandis. The Subsidiaries must comply with the criteria and method as specified by such notification in the same manner as the Company has conducted such transaction on one own.
- 6) In this regard, such transaction requires the approval from the Board of Directors' meeting and/or Shareholders' meeting of the Company according to the notification of Capital Market Supervisory Board and/or the notification of the Securities and Exchange Commission and/or relevant laws. The Company and the Subsidiaries shall consider the size of the transaction as compared to the consolidated financial statements of the Company.

Scope of authorization and responsibility of the Director and Management of the Subsidiaries and the Joint venture

The Company Sub-Committee and/or the Joint venture have authority, obligation and responsibility in managing the Subsidiaries and/or the Joint venture to comply with the law, objectives and regulations of the Subsidiaries and/or the Joint venture as well as the resolution of Sub-Committee's meeting and/or the Joint venture Shareholders' meeting resolution of the Subsidiaries and/or the Joint venture with honesty and be careful to keep the benefits of the Subsidiaries and/or the Joint venture. The operation of the Director and Management of the Subsidiaries and/or the Joint venture shall have the scope, authority and responsibility as specified by the Board of Directors. The Director and Management of the Subsidiaries and/or the Joint venture shall have the discretion to consider and vote in the Board of Directors' meeting of the Subsidiaries and/or the Joint venture concerning general administration and normal operation of the Subsidiaries and/or the Joint venture as the Director and Management of the Subsidiaries and/or the Joint venture seen appropriate for maximum benefit of the Subsidiaries and/or the Joint venture and shareholders, as follows:

1) Director and Management of the Subsidiaries and/or the Joint venture must follow the obligation and responsibility as specified by law and follow the work plan budget and policy of the Company.

2) Director and Management of the Subsidiaries and/or the Joint venture must reveal the important information, such as information about financial statement and performance, related transaction and the transaction that may have conflict of interest with the Subsidiaries and/or the Joint venture, the transaction of acquisition or sale of the significant asset and any other items that are important, which is not normal operation of the Subsidiaries and/or the Joint venture to the Company for acknowledgement, adequately, completely, correctly and in timely manner, mutatis mutandis. In this regard, the Board of Directors of the Subsidiaries considers the related transaction acquisition or sale of the significant asset and ant other important transaction that is not normal operation of the Subsidiaries. The related notification of Capital Market Supervisory Board and the notification of the Securities and Exchange Commission shall be enforcing, mutatis mutandis.

3) Director and Management of the Subsidiaries must reveal and deliver the information of the stake holding of oneself and person who may have conflict¹ to Board of Directors of the Company and the Subsidiaries and/or Company Secretary who are aware of the relation and transaction of the Subsidiaries or the Company in the manner that it may cause conflict of interest and avoid the transaction that may cause conflict of interest with the Subsidiaries or the Company. The Board of Directors of the Subsidiaries has obligation to report such information to the Board of Directors of the Company for acknowledgement in the time as specified by the Company as the information for consideration to make decision or approve. Such consideration must focus in the overall benefit of the Subsidiaries and the Company.

In this regard, Director and Management of the Subsidiaries and the Joint venture must not participate in approving the subject that they are the stake holder or may have the conflict of interest.

The following action is the action which make the Director, Management or people who may have conflict of the Subsidiaries and the Joint venture, receive monetary return other than those normally get or is the cause making the Subsidiaries or the Joint venture or the Company suffer from damage, it shall be considered that such actions have conflict against the benefit of the Subsidiaries or the Joint venture or the Company significantly.

- (A) The transaction between the Subsidiaries and Director, Management or people who may have conflict of the Subsidiaries, does not comply the criteria of the relevant transaction.
- (B) Maximize the benefit of data use of the Company or the Subsidiaries or the Joint venture the they are aware of for the benefits of one's or other people, unless the information is announced to the public.
- (C) The use of asset or business opportunity of the Company or the Subsidiaries or the Joint venture in the same manner as the Company or the Subsidiaries or the Joint venture take action and violate criteria or the general operation rules as the Securities and Exchange Commission, or Capital Market Supervisory Board specified.

4) Director and Management of the Subsidiaries and/or the Joint venture must report the business operation plan, business expansion, large scale investment project, as well as the joint investment with other

¹ According to the notification of the Capital Market Supervisory Board No. GorJor. 17/2551 concerning the determination of the definition in the notification about the issuance and offer to sell the security on 15 December 2018, the definition "person who may have conflict" is (1) Director or Management (2) major shareholder (3) person with supervising power (4) person with blood relation by marriage or the legal registration with the person in (1) (2) or (3), which are father, mother, married couple, siblings, child or the person who is married to the child (5) any juristic person that people in (1) (2) or (3) hold the share or have the supervising power or have interest in any way, regardless of directly or indirectly.

entrepreneur to the Company through the report of monthly performance and explain or deliver the supporting document of such case, in the case that the Company request.

5) Director and Management of the Subsidiaries and/or the Joint venture must submit the information or document related to the operation of the Company as requested and as appropriate.

6) Director and Management of the Subsidiaries and/or the Joint venture must explain or deliver the supporting document to the Company in the case that the Company found the significant issue.

7) Director, Management, Officers, employee or the assignee of the Subsidiaries and/or the Joint venture, as well as the spouse and minor child of the person must not use the internal information of the Company or the Subsidiaries and/or the Joint venture, both those obtained from the compliance with obligation in a way, which have or may have significant impact to the Company or the Subsidiaries or the Joint venture for benefit of oneself or other people, regardless of directly and indirectly and regardless of there is a return or not.

8) Director, Management or people who may have conflict of the Subsidiaries will be able to conduct the transaction with the Subsidiaries only when such transaction is approved by Sub-Committee and/or Board of Directors of the Company or the shareholders of the Subsidiaries and/or shareholders of the Company (as the case may be) according to the size of the transaction as calculated by using the criteria in the notification of the related transaction and the related criteria of Capital Market Supervisory Board and The Securities and Exchange Commission, mutatis mutandis. In this regard, except when the transaction is the trading agreement in the same manner that people should do with the contract party in general in the same situation, with the bargaining power that is free from the influence that the person is in the position of Director, Management or people who may have conflict (as the case may be) and is the trading agreement approved by the Board of Directors or possible according to criteria approved by the Board of Directors.

9) Director and Management of the Subsidiaries and/or the Joint venture must provide appropriate internal control that is suitable and concise enough for preventing the fraud that may occur to the Subsidiaries and/or the Joint venture. Apart from that the Subsidiaries and/or the Joint venture should have a distinct work system to show that the Subsidiaries and/or the Joint venture have an adequate system in information disclosure for the significant transaction according to the stipulated criteria consistently and reliably. Plus, there must be a channel for the Director and Management of the Company to be able to get the information of the Subsidiaries and/or the Joint venture for supervising the work performance and financial status, transaction between the Subsidiaries and/or the Joint venture and the Director and/or Management of the Subsidiaries and/or the Joint venture and the significant transaction of the Subsidiaries and/or the Joint venture efficiently. Apart from that, the Board of Directors must provide the Subsidiaries and/or the Joint venture the examination mechanism for such work system in the Subsidiaries and/or the Joint venture. The internal Auditor team and Independent Director of the Company must be able to access the data directly and there must be a report of such work system examination for the Audit Committee and the Board of Directors to ensure that the Subsidiaries and/or the Joint venture has complied with the work system efficiently and regularly.

In this regard, to comply with policy on supervision of the operation of the Subsidiaries and the Joint venture, the following cases, of the Subsidiaries must be approve by Board of Directors of the Company and/or Shareholders' meeting of the Company (as the case may be) before getting approval from Board of Directors or the Shareholders' meeting of the Subsidiaries (as the case may be).

- The subject that must be consider and approve from the Shareholders' meeting of the Company with the voting not fewer than three-fourth (3/4) of all votes of the shareholders attended meeting and has the right to vote:
 - (1) In case the Subsidiaries agree to do the transaction with the related person of ACE or the Subsidiaries or the transaction related to the acquisition or sale of the asset of the Subsidiaries. In this regard, it must be in the case that when calculating the size of the transaction that the Subsidiaries will conduct as compared to the size of ACE using the criteria of calculation as specified in the related announcement of Capital Market Supervisory Board and the notification of the Securities and Exchange Commission (as the case may be) to enforce, mutatis mutandis, it shall be in the criteria that the Shareholders' approval from meeting of ACE is required.
 - (2) Capital increase by issuing more share of the Subsidiaries and the share allocation, including the decrease of the registered capital and/or the paid up share of the Subsidiaries which is not comply with the original ratio of shareholding of the shareholders or the other operation in the same manner which make the ratio of shareholding of ACE and/or the use of voting right of ACE directly and indirectly in the Shareholders' meeting of the Subsidiaries, regardless in any stage decreased to lower than the ratio specified in the law enforced with the Subsidiaries, which make ACE lose the controlling power over such the Company. In this regard, it must be in the case that when calculating the size of the transaction as compared to the size of ACE, it is in the criteria that require the approval from Shareholders' meeting of ACE using the criteria of calculation of transaction size as specified in the relevant notification of Capital Market Supervisory Board and the notification of the Securities and Exchange Commission (as the case may be) to enforce, mutatis mutandis.
 - (3) The business close down of the Subsidiaries. In this regard, this shall be only when calculating the size of the business of the Subsidiaries to be closed own as compared to ACE using the criteria of calculation of transaction size as specified in the relevant notification of Capital Market Supervisory Board and the notification of the Securities and Exchange Commission (as the case may be) to enforce, mutatis mutandis, it is in the criteria that require the approval from Shareholders' meeting of ACE.
 - (4) Any other transaction that is not normal business transaction of the Subsidiaries and it is the transaction that has impact on the Subsidiaries significantly. In this regard, this shall be only when calculating the size of the business of the Subsidiaries to do the transaction as compared to ACE using the criteria of calculation of transaction size as specified in the relevant notification of Capital Market Supervisory Board and the notification of the Securities and Exchange Commission (as the case may be) to enforce, mutatis mutandis, it is in the criteria that require the approval from Shareholders' meeting of ACE.
 - (5) Amendment to the regulations of the Subsidiaries in the subject that may significantly affect the financial status and work performance of the Subsidiaries, including but not limited to, the amendment of regulations of the Subsidiaries that affect the right to vote of

the Company in the Board of Directors meeting of the Subsidiaries and/or Shareholders' meeting of the Subsidiaries, etc.

- The subject to be considered and approved by the Board of Directors' meeting
 - (1) Appointment or proposal of the name of the person to be the Director and Management in the Subsidiaries at least at the ratio of shareholding of ACE in the Subsidiaries. The Director and Management that ACE appoint or propose the name shall have the discretion to consider voting in the Board of Directors meeting of the Subsidiaries in the subject related to the administration in general and normal business operation of the Subsidiaries as the Director and Management seen appropriate for the maximum benefit of ACE and the Subsidiaries (as the case may be). In this regard, except for the subject that is determined to be considered and approved by the Shareholders' meeting of ACE.

In this regard, Director and Management of the Subsidiaries that is appointed must be the person who is listed in the Director and Management listing system of the Company issued the security (White List) and have the qualifications, roles, obligations and responsibility as specified by relevant law. Apart from that, there shall not have the characteristic that is not reliable according to the notification of the Capital Market Supervisory Board, concerning the characteristic that is not reliable of the Director and Management of the Subsidiaries.
 - (2) Consideration on annual dividend payment and interim dividend payment (if any) of the Subsidiaries, except when the case that the Subsidiaries pay dividend in total for the whole year not fewer than the amount specified in the total annual budget of each Subsidiary.
 - (3) The amendment of the regulations or the Subsidiaries, except for the following cases:
 1. Amendment of the regulations concerning the capital increase according to the ratio of shareholding which is in accordance with the annual budget of each Subsidiary and/or
 2. Amendment of the regulations in significant matter which must be approved by Shareholders' meeting of ACE
 - (4) Approval of annual budget of the Subsidiaries, unless specified in the manual of approving authority and operation of the Subsidiaries
 - (5) Appointment of the Auditor of the Subsidiaries especially for the case that the Auditor is not in a Full Member Audit office in the same network as the Auditor of ACE which is not complied with the policy on Auditor appointment of ACE, in which the Auditor of the Subsidiaries must be under the Audit office in the same network as the Auditor of ACE.
 - (6) Capital increase by issuing capital increase shares of the Subsidiaries and allocate the share and decrease the Registered Capital and/or paid up capital of the Subsidiaries which does not comply to the ratio of original shareholding of shareholders or the other operation in the same manner which make the ratio of shareholding of ACE and/or the use of voting right of ACE directly and indirectly in the Shareholders' meeting of the Subsidiaries, regardless in any stage decreased to lower more than 10 (ten) percent of the paid up capital of the Subsidiaries or the total vote of the Subsidiaries (as the case may be), except when it is already in the business plan

or annual budget of the Subsidiaries which granted approval from the Board of Directors of ACE.

- (7) The item in A to D of this clause are the significant transaction and when it is conducted, it will cause significant impact to the financial status and work performance of the Subsidiaries. Therefore, before the Board of Directors meeting of the Subsidiaries and Director who is appointed by ACE to hold the position in the Subsidiaries will vote on this matter, the Director must grant the consent from the Board of Directors of ACE about such matter first. In this regard, it must be in the case that when calculating the size of the transaction that the Subsidiaries will conduct as compared to the size of ACE using the criteria of calculation as specified in the related announcement of Capital Market Supervisory Board and the notification of the Securities and Exchange Commission (as the case may be) to enforce, mutatis mutandis, it shall be in the criteria that the Shareholders' approval from meeting of ACE is required for the following.

1. In case of the Subsidiaries agree to enter into the transaction with the related person of ACE or the Subsidiaries or the transaction related to acquisition or sale of the asset of the Subsidiaries, including but not limited to the following cases:
 - (1) The transfer or waive of the benefits as well as the waive of the right to claim available to the person who cause damage to the Subsidiaries
 - (2) Sale or transfer of the entire business or the significant part to other people
 - (3) Purchase or get the business transfer of the other Company to be owned by the Subsidiaries
 - (4) Entering into, amendment, or terminate the agreement related to the business rental of the Subsidiaries entirely or partially in the important part. Assigning other people to manage the business of the Subsidiaries or the merger of the Subsidiaries of other people with the objectives to share the profit and loss.
 - (5) Rent or rent out the business or asset of the Subsidiaries entirely or partially in the important part.
2. Borrowing, lending, giving credit, providing guarantee, entering into legal transaction that make the Subsidiaries have to bear more financial liability or providing financial assistance in other manners to other people and is not the normal transaction of the Subsidiaries, except for the borrowing between ACE and the Subsidiaries or between the Subsidiaries and other Subsidiaries of ACE.
3. Close down the business of the Subsidiaries
4. Other transaction that is not normal transaction of the Subsidiaries and are the transaction that affect the Subsidiaries significantly.

In this connection, the scope, authority and responsibility of the Director and Management of the Subsidiaries and/or the Joint venture above has been set out in the regulations of the Subsidiaries and effective from the day that the Board of Directors has resolution to approve both before and after the Company has registered in the Stock Exchange of Thailand, to the extent that the Company still keep the status as the registered Company in the Stock Exchange of Thailand and the Company still have the

controlling power in the Subsidiaries. In this regard, the definition of controlling power shall be in accordance with laws concerning stock and stock exchange.

Monitoring to ensure compliance with corporate governance policies and practices

Policy on the supervision of Internal Information

- 1) Give knowledge to Director and Management of the Company about the obligation to report the asset holding of oneself, spouse and child who is a minor to the Securities and Exchange Commission according to the guideline given in Section 59 and penalty section 275 of the Security and Security Exchange Act B.E. 1992 (as amended)
- 2) State that the Director and Management of the Company, as well as the spouse and the child who is a minor prepare and reveal the report of asset holding and report of the change of asset holding to the Company to the Securities and Exchange Commission according to Section 59 and penalty section 275 of the Security and Security Exchange Act B.E. 1992 (as amended) and deliver the copy of report to the Company Secretary on the same day as the report is submitted to the Securities and Exchange Commission.
- 3) The members of Sub-Committee, such as Executive Board, Nomination and Remuneration Committee, Management, Officers and employee of the Company, the Subsidiaries and/or the Joint venture that are acknowledge of the internal information must comply with the rule stated in Clause 4 strictly. The **“Internal information”** refers to the fact which is significant which affect or may affect the change of the asset price of the Company and the fact that has not been revealed to the public. In this regard, example of the event or fact that are considered as internal information are:
 - (A) The joint investment, merger or acquisition of the business
 - (B) The announcement to pay or not to pay the dividend or the announcement of profit or loss
 - (C) The change to the par value and stock dividend payment
 - (D) The accusation or loss of the important trading
 - (E) The launch of new product, important development about the resource, technology, product and market or the important finding about natural resource
 - (F) The change of the power to control or significant change in the Board of Directors and Management
 - (G) The call for divestment of asset
 - (H) The borrowing at the significant amount to the financial status and work performance
 - (I) The issuance of capital increase share at an important amount by offering to sell for general public
 - (J) Important legal dispute
 - (K) Purchasing or selling important asset
 - (L) Important change in investment payment
 - (M) Change of objectives of the Company
 - (N) Important dispute about labor, Sub-contractor, supplier of the Company
 - (O) Preparation of the proposal to purchase the security of other companies
 - (P) Change of policy and accounting
- 4) The Sub-Committee members such as Executive Board, Nomination and Remuneration Committee, Management, Officers and employee of the Company the Subsidiaries and/or the Joint venture who

are acknowledge of the internal information are prohibited from trading the stock of the Company during the following period.

1. From the day that the internal information is known until the date that the Company has disclose such information to the public, according to the guideline of the notification of the Stock Exchange of Thailand concerning guideline on the disclosure of the information of the listed Company on 30 April 1993, and in the period of 24 hours after the Company has revealed the internal information to the public
2. From the last day of each quarter or the last day of the accounting period of the Company (as the case may be) until the day that the Company reveal the financial statement for such accounting period of the Company to the public and in 24 hours period after the Company has revealed the financial statement for such accounting period of the Company to the public.

Apart from that, the person related to the internal information must not reveal such information to other people until the information is informed to the Stock Exchange of Thailand. In this regard, if there is any violation of the rules mentioned above, the Company will consider it as the disciplinary offense according to the work regulations of the Company and there will be a punishment as appropriate to the case, ranging from verbal warning, warning in writing, probation to termination of employment.

Comply with the Corporate Governance in other aspects

Corporate Governance principles that the company has complied

The Company has always realized and valued the importance of corporate governance practices, in 2022 the Company has complied with the following important corporate governance principles as followed

- (1) Promoting and facilitating the exercise of shareholders' rights by allowing shareholders to propose agenda for the 2023 Annual General Meeting of Shareholders of the Company in advance from 1 November 2022 until 16 January 2023
- (2) Equitable treatment of all shareholders by providing opportunities for shareholders to nominate qualified persons for consideration and appointment at the regular shareholders' meeting of the Company in 2023 as a director of the Company Advance from 1 November 2022 until 16 January 2023
- (3) Development of Company Directors and Executives in 2022, Company Directors and the management has participated in the training and seminars in courses organized by external institutions as follows.

- (1) Miss Chonticha Chitraporn Chairman of Audit Committee/Director/Independent Director,
Mrs. Patchanee Sutheevitanunt Chairman of the Nomination and Remuneration Committee/Director/Independent Director/Member of the Audit Committee
Mr. Nuekrak Baingern Director/Independent Director/Audit Committee/Nomination and Remuneration Committee

All of them attended the following seminar courses:

- Seminar on Accounting knowledge that AC should not miss by the SEC on 22/07/2022
- Seminar on Value of Audit by SEC on 2/12/2022

(2) Mr. Tanachai Bunditvorapoom Director/Member of Executive Committee/CEO attended the following seminar courses:

- Ethical Leadership Program (ELP) Training, Class 26/2022, Thai Institute of Directors Association
- Training on Subsidiary Governance Program (SGP), Class 1/2022, Thai Institute of Directors Association
- Risk Management Program for Corporate Leaders (RCL), Class 29/2022, Thai Institute of Directors Association

Corporate Governance principles has not been fully implemented.

The items that have not been fully implemented	Reason
Development of all Company Directors and Executives by promoting and facilitating the participation of seminars organized by external institutions.	From the situation of the epidemic of the Coronavirus 2019 (COVID-19) that still exists, although the overall situation of the epidemic has eased. However, the Company's directors and executives cannot fully participate in training and seminars organized by external institutes, except for training seminars via online media because the Company focus on the importance of safety and the risk of infection from the aforementioned epidemic then the executives had to attend seminars under such restrictions. Therefore, if the epidemic situation is better or there are other measures that make it safer, the Company will consider proceeding with the development of independent directors and audit committee members by promoting and facilitating participation. more training and seminars organized by external institutions.

8.2 Audit Committee Report

Audit Committee Report

The Audit Committee of Absolute Clean Energy Public Company Limited ("the Company" or "ACE") was appointed by the Board of Director. The Committee comprises independent directors who are qualified and have sufficient knowledge and experience to validate the Company's financial statements. They have complete qualifications in accordance with the rules and regulations of the Securities and Exchange Commission. There are 3 members of the Audit Committee:

- | | |
|----------------------------------|-----------------------------|
| 1. Ms. Chonticha Chitraporn | Chairman of Audit Committee |
| 2. Mr. Nuekrak Baingern | Member of Audit Committee |
| 3. Mrs. Patchanee Sutheevitanunt | Member of Audit Committee |

Mr. Somchai Chia-piyasakul acts as the secretary of the Audit Committee

The Audit Committee has performed its duties independently in the scope and responsibility assigned by the Board of Directors, as specified in the Audit Committee charter which is in line with the regulations of the Stock Exchange of Thailand. There is a review and encouragement for the Company to follow the principles of good corporate governance. The Company should conduct business with the principles of good governance, transparency, honesty and integrity. Management should give importance to responsibility to the environment, society and shareholders for stable and sustainable growth and development by taking into account the maximum benefit of the shareholders. In the year 2022, the Audit Committee held a total of 7 meetings with executives, related employees, internal auditor and the external auditor and the meeting with the Auditor and Internal Auditor without the Management Team 1 time. The essence of the Audit Committee's performance can be summarized as follows:

Review of Financial Statements

The Audit Committee has reviewed quarterly financial statements, the separate annual financial statements of the Company and consolidated financial statements including related party transactions. By meeting with the auditor and executives involved in the preparation of financial statements in order to make sure that financial statements have been prepared in accordance with legal requirements and the generally accepted accounting standards. There is an internal control system that is suitable for the preparation of accounting reports. There is sufficient and appropriate disclosure of financial information in all material areas and is beneficial to users of the financial statements.

Connected Transaction of the Company on a Quarterly and Annual basis

The Audit Committee has reviewed Connected Transactions on a quarterly and annually basis to ensure that the transactions are appropriate and reasonable and protects the Group's benefits as well as complying with the regulations of the Stock Exchange of Thailand and the Office of the Securities and Exchange Commission.

Review of Adequacy and Appropriateness of the internal control system

The Audit Committee has reviewed the sufficiency of the internal control system of the Company and subsidiaries by reviewing the audit report of the internal auditor and the auditor's report. There was no significant issue or errors. Businesses were conducted in accordance with the policy and the specified line of command. Management has

followed the recommendations, showing that the Company has appropriate internal control systems to conduct business. The Audit Committee believes the Company has an adequate internal control system suitable for the size of the business and the current condition of the Company. The system carefully monitors and oversees the Company's operations to protect the company and subsidiaries' assets from the misuse by directors, executives or employees or without authority. It also provides adequate control of connected transactions.

Supervision of the internal audit department

The Audit Committee has overseen the operations of the internal audit department by considering and approving the annual internal audit plan to ensure that the annual audit plan covers the Group's internal control system, and is consistent and suitable for different characteristics in each phase of the business operation. The Audit Committee has considered the results of internal audits and monitors to be in accordance with the annual internal audit plan of the internal audit department.

The Company's Good corporate governance operations

The Audit Committee has placed importance on the operations in accordance with the good corporate governance (CG Code 2017) of the company. The implementation of good corporate governance of the company is considered to be appropriate in terms of operations plans, social and environmental responsibility including sustainability policy. This is an operation to create value for both the Company's shareholders and all stakeholder groups, including disadvantaged people by promoting the well-being of local communities, societies and natural environments. The goals are to make those practices sustainable and complying with good governance, risk management by taking care of the interests of the stakeholders, employee and the environment, based on the ESG framework (Environment, Social, Government).

Consideration and propose the appointment of the Auditor for the year 2022

The Audit Committee has selected the auditors of the company by considering qualifications, independence of auditors, expertise, experience, performance, scope of inspection guidelines, including the appropriateness of compensation. The Audit Committee, therefore proposed to the Board of Directors meeting to request approval at the shareholders' meeting to appoint Mr. Krit Chatchawalwong, Certified Public Accountant No.5016 and/or Miss Sinsiri Tungsombat, Certified Public Accountant No.7352 and / or Mr. Vichien Gingmontri, Certified Public Accountant No.3977 from Pricewaterhouse Cooper ABAS Company Limited as the auditor of the Company for the year 2022. The auditors listed above is the auditors approved by the Securities and Exchange Commission and has experience, knowledge, and ability that are appropriate for the audit of the Group's financial statements

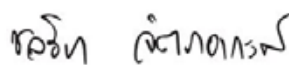
Consideration and giving opinions on various policies related to the authority and duties of the Audit Committee.

The Audit Committee has reviewed the Audit Committee Charter, the significant accounting policies of the Group, the accounting allowance policy and significant accounting estimates for the year 2023 to be consistent with current situations

Evaluation of the performance of the Audit Committee

The Audit Committee has evaluated the performance of the Audit Committee and each member of Audit Committee to ensure that the operations of the Audit Committee are carried out efficiently to support and promote good corporate governance of the company. From the evaluation, the Audit Committee has complete qualifications and perform duties efficiently and in accordance with the scope of duties and responsibilities specified in the audit committee charter. In summary, the Audit Committee has performed according to the duties and responsibilities assigned by the Board of Directors and as specified in the charter of the audit committee by using knowledge and ability with caution, prudence and sufficient independence as well as giving opinions and recommendations creatively for the benefit of all stakeholders. The Audit Committee is of the opinion that the Board of Directors, executives, and employees at various levels of the Company are committed to performing their duties in order to achieve the Company's and their professional goals efficiently and effectively. The Company has an appropriate risk management system, good corporate governance policy as well as suitable, concise and sufficient internal control systems.

From the performance of duties of the Audit Committee, in the year 2022 as reported above, it is believed that the Company prepares financial reports that are accurate, complete, reliable, and in accordance with generally accepted accounting standards. There are a risk management system and internal control system that are appropriate for the nature of the business. The group of companies, has good corporate governance that takes into account the responsibility to the environment, society, and shareholders with the goal of creating stable and sustainable growth.



(Ms. Chonticha Chitraporn)

Chairman of Audit Committee





9. Internal Control and Connected Transaction

9.1 Internal Control

Company's Internal Control System

The Group recognizes and places high importance to the Management of good Internal Control Systems, to support the operations of the Group in an efficient manner, with adequate and comprehensive Internal Control Systems in all areas, to comply with relevant laws, rules, and regulations. The Board of Directors has provided an effective and sufficient Check & Balance Mechanism to protect, to supervise, and to maintain the Group's assets, by establishing a hierarchy of authority, delegation of authorities, duties, And Responsibilities, to provide management at the executive level and staff levels with appropriate checks and balances. A written operational procedure will be established, and an independent Internal audit department will be in place to review the operations of the units in the group according to the established regulations, and will report directly to the Audit Committee. In addition, the Company and the subsidiaries have appropriate and concise Internal Controls and Internal audit Systems, to prevent fraud that may occur to the Group, with a clear System that can be inspected, and is consistent with guidelines of the Stock Exchange of Thailand.

At the Board of Directors Meeting No. 1/2022, held on February 28, 2022, with all members of the Audit Committee participating, the Board of Directors had evaluated the Internal Control System by querying information from the Company's management, with referencing from Internal Control audit reports, and from follow-up reports of Internal Control audit, that were audited and prepared by P&L Interactive Audit Company Limited, and P&L IT Audit Company Limited, (collectively referred to as "P&L"). The Board of Directors had considered and evaluated the Internal Control System of the Group in 5 areas, according to the Committee of Sponsoring Organizations of the Tread-way Commission (COSO), which had revised the framework in May 2013, with adjustments to be suitable for Thai listed companies. The main questions are still divided into 5 parts, which are the same as the previous COSO guidelines, namely 1) the Controlled environment, 2) the risk assessment, 3) the Control measures, 4) the information and communication Systems, and 5) the reporting and tracking System. In this regard, each part has been expanded into 17 sub-principles, consisting of the following items;

1) Control Environment

The Company encourages and promotes a good Internal Control environment, by defining the goals and directions of its business, specifying corporate governance, code of conduct, and operational manuals in writing, which have been communicated to all levels of employees to be informed and to strictly comply. Penalty will be imposed if there are any violations. There will be a clear organizational structure, and a check and balance mechanism. There is an independent Internal audit department that reports directly to the Audit Committee, overseeing and reviewing support operations, creating a good Internal Control environment, covering the following principles;

- 1.1 The organization demonstrates adherence to the values of integrity and ethics.
- 1.2 The Board of Directors are independent from Management in providing oversight and the development of Internal Control.

- 1.3 Management will provide a reporting structure, assigning appropriate authority, and accountability, for the organization to achieve its objectives, under the oversight of the board.
- 1.4 The organization demonstrates a commitment to motivation, development, and retention of knowledgeable personnel.
- 1.5 The organization requires the personnel to perform duties with the responsibilities in Internal Control, to achieve the objectives of the organization.

2) Risk Assessment

The Company has set up a risk management System, via the establishment of Risk Management Working Group, that will be responsible for setting the policy framework and risk management guidelines, in accordance with the COSO guidelines, with the responsibility to determining guidelines and measures to limit risks, in order to limit any damages that may occur, and with duties to promote the implementation of risk management policies throughout the organization to cover the following principles;

- 2.1 The organization shall specify objectives clearly and adequately, in order to identify and to assess risks related to the achieving the objectives of the organization.
- 2.2 The organization will identify and analyze all types of risks that may impact the achievement of the organizational objectives in a comprehensive way.
- 2.3 The organization will consider the likelihood of corruption in assessing the risk of achieving the organization's objectives.
- 2.4 The organization will be able to identify and to assess any changes that may impact the Internal Control System.

3) Control Activities

The Company has established regulations and framework for approval of transactions that are clear and in writing, with proper segregation of duties and mutual review. The Company has specified the conditions for related transactions as connected transactions, or as transactions that may have conflicts of interest, by having the Internal audit department conduct an investigation, and will monitor compliance with the law and Regulations, which cover the following principles;

- 3.1 The organization will have Control measures to reduce the risk of not achieving the objectives at an acceptable level.
- 3.2 The organization will choose and develop general Control with technology Systems, to support the achievement of objectives.
- 3.3 The organization will organize Control activities through policies, which define expectations and procedures, so that those policies can be implemented.

4) Information and Communication

The Company has established an ongoing information System, and has provided effective means of communication, to ensure the sufficiency of important information to support decision-making of the Board of Directors and the Executives. In this regard, documents and data will be collected, and will determine the appropriate storage period of time, to comply with the legal requirements. The quarterly and annual financial statements are

reviewed and audited by the Company's auditors. Sufficient and timely information is disclosed for the best interest of shareholders, investors, and users of financial statements. There will be Internal and external communication systems, so that the personnel will be informed of all the information used for operations, which covers the following principles;

- 4.1 The organization will have relevant and quality information, in order to support Internal Control in the course of its operations.
- 4.2 The organization will communicate information within the organization, including objectives and responsibilities for Internal Control, which are necessary to support the Internal Control to be carried out as planned.
- 4.3 The organization will communicate with external agencies, regarding issues that may affect Internal Control.

5) Monitoring Activities

The Company will monitor the performance against the business goals (KPI), and will report the results as well as analyze the cause of the variances in order to fix the solutions within the appropriate time to the management and the board of directors. For the Internal Control System, the Company has specified that the Internal audit department is responsible for the audit, and will report to the audit committee regularly at an appropriate time, which will cover the following principles;

- 5.1 The organization will monitor and evaluate the Internal Control, to ensure that the Internal Control is complete and appropriate.
- 5.2 The organization will assess and communicate timely deficiencies in Internal Control to responsible parties, including senior management and the board as appropriate.

The Board of Directors is of the opinion that, the Group's Internal Control and Internal audit Systems are sufficient and appropriate. The Group has provided sufficient personnel, which can implement the System efficiently, with Internal Control Systems, in monitoring and overseeing the operations of the group, to protect the assets of the group from the Directors, or the Executives, which may be misused, or used without authorization, including transactions with persons whom may have conflicts, and connected persons adequately. In addition, the Board of Directors will approve the evaluation form for the adequacy of the Company's Internal Control System, which is prepared in accordance with the SEC's assessment.

Appointment of Chief of Internal Audit

The Company has hired P&L as an Internal auditor, by appointing Ms. Wannawimon Jongsuriyaphat, to be Chief of Internal Audit. The Audit Committee is of the opinion that, the Chief of Internal Audit has appropriate educational background, experiences, and trainings, with a great understanding of the Company's activities and the operations of The Group, and is of the opinion that the Chief of Internal Audit is suitable to perform these duties appropriately and adequately. In this regard, consideration, approval, appointment, removal, and transfer of the Chief of Internal Audit of the Company, must obtain approval from the Audit Committee.

Inspection & Review of Internal Control System & Risk Management

The Company has hired P&L in order to inspect the group's Internal Control Systems, by inspecting the Internal Control Systems, IT General Control, and general Controls for supervising the operations to ensure compliance with Law since 2017 to present, which has been reported to the audit committee, at the meeting of the audit committee in 2018 2019 2020 2021 and 2022. The Internal Control System audits are categorized into 7 main Systems as follows;

1. Revenue Cycle System
2. Expense Cycle System
3. Fixed Asset Management System
4. Human Resource Management System
5. Inventory Management System
6. Risk Management
7. The Internal Control System Sufficiency Assessment (COSO)

As for the operations relating to the Internal Control Systems of the group companies, the Internal auditors will examine, and assess the adequacy of the Internal Control Systems of the group companies, circulating in 7 major work Systems (87 sub-Systems), Which can be summarized as follows;

Main Operation System	Operational Sub-System
1. Revenue Cycle System	<ol style="list-style-type: none"> 1. Policies, regulations, and procedures regarding revenue cycle 2. Authority, authorization, and signature samples 3. Preparation of the Business Plan 4. Customer registration 5. Setting service fees, contracts, and agreements 6. Recording of receivables, and receiving payments 7. Control of proof of bank balances 8. Check-On-Hand Control 9. Analyzing aging of receivables, and setting up allowance for doubtful accounts 10. Sales tax 11. Withholding tax 12. Defining the right to access information System information
2. Expense Cycle System	<ol style="list-style-type: none"> 1. Policies, regulations, and operating procedures, regarding expense cycle Systems 2. Authority, authorization, and signature samples 3. Control of expenditure budgets 4. Selection process, new seller registration, and annual evaluation of same sellers 5. Purchase request process (PR) 6. Procurement process 7. Procurement contract process 8. Products receiving process 9. Record of accounts payable 10. Payment of debt

Main Operation System	Operational Sub-System
	<ul style="list-style-type: none"> 11. Check payment Control 12. Paying aging analysis (AP Aging) 13. Controlling petty cash 14. Control of advance payment 15. Proof of bank deposit amount (Bank Reconciliation) 16. Purchase tax Control 17. Withholding tax 18. Assigning the authorization to access the information System
3. Fixed Asset Management System	<ul style="list-style-type: none"> 1. Establishing policies, regulations, and operational procedures regarding fixed asset management processes 2. Establishing the scope of authority and knowledge of the operation 3. Control of authority, approval authority, and signature samples 4. Control of the purchase process for fixed assets 5. Control of fixed asset registration 6. Controlling of depreciation calculation steps 7. Control of lease assets 8. Control of sales, discontinuance, donation of fixed assets, and removal from fixed asset Control accounts 9. Control of the procedure for counting fixed assets 10. Control of procedures for taking assets out of the Company 11. Control of asset transfer procedures between individuals or departments 12. Control of machine repair and maintenance procedures 13. Control of insurance procedures for fixed assets 14. Control the process of determining the right to access the information System
4. Human Resource Management System	<ul style="list-style-type: none"> 1. Policies, regulations, and procedures regarding human resource management 2. Organization chart, organization structure, scope of authority, knowledge and understanding in operations, and personnel planning 3. Authorization, approval authority, and sample signatures 4. Recruitment and employment 5. Compensation Control 6. Benefits Control 7. Salary Control 8. Operational Control 9. Evaluation 10. Personnel development 11. Termination and resignation 12. Defining the authorization to access the information System 13. Others

Main Operation System	Operational Sub-System
5. Inventory Management System	1. Policies, regulations, and procedures regarding warehouse management 2. Authorization, approval authority, and samples of signatures 3. Procedure for receiving products 4. Product distribution process 5. Counting of inventories 6. Control and overseeing of warehouse safety 7. Compliance with relevant laws 8. Defining the right to access the information System
6. Risk Management	6.1 Enterprise Risk Management Policy 6.2 Risk Management Structure and Responsibilities <ol style="list-style-type: none"> 1) Risk Management Structure 2) Roles and Responsibilities in Risk Management 3) Risk Management Committee 6.3 Organizational risk management process <ol style="list-style-type: none"> 1) Objective Setting 2) Event Identification 3) Risk Assessment 4) Risk Response 6.4 Control Activities 6.5 Monitoring Activities
7. The Internal Control System Sufficiency Assessment (COSO)	7.1 The organization demonstrates its commitment to values of integrity and ethics 7.2 The Committee is independent from the management and responsible for oversight and development of internal control operations 7.3 Management has established the reporting structure, determining the appropriate authority and responsibility for the organization to achieve its objectives, under the supervision of the Board of Directors 7.4 The organization demonstrates a commitment to motivating developing and maintain competent personnel 7.5 The organization requires personnel to have duties and responsibilities in internal control to achieve the objectives of the organization <u>Risk Assessment</u> 7.6 The organization has clearly defined objectives to be able to identify and assess various risks related to the achievement of organizational objectives 7.7 The organization can identify and analyze all types of risks that may affect the achievement of objectives comprehensively throughout the organization 7.8 The organization has considered the potential for fraud in assessing the risks to achieve objectives of the organization 7.9 The organization can identify and assess changes that may affect its internal control system <u>Control Activities</u> 7.10 The organization has control measures that could reduce the risk of failure to achieve the organization's objectives to an acceptable level.

Main Operation System	Operational Sub-System
	<p>7.11 The organization selects and develops general control activities with a technological system to support the achievement of objectives</p> <p>7.12 The organization provides the control activities through policy which defines the expectations and procedures that the policy can be practical applied</p> <p><u>Information & Communication</u></p> <p>7.13 The organization has relevant and qualified information to support the internal control to be able to practice as specified</p> <p>7.14 The organization communicates within organization, including the objectives and responsibilities of internal control necessary to support the internal control function</p> <p>7.15 The organization communicates with external agencies about issues that may affect internal control</p> <p><u>Monitoring Activities</u></p> <p>7.16 The organization monitors and evaluations the internal control activities to ensure that the internal control continues to operate in a complete and appropriate manner</p> <p>7.17 The organization assesses and communicates deficiencies in internal control in a timely manner to those responsible, including senior management and the board of directors as appropriate.</p>

For operations regarding Internal Control Systems under the head of IT General Control, P&L had audited and evaluated the adequacy of the Internal Control System, in 14 areas of general Control in information technology, which can be summarized as follows;

Main Operation System	Operational Sub-System
1. General Control in information technology	<p>1. Information security policy</p> <p>2. Information security structure</p> <p>3. Human resource security</p> <p>4. Property management</p> <p>5. Access Control</p> <p>6. Data encryption</p> <p>7. Physical and environmental security</p> <p>8. Security and security for operation</p> <p>9. Security for data communication</p> <p>10. Procurement, development, and System maintenance</p> <p>11. Relations with external service providers</p> <p>12. Management of information security incidents</p> <p>13. Information management to create business continuity</p> <p>14. Consistency</p>

For operations regarding Internal Control Systems, general Control and oversight of operations in accordance with the law, P&L had conducted an audit, and evaluated the adequacy of the Internal Control System, regarding the 9 areas of general Control for regulatory compliance, which can be summarized as follows;

Main Operation System	Operational Sub-System
1. General Control in overseeing operations to ensure compliance with the law	1.1 Policies, regulations, and procedures of the Legal Department 1.2 Guidelines for overseeing operations in accordance with regulations, procedures, and relevant laws 1.3 Organization structure of the Legal Department, and related departments 1.4 Scope and authority of the legal department, and related parties 1.5 Important laws relating to power plants 1.6 Compliance with the Public Limited Companies Act 1992 1.7 Compliance with the regulations of the Stock Exchange of Thailand 1.8 Preparation of a contract to Control contracts, and related important documents 1.9 The environment, safety, data storage, and important documents

In an overall review of the Internal Control System by P&L, it can be concluded that the Group has complied with the established Internal Control System. The Group has sufficient, significant Internal Control, which will enable the Group to achieve the following objectives:

1. To increase the efficiency and effectiveness of the group operations.
2. To increase the confidence of senior management, that the Group has reliable information Systems, and there will be no significant errors.
3. To ensure that the group companies have sufficient Internal Control Systems, and that employees work in accordance with the specified Internal Control Systems.

Observation from the Auditor

PricewaterhouseCoopers ABAS Company Limited ("PwC"), Auditor, with permission obtained from the group of companies, has no observations regarding Internal Control and accounting Systems, for the fiscal year ending 31 December 2022.

9.2 Connected Transactions

Companies / Related Persons

Company	Nature of Business	Relationship Category
Global Wood Chip Company Limited ("GWC")	Production and distribution of wood chips, logs, and bark	GWC is a company under common control with the Group of Companies.
Chaiyo Supply Chain Company Limited ("SSC")	Production and distribution of wood chips, logs, and bark	SSC is a company under common control with the Group of Companies. Mr. Tanavijit Ankapipatchai is a Joint Director
Sri Ban Phai Company Limited ("SBP")	Production and distribution of wood chips, logs, and bark	SBP is a company under common control with the Group of Companies.
Global Wood Chip Trading Company Limited ("GWT")	Production and distribution of wood chips, logs, and bark	GWT is a company under common control with the Group of Companies.

Company	Nature of Business	Relationship Category
Agro Energy Supply Company Limited ("AES")	Manufacturing and distributing fuel chips	AES is a company under control of the Group
Siam Agro Industry Products Trading Company Limited ("SAIPT")	Timber distribution business	SAIPT is a company under common control with the Group of Companies.
Advance Alliance Logistics Company Limited ("AAL")	Freight business	AAL is a company under common control with the Group of Companies.
Nam Phong Smile Company Limited ("NPS")	Production and distribution of tap water and industrial raw water	NPS is a company under common control with the Group of Companies.
Advance Utility Company Limited ("AUT"), (Former: Boon Bandal Rung Ruang Company Limited ("BBR"))	Production and distribution of tap water and industrial raw water	AUT is a company under common control with the Group of Companies.
Advance Asian Company Limited ("AAS")	Agricultural seedling production and agricultural seedlings business	AAS is a company under common control with the Group of Companies.
Advance Energy Development Company Limited ("AED")	Engineering service business, renovation service, repair and maintenance of factory buildings	AED is a company under common control with the Group of Companies.
Ascender Limited ("ASD")	Machinery Distribution Business	ASD is a company under common control with the Group of Companies.
Goodwill Innovation and Engineering Company Limited ("GIE")	Construction Business	GIE is a company under common control with the Group of Companies.
AED Fabrication Company Limited ("AEDF")	Metal structure manufacturing business for construction and industrial work, manufacturing machinery, equipment, and parts	AEDF is a company under common control with the Group of Companies.
Advance Asia Fiber Company Limited ("AAF")	Manufacture of solid fiber-board	AAF is a company under common control with the Group of Companies.
Triple A Board Company Limited ("TAB")	Manufacture of plywood and veneer	TAB is a company under common control with the Group of Companies. Mr. Pornmet Songmetta, TAB Director, and Company's Director and Major Shareholder
Advance Professional Training Company Limited ("APT")	Training and services business	APT is a company under common control with the Group of Companies.
CSR & GRM Management Company Limited ("CSRGRM")	Management consultancy services business	CSRGRM is a company under common control with the Group of Companies.
Chaiyo Smile Company Limited ("SS")	Real estate development business, for sale or rent	SS is a company under common control with the Group of Companies.

Company	Nature of Business	Relationship Category
A.I. and Robotics Ventures Company Limited ("AIR")	Integrated research and development business focusing on engineering and technology	AIR is a company under common control with the Group of Companies.
A.E.D. Service Company Limited ("AEDS")	Manufacture of thin sheets and wooden products	AEDS is a company under common control with the Group of Companies.
Eco Green Tree Company Limited ("EGT")	Perennial planting business	EGT is a company under common control with the Group of Companies.
Radius Company Limited ("RDI")	Software business	RDI is a company under common control with the Group of Companies.
Mr. Wirachai Songmetta	-	ACE major shareholder in the proportion of 22.65% of paid-up registered capital
Mr. Natt Songmetta	-	ACE major shareholder in the proportion of 15.67% of paid-up registered capital
Mr. Teerawut Songmetta	-	ACE Director and major shareholder in the proportion of 18.13 % of paid-up registered capital
Mr. Pornmett Songmetta	-	ACE Director and major shareholder in the proportion of 20.73% of paid-up registered capital
Ms. Jiratha Songmetta	-	Chairman of the Executive Committee, Director of the Board, and Director of the Nomination and Remuneration Committee
Mr. Tanavijit Ankapipatchai	-	Executive Management, Director, and Executive Director
Miss Jintana Songmetta	-	A close relative of Songmetta Group, ACE Major Shareholder

(1) The Raw Materials Fuel Purchases of Subsidiary

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
Purchase of raw materials & transportation costs for biomass fuels			1. Procurement of Biomass Fuel Raw Materials The aforementioned subsidiaries will be able to purchase all types of biomass fuels with other non-related fuel suppliers, including the minimum delivery amount, or minimum calorific value per year, in order to control the quality of fuels. The subsidiaries that operate biomass power plants purchase biomass fuels, from related companies with prices comparable to the market price. Other types of fuels such as wood chips, logs, sawdust, wood dust, plywood, waste wood, and energy plants, are by-products from the production process and the high calorific value, which the factories of the companies involved are located in the vicinity of Power plants, power plants of the subsidiaries have therefore purchased these fuels to be used to generate electricity.	The Audit Committee's opinion This transaction is necessary and appropriate, since it is a normal business transaction of the Group, this transaction will be a transaction with general trading conditions, and fuel will be an important raw material for power generation, while the purchase price is set to not be higher than the market price, which is a reasonable price.
GWC	95,421	168,589		
SAIPT	362	-		
AAF	192	-		
TAB	958	-		
AES	537,229	508,924		
SSC	22,509	44,000		
GWT	9,797	20,099		
SBP	<u>12,832</u>	<u>14,114</u>		
Total	<u>679,300</u>	<u>755,726</u>		
Account Payable				
GWC	6,162	7,749		
GWT	541	640		

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
SSC	1,118	1,405	(2) <u>Transportation Procurement of Fuel Raw Materials</u> The subsidiaries operating the Biomass Power Plant business, hiring related companies such as GWC, SSC, GWT and SBP will transport the fuel purchased from third parties to the power plant. The transportation fee will be charged at a price close to the market price. As the said related company has its own transportation and truck business, it is ready to provide service and has expertise in Power Plant routes. Fuel transportation costs will depend on the fuel type and distance.	
SBP	884	293		
AES	<u>5,354</u>	<u>5,116</u>		
Total	<u>14,059</u>	<u>15,203</u>		

(2) The subsidiaries bought water for usage in Power Plant operations and management

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
Purchase of water for use in operations of Power Plant			ALCP subsidiary purchased raw water from NPS for usage in the electricity generation process of the ALCP3 waste Power Plant project. Since the project area is not enough to dig a pond, ALCP has to buy raw water from NPS by entering into a long-term raw water purchase agreement where the raw water contract price is close to the market price.	The Audit Committee's opinion This transaction is necessary and appropriate, since it is necessary to produce electricity, and related companies will be able to supply water to power plants in times of shortage. In addition, the water rates purchased from related companies are close to or cheaper than the market price and is a transaction with general trade conditions.
NPS (ALCP3)	2,954	2,424		
AUT (AAPP2)	<u>2,333</u>	<u>-</u>		
Total	<u>5,287</u>	<u>2,424</u>		
Accounts Payable NPS (ALCP3)	252	296	In addition to the said transaction, AAPP purchased raw water, industrial water (RO water), and tap water, from AUT, a related company. Most raw water purchases are temporary items, during which the water in the Power Plant ponds cannot be used. The Company has terminated the contract with AUT since October 2021 because ABP's subsidiary has entered into a transaction to purchase pond from AUT.	

(3) The subsidiary procures construction and installation services for machinery, construction contracting, repair and maintenance of power plants, and purchase of fixed assets.

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
Procurement and installation of machinery under machinery installation agreement (EPC)			AED is an expert in procurement, installation, and testing of equipment and machinery for power plants, with experience in building power plants of the group from the outset, including ACP1, ACP2, ALCP1, ALCP2, ALCP3. AAPP1, AAPP2, AAP1, and ABA1. In addition, AED is well-equipped with personnel and equipment, and has the knowledge and capability to build power plants in the form specified by the Group, thus providing the ability to use fuel efficiently. In 2021, ACP4 and ALCP4 had payment for services for procurement and installation of machinery under EPC contracts to AED and ASD according to the progress of the work.	The Audit Committee's opinion The transaction is reasonable because AED and ASD have experience in the construction of power plants. In addition, the service fee for the machinery installation contract of AED and ASD is comparable to the market price, when compared with 3 bidding companies. The company has carried out all the steps of the new investment project that has been approved by the Board of Directors meeting.
AED ASD AEDF Total	148,531 46,069 58,879 <u>253,479</u>	181,469 - - <u>181,469</u>		
Retention Deposit AED - Khlong Khlung Power Plant Project	31,650	-		
Procurement and installation of machinery under machinery installation agreement (EPC)			GIE is the civil construction builder for Khlong Khlung Power Plant Project. Considering that GIE is an expert in constructing many power plants for the Group. In 2020, ACP4 paid for the construction of the power plant under the power plant construction contract to GIE for the ACP4 power plant project. In 2022, BPP hired for the construction of SPP Khlong Khlung Power Plant Project (BPP3) under GIE, AED and AEDS contracts.	The Audit Committee's opinion This transaction is reasonable, since GIE has experience in Power Plant construction. In addition, the service fee under the construction contract of GIE is a price that is comparable to the market price, when compared by bidding from 3 operators. In addition, the company has complied the investment procedures, which have been approved by the Board of Directors in its entirety.
GIE AEDS Total	- - =	98,461 34,077 <u>132,538</u>		
Purchase of fixed assets			The Company has a list of assets for machinery and spare parts for 3 types of work: Fabricated Duct, Fabricated Structure, and Fabricated Equipment from AEDF for use in power plant maintenance and renovation work for Every project on an annual basis. And its subsidiaries, ALCP, BPP, and ACES have entered into a project feasibility study agreement with CSRGRM. In addition, GIE is a power plant contractor and has tools and equipment ready to work. Experienced in land improvement work and can deliver the work within the specified time. The subsidiary therefore leases heavy machinery for land improvement to prepare the area for the	The Audit Committee's opinion The said asset price is reasonable, as AED and AEDF have the potential to procure tools and equipment at a cheaper price than buying from a third party, benefit the company. Advance payment to AEDF, in order to produce machinery and equipment in the manner specified by the company at the rate of 30% is a reasonable rate, as it is close to the rate that the company pays advance to external companies,
AEDF AED CSRGRM GWC SBP SSC GWT GIE EGT ACIP and Miss Jintana Songmetta	2,431 270 36,497 239 40 38 6 282,741 - 117,472	1,001 - 13,627 - - - - 83,488 5,570 -		

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
AUT Mr. Terawut Songmetta	190,179	-	construction of the ACP4, ALCP6 power plant project and the Phen waste landfill project. For the year 2021, NCE has entered into a land purchase transaction with ACIP and Ms. Jintana Songmetta to be used as the location of the Chiang Wang Community Waste Power Plant Project. ABP and its subsidiary entered into a purchase transaction of 28 plots of land and buildings, total area of 235-3-46 rai with AUT and Mr. Teerawut Songmetta to use as a construction site for a community solid waste management project, Waste to Energy (WTE) closed system. For the year 2022, BBTF has hired EGT to dig wells and plant trees.	according to the market price with general commercial conditions. In addition, the purchase of other assets, such as containers, hardboard sheets, and automobiles, is reasonably priced that is comparable to the market price. The price of the land purchase transaction with ACIP and Ms. Jintana Songmetta and the land purchase transaction with AUT and Mr. Teerawut Songmetta are reasonable because the said price is comparable to the average land appraisal price from 2 independent appraisers. It has been approved by the SEC. Therefore, it can be considered that the transaction is reasonable and beneficial to the group of companies.
Total	<u>629,913</u>	<u>103,686</u>		
Fixed assets payable				
AEDF	1,547	1,322		
AED	-	-	The Group has a purchase transaction of intangible assets in the type of ERP system from APT to be used as an information system for collecting data of APT. In addition, APT is a service provider to install ERP systems and have tools and equipment promptly to work and can deliver the service within the specified time. The subsidiary therefore hired APT to install the system for the group of companies. For the year 2022, there was the payment to AIR for services to prepare a simulator system for the operation of the power plant to increase the efficiency of the machine.	The Audit Committee's opinion The transaction is reasonable, because APT and AIR have the potential to provide equipment at a lower cost than other third parties, benefit to the company. Therefore, it can be considered that transaction is reasonable and beneficial to the Group of Companies.
CSRGRM	<u>14,162</u>	<u>6,374</u>		
Total	<u>15,709</u>	<u>7,595</u>		
Advance Payment for purchase Assets and Repair Costs				
AEDF	45	-	A subsidiary company, ACE SOLAR hired AED to build and install a solar power generation system for distribute electricity to the private person and another related company, which is Advance Asia Fiber Company Limited (AAF), in which ACE SOLAR has entered into a power purchase agreement as a seller with these two companies. The Group Company considers that AED has knowledge, capability and experience in the construction and installation of biomass power plant machinery of the Company's group. Which has the same electrical connection model as a solar power plant. In addition, AED offers a lower price than other contractors as well as offering a 2-year warranty.	The Audit Committee's opinion The transaction is reasonable, as AED has experience in power plant construction and the service fee according to the contract for the installation of solar rooftop systems and equipment is lower than the service fee of other contractors, with all conditions according to the requirements of ACE SOLAR
CSRGRM	<u>6,274</u>	<u>14,269</u>		
Total	<u>6,319</u>	<u>14,269</u>		
Purchase Transaction of Intangible Assets				
APT	2,187	2,977	Retention Deposit	
AIR	-	<u>5,762</u>		
Total	<u>2,187</u>	<u>8,739</u>		
Installation Expense of solar rooftop systems and equipment			AED	-
- Solar Rooftop	-	-		
Retention Deposit			AED	-
- Solar Rooftop	227	-		

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
Purchase spare parts			Subsidiaries hire AEDF to manufacture machinery and equipment because such company has expertise in manufacturing machinery and equipment according to the specified requirements, such as fabrication duct work, fabrication structure, and fabrication equipment for use in Power plant maintenance and improvement work for every project	The Audit Committee's opinion This transaction is a normal business transaction, and occurs as necessary in the Group's business operations, with most transaction prices being lower than the prices compared to third parties. Therefore, it is considered that the transaction the said transaction is reasonable and beneficial to the Group.
AEDF	63,311	80,390		
GWT	97	-		
GWC	132	-		
SSC	63	340		
AED	-	52		
Total	<u>63,603</u>	<u>80,797</u>		
Advance payment for the purchase of spare parts				
AEDF	2,903	1,913		
Accounts Payable - Purchase of spare parts				
AEDF	48	15		

(4) The subsidiary procures other services.

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
Fuel weighing service fee			The subsidiaries, ACP, AAPP, and AAP, employ GWC to weigh various fuels for use as feedstock for power generation. The projects under this transaction (ACP1, ACP2, AAPP1, AAPP2 and AAP1) are projects with GWC located next to the power plants. which can be compared with the market price	The Audit Committee's opinion This transaction is supporting the normal business of the Group of the Company and occur according to the necessity of business operations This was because it was the company's managerial decision not to invest in fixed assets but to employ weighing services from GWC, which already has scales and a plant located next to the power plant. general business and comparable to third party rates Therefore, it can be considered that the transaction is reasonable and beneficial to the Group of Companies.
GWC	2,619	2,628		
Payable for fuel weighing service				
GWC	210	236		
Transportation expense of machinery, equipment			Subsidiaries hired GWT SSC GWC and SBP to transport machinery and equipment since those companies are also engaged in transportation business and have a service-vehicles ready to serve with the group of companies as well as having expertise in routes due to the regular	The Audit Committee's opinion The transaction is supporting normal business of the group of companies and occurs as necessary for business operations, with general trading
GWT	167	324		
SSC	189	-		
GWC	1,637	1,733		
SBP	17	-		
Total	<u>2,010</u>	<u>2,057</u>		

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
Payable – Transportation Expenses			transportation of fuel to power plants while the shipping cost is comparable to that of outsiders.	conditions. The transportation service fee of the related company is also cheaper than the service fee charged by a third party. Therefore, it can be considered that the transaction is reasonable and beneficial to the Group of Companies.
GWT	19	-		
SSC	2	-		
GWC	<u>16</u>	-		
Total	<u>37</u>	<u>15</u>		
Service fee for HR information system RDI	-	2,209	The subsidiary hires RDI for its human resource information system, HRIS system. Such company operates the software business with service charges per user in the system which can be comparable to the market price.	The Audit Committee's opinion The transaction is supporting normal business of the group of companies and occurs as necessary for business operations, with general trading conditions. The transportation service fee of the related company is also cheaper than the service fee charged by a third party. Therefore, it can be considered that the transaction is reasonable and beneficial to the Group of Companies.

5) The Company and subsidiaries have leased assets for usage in the operations.

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
Office building rental and utility fees			The Group will enter into office building lease agreements, various utility services agreements and the use of office equipment from AED 1) ITF Building, 7th floor, with a total rental area of approximately 652 square meters. ITF Building is located on Silom Road, near the Skytrain station, which is a suitable location for the office of the group company. The rental period is from 1 February 2019 to 31 January 2022. There will be a condition to extend the lease for 3 years each time if there is no party not wanting to renew the contract, and there will be a new rental rate equal to the last year rental. which is comparable to third parties. The lease agreement has been canceled during the year 2020. 2) Khlong San office building, located on the 2nd floor, with a total rental area of approximately 150 square meters. The objective is to use as an additional office building of the Group. In this regard, the rental period will be from 1 August 2018 to 31 July 2021. There is a condition to	The Audit Committee's opinion The transaction is supporting normal business of the group of companies and occurs as necessary for business operations, with general trading conditions. The transportation service fee of the related company is also cheaper than the service fee charged by a third party. Therefore, it can be considered that the transaction is reasonable and beneficial to the Group of Companies.
AED	804	1,028		
TAB	-	<u>85</u>		
Total	<u>804</u>	<u>1,113</u>		

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
Rental deposit TAB	-	26	extend the lease for 3 years each time, if none says that they do not wish to renew the contract, and will set a new rental rate equal to the last year rental. The rental rates and utility fee (eg water, electricity) which are comparable to the third party. The Subsidiary has entered into an office building rental agreement and services from TAB, located in the office building, No. 229 Moo 7, Koh Khanun Sub-district, Phanom Sarakham District. Chachoengsao Province. The total leased area is 130.90 square meters. The lease period is from August 1, 2022 to July 31, 2024, with the rental rate and utility bills (such as water bills, electricity bills), which are comparable to the third party.	
Land Rental Fee Mr. Teerawut Songmetta SS Total	129 <u>373</u> <u>502</u>	129 <u>373</u> <u>502</u>	BPP entered into a long-term lease agreement with Mr. Teerawut Songmetta, amounting to 14-0-57 rai, to be the site of the Klong Khlung SPP Hybrid Project (BPP3) with a lease term of 23 years, with a one-time payment of the rent on the date of registration of the right, which BPP paid leasehold registration fee.	The Audit Committee's opinion The transaction is supporting normal business of the group of companies and occurs as necessary for business operations, with general trading conditions. The transportation service fee of the related company is also cheaper than the service fee charged by a third party. Therefore, it can be considered that the transaction is reasonable and beneficial to the Group of Companies.
Accrued and Rental Fee Mr. Teerawut Songmetta	178	-	BPP entered into a long-term lease agreement with SS for the amount of 40-3-4.1 rai with a lease term of 23 years by paying the full rental fee once on the date of registration of the leasehold right, which BPP paid leasehold registration fee.	
Land Rental Fee paid in advance Mr. Teerawut Songmetta SS Total	2,890 <u>8,330</u> <u>11,220</u>	2,761 <u>7,957</u> <u>10,718</u>	The land rental rate is determined from the method of estimating the annual rental rate from the market price of the land.	

(6) Subsidiaries purchase other goods and services.

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
Management fee for biomass fuel and housekeeping services GIE	101,585	130,448	A subsidiary operating a biomass Power Plant has hired GIE to manage biomass fuels and provide housekeeping services under the contract period of 1 year and 2 months, and the	The Audit Committee's opinion This is a normal business transaction of the Group, to

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
Other payables - Management fees for biomass fuels and housekeeping services GIE	5,457	4,782	9-year contract which was expired on 31 December 2021. There is a renewal condition from 1 Jan 2022 – 31 December 2022, with the scope of employment as follows 1. Preparation, classification, mixing, and feeding of biomass fuel into the electricity generation process 2. Transporting the ashes from the production process to the landfill pond within the project 3. Office housekeeping services	reduce the cost of personnel management of the Group, with pricing (Total expenses), comparable to the operations of its own subsidiaries. Therefore, the said transaction is considered reasonable and beneficial to the Group.
Energy Fee AAS	152	72	The subsidiary purchased energy from AAS, for self-cultivation and to distribute to farmers in nearby communities, as a trial planting, as an alternative fuel in the future, to plant within the Power Plant area, as a buffer zone of Power plants, and for community relations activities, because AAS is a company doing agricultural research, and has a comparable trading price with external vendors.	The Audit Committee's opinion This transaction is a normal business support transaction of the Group, and occurs as needed in the course of business, with the same energy source price that AAS sells to other parties. (Company under common control of the major shareholder). Therefore, the said transaction is considered reasonable and beneficial to the Group.
Staff Training Fees APT	1,345	1,689	The company and its subsidiaries have hired APT to train staff, because APT runs training and training services for employees in the Songmetta Group. The training rates will be comparable to the training rates for companies within the Songmetta Group, and lower than the rates comparable to third parties.	The Audit Committee's opinion This transaction is a normal business support transaction of the Group, and will occur as necessary in the course of business operations. The training fee is cheaper than the training fee provided by outsiders and APT determines the training fee at the same level as the price offered to others. (Company under the control of the major shareholder). Therefore, the said transaction is considered reasonable and beneficial to the Group.

(7) Subsidiaries distribute electricity

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
Revenue from electricity distribution TAB	5,051	3,347	The subsidiary company will distribute electricity produced to related parties for use in various factories. For example, wood chopping plants,	The Audit Committee's opinion

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
AAF	8,726	11,236	hardboard board factories, and plywood factories, as well as distributing electricity for temporary operations, such as offices, and weighing rooms, as the Power Plant will have the remaining production capacity from obtaining Distribute electricity to PEA and EGAT from using in the factory. Therefore, the subsidiary has sold excess electricity to the related companies such as TAB, AAF, GWC, AUT, AAS and AES.	This transaction is a normal business support transaction of the Group, and will occur as necessary in the course of business operations. The training fee is cheaper than the training fee provided by outsiders and APT determines the training fee at the same level as the price offered to others. (Company under the control of the major shareholder). Therefore, the said transaction is considered reasonable and beneficial to the Group.
GWC	12,980	18,734		
AUT	271	-		
AAS	870	927		
AES	<u>9,508</u>	<u>10,150</u>		
Total	<u>37,406</u>	<u>44,394</u>		
Accrued electricity income				
TAB	495	217		
AAF	1,401	908		
GWC	1,283	1,182		
AAS	204	83		
AES	<u>705</u>	<u>914</u>		
Total	<u>4,088</u>	<u>3,304</u>		
Receivable from electricity distribution				
TAB	2,719	2,717		
AAF	893	1,956		
AAS	70	211		
AES	<u>738</u>	<u>884</u>		
Total	<u>4,420</u>	<u>5,768</u>		

(8) The subsidiary distributes the steam.

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
Revenue from steam sales			AAA sell steam to TAB, which is located near AAA1 power plants, because the Group has steam generated from electricity generation processes. Therefore, AAA sell the said steam for use in the business of the related companies, with the following details: AAA1 sells low-pressure steam to TAB for use in the Veneer Plywood project, which is located next to the power plant, with a short-term contract of 1 year, from the first day of steam trading, the price is set at THB 700/ton of steam in the first year, and the price will increase every year at the rate of 1% per year. The revenue from the said steam distribution will be additional revenue from the excess capacity from the power plant, with a gross margin of approximately 40	The Audit Committee's opinion This transaction is a normal business transaction of the Group, which is considered the most efficient use of machinery that the Group has in place. In the past, the production of steam for distribution is mainly the use of excess production capacity from the sale to PEA. Therefore, the said sale of electricity creates additional return for the Group. In addition, TAB's steam cost is calculated from the estimated cost of steam cost plus 40% of the cost. Therefore, the said transaction is considered reasonable and beneficial to the Group.
TAB	8,381	3,971		
Receivable – revenue from steam				
TAB	790	244		
Receivable from steam sales				
TAB	4,537	3,197		

(9) The subsidiary distributes other products and services.

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
Income from land rental			Subsidiaries, including ACP, AAP, and ACW allow AAS to lease land to use as seedling plantations, office locations, and for other uses in the AAS business, that will enter into a 1-year land lease agreement, and with the terms renewed for 1 year each time, if there is no one party notifying either party to renew the contract with the details as follows; • ACP2 power plant, rental area of 57.23 rai • AAP1 Power Plant, rental area 31.57 Rai • PSPR1 power plant, rental area 115.69 rai The contract will have a rental fee of THB 1,500 per rai per year, which is comparable to the rental rates of nearby areas. In 2021, ALCP has provided GWC to lease additional land in Ban Bueng.	The Audit Committee's opinion This transaction is a normal business support transaction of the Group, and will occur as a business transaction is necessary, with the rental price fixed at a rate not higher than general market prices, when compared to similar areas, and in the vicinity. Therefore, it can be considered that the said transaction is reasonable and beneficial to the Group.
AAS	310	307		
GWC	37	67		
Accrued income from land rental				
AAS	58	58		
Land rental income received in advance			In 2021, the subsidiary company has entered into operation and maintenance agreements with power plants. In this regard, the subsidiary has provided repair and maintenance services to a related company, AAF.	The Audit Committee's opinion This is a normal business support transaction of the Group of Companies and occurs as necessary to operate the business. The purchase price is cheaper than the third party's comparable price, which is comparable to that of third parties that the Group of Companies. Used to service in other projects Therefore, it can be considered that such transactions are reasonable and beneficial to the Group of Companies.
AAS	57	57		
GWC	30	30		
Revenue from repair and maintenance of machinery				
AAF	-	721		
Income from the procurement and sale of spare parts and equipment			In 2022, the subsidiary has procured and sold spare parts and equipment. to a related company, AES	The Audit Committee's opinion This transaction is a normal business transaction in the Group's business operations. The transaction price is comparable to the third party, therefore, it can be considered that the transaction is reasonable and beneficial to the Company Group.
AES	-	314		
Revenue from consulting services Install and improve machines			In 2021, the subsidiary has provided consulting services, install and improve machines to related companies, AAF, AEDF and AES.	The Audit Committee's opinion This transaction is a normal business transaction in the Group's business operations. The transaction price is
AAF	156	-		
AEDF	620	-		
AES	370	-		

Item	Transaction Size (Thousand THB)		Necessity & Transaction Rationale	Opinion of the Audit Committee
	2021	2022		
Total	<u>1,146</u>	=		comparable to the third party; therefore, it can be considered that the transaction is reasonable and beneficial to the Company Group.

Measures & Procedures for Approving of Related Party Transactions

The Board of Directors Meeting No. 1/2018 (after the transformation), on July 19, 2018, issued a resolution approving from the Audit Committee Meeting No. 11/2018, on July 11, 2018, considered Approval of policies and procedures for related party transactions, which will be effective from July 19, 2018 onwards, in order for the related party transactions between the company and its subsidiaries and individuals, or juristic persons to There may be conflicts of the company, will be transparent, and to safeguard the interests of the Company and its subsidiary companies, which can be summarized as follows;

The transaction between the company or the related company and / or subsidiary company will be in accordance with the rules and regulations of the Securities and Exchange Act B.E. 1992 (including the amendment), and the announcement of the Capital Market Supervisory Board, At Tor Chor No. 21/2008, regarding the rules for related party transactions, together with the announcement of the Stock Exchange of Thailand, regarding the disclosure of information and the operation of Related companies, including the rules and regulations of the Securities and Exchange Commission, and relevant stock exchanges, as well as compliance with the requirements regarding disclosure of related party transactions, in the notes to the financial statements that have been Audited by the auditor of the company, and the annual registration statement (Form 56-1) as well.

In the event that the law requires the company to receive approval from the board of directors, and/or the shareholders' meeting prior to engaging in any related party transactions, the company will arrange for the Audit Committee to comment on the said transaction. Opinions of the Audit Committee will be presented to the meeting of the Board of Directors, or shareholders, as the case may be, to ensure that, entering into the proposed transaction is going to be in the best interest of the company. In this matter, to approve the related transaction or the related party transactions, the directors, executives, and shareholders, with whom have interests in that matter, will not attend the meeting, will not participate in the approval process, and will not have the right to vote on items in which they have vested interests.

If there is a related party transaction, or a related transaction of the company or subsidiary, with a person who may have a conflict of interest, has a vested interest, or may have a conflict of interest in the future, the Audit Committee will provide an opinion on the necessity of the transaction, and the price suitability of that transaction. In this regard, will be considered from various conditions, in accordance with normal business operations in the industry, and will be compared with the prices of third parties or market prices. If the audit committee does not have expertise in considering the related transactions, or the related party transactions that may occur, the company will appoint an independent expert, or the company's auditor to give an opinion on the related party transactions, or in the said related party transactions, in order to be used in the decision of the Board of Directors, the Audit Committee, or the shareholders, as the case may be. Directors who are stakeholders will not have the rights to vote on the said

transaction, and will disclose the related transaction, in the notes to the financial statements audited, or reviewed by the company's auditor.

In this regard, the Board of Directors Meeting No. 1/2018 (after the transformation) on 19 July 2018, the Board of Directors Meeting No. 8/2019 on August 19, 2019, the Board of Directors meeting No. 11/2019 on 25 December 2019, the Board of Directors Meeting No. 2/2020 on 24 February 2020, the Board of Directors Meeting No. 3/2020 on March 4, 2020, the Board of Directors Meeting No. 7/2020 on 10 August 2020, the Board of Directors Meeting No. 8/2020 on 15 October 2020, the Board of Directors Meeting No. 2/2021 on 25 February 2021, the Board of Directors Meeting No. 5/2021 on 28 May 2021, the Board of Directors Meeting No. 7/2021 on 10 September 2021, the Board of Directors Meeting No. 9/2021 on 16 December 2021, the Board of Directors Meeting No. 11/2022 on 28 February 2022, the Board of Directors Meeting No. 12/2022 on 11 November 2022 and respectively, have approved the principle of the related party transactions (The applicable version, and the revised version). In the event that there are general trading conditions, or there will be a trade agreement in the same manner that a reasonable person should do with a general contractor in the same manner, with the power to negotiate a trade in the same manner that a reasonable person should do with general counterparts in the same situation, with the bargaining power without influence in their status as Directors, executives, and related parties (depending on the case), consisting of 22 items as follows:

- 1) Distribution of electricity and / or steam
- 2) Purchase of raw materials for biomass fuels from bark of eucalyptus
- 3) The purchase of raw materials for biomass fuel, wood chips
- 4) The purchase of raw materials for biomass fuels such as wood chips, wood dust, and pieces of work
- 5) Purchase of water for use in the production process
- 6) Procurement of services for weighing biomass fuel as raw material
- 7) Hire of transportation
- 8) Rental and hire, truck, trailer, and heavy equipment
- 9) Rental or rental of real estate, with a lease term not exceeding 3 years
- 10) Training service outsourcing
- 11) Hiring a biomass fuel management, and / or housekeeper service
- 12) Contracting for repair and maintenance of machinery
- 13) Purchase of assets, and / or hiring to create items, for maintenance
- 14) Purchasing of eucalyptus seedlings
- 15) Project feasibility study
- 16) Public relations of the project and public participation
- 17) Application for permission according to legal requirements
- 18) Old waste handling services into production processes and ashes to be disposed of
- 19) Outsourcing of information technology services for ERP software to install (Implement), maintain (Maintenance), develop additional work systems (Customize) and solve problems (Work Order)
- 20) Procurement and distribution of spare parts and equipment
- 21) Outsourcing service engineering design Supply of machinery and equipment installation of machinery and equipment and construction (EPC Contractor) for the construction of the power plant project
- 22) Lease or lease property with a lease term of not more than 3 years.

However, the Company and its subsidiaries do not have a policy to provide financial assistance, to receive financial assistance, and to provide guarantees to related persons.

If there is a transaction that is a general trade agreement that is not a general trade condition, it must be considered and commented by the Audit Committee, before being presented to the Board of Directors, and/or at the shareholders' meeting, for further consideration and approval. In this regard, it shall comply with the laws governing securities and exchange, and regulations, announcements, orders, and regulations of the Capital Market Supervisory Board, the Stock Exchange of Thailand, and the Office of the Securities and Exchange Commission, including the compliance, in disclosing information of related party transactions. If the Audit Committee is not skilled in considering the connected transaction, the company will appoint an independent expert, or the company's auditor will provide an opinion on the related party transactions, in order to support the decision of the Audit Committee, and/or the Board of Directors, and/or Shareholders, as the case may be, to ensure that the transaction is necessary and reasonable with due regard to the company's benefits

Future Trends of Related Party Transactions

The company and/or subsidiaries, will have ongoing transactions, with persons who may have conflicts in the future, at least according to the resolution of the Board of Directors Meeting No. 1/2018 (after transformation), on 19 July 2018, which had approved in principle for the related party transactions. If there are general trading conditions as specified in Item 1, the Group has a policy to enter into transactions with normal business nature, or transactions to support normal business, to have general trade conditions, will be able to compare and can be referenced to the same nature and business conditions as doing business with other parties, including setting prices and transaction terms to be clear, to be fair, and to not cause the transfer of benefits.

In addition, the Group has additional policies regarding future related party transactions, such as land procurement policy, and engineering design service provider policy, procurement of machinery and equipment, and EPC Contractor. Both policies have been approved by the Audit Committee Meeting No. 2/2018 after transformation), on 5 September 2018, and approved by the Board of Directors Meeting No. 4/2018. (After transformation), on 17 September 2018, with details as follows;

1.1 The land procurement policy sets guidelines for the purchase of land from connected persons, using the land price calculation formula, which consists of direct costs of land acquisition and general commission rates in the market. The said price of land must not be higher than the value of land assessed by an independent appraiser approved by the SEC. The Group may appoint or assign connected persons as brokers to gather land, or lease land from connected persons. However, the commission rate, or the rental rate must not be higher than the commission rate in the market, or the rental rate that the Group must pay to outsiders, if the land has characteristics, amount, conditions, and the conditions of time that are similar.

In the future, the Group will use the contract to buy land directly with land owners, or will hire a land broker to act on behalf, which is expected to be a third party only.

1.2 The EPC Contractor Procurement Policy establishes an open, EPC Contractor-based approach to procurement, taking into account the group's benefits. The Group will try to avoid hiring a related party transactions as an EPC Contractor in all cases, except where it is necessary and unavoidable; the Group may allow the connected person to be one of the bidders. This must be in accordance with the rules of the bidding process, or the selection

of the EPC Contractor used by the Group with third parties. Such transactions must be in accordance with the company's related party transactions policy and relevant laws, and those who are interested in the said transaction will not be able to approve or vote on the said matter.

However, if the machinery installation contract (EPC) has not yet started, which the Group has made with connected persons in the past, the Group will negotiate to reach a mutual agreement on termination of the contract. If it has been partially completed but not yet completed, the Group will allow the connected persons to complete the process under the condition that, the project owner must be refunded to the PPA, or with written certainty that will be returned PPA, so the rest of the work can be performed under the EPC contract.

The Group realizes the importance of making related party transactions, especially those without general trading conditions, such as the construction of a subsidiary's power plant, land purchase. The Group has therefore determined a method for selecting Power Plant contractors appropriately and fairly with other contractors, by comparing the prices, technology used, trade conditions, experience, and business size of the contractor, for the best interest of the group of companies. If the company will enter into any related party transactions, or future related transactions, the group will operate in accordance with the laws, rules, and notifications of the Capital Market Supervisory Board, and announcements specified by the Securities and Exchange Commission.

However, when considering the past related party transactions, the amount and total value of the transactions tend to decrease continuously, due to the decrease in the proportion of the amount of biomass fuel purchased from the Group, which is expected to be left with necessary transactions only.

3. Affidavit of Major Shareholder Group

In addition, in order to prevent potential conflicts of interest, the Songmetta Group, a director, and or a major shareholder of the company, has issued a letter confirming the company, dated 29 November 2018, with the essence of the following certifications

1. Songmetta Group will not operate on its own, or proceeding through the connected persons, or any other persons, will act in the following manner

- 1.1) To operate a competing business, and / or to compete in the core business of the group.
- 1.2) To act in a manner that is considered to be a participant in the management of any other juristic person, which operates a business of the same or similar nature, or similar, or is a competition, or runs a business competition with the main business of the Group of Companies, but will not cut the rights of minor shareholders, or holders of securities of any kind less than, or equal to 2%. In this regard, the parts of related persons shall be included as well.
- 1.3) To persuade, or attempt to persuade Directors, Executives, consultants, employees, employees of the Group, to resign, or to terminate work, services, employment for the Group's core business.
- 1.4) To persuade, or attempt to persuade customers under the group's core business, to cease being a customer under the Group's core business, or to reduce purchases or use of services under the group's core business.

2. Songmetta Group has agreed to report the ownership interests within 3 business days, from the date the information is changed, to the Company Secretary, and Company Secretary to provide the Stakeholder Report to the Company's Audit Committee, and/or the Board of Directors as deemed appropriate.

3. If the Songmetta Group engages in a competing business, and / or operates in competition with the Group's core business, before signing a certification letter, the Songmetta Group agrees to carry out the sale, sale, And the transfer of ownership (de jure) of the aforementioned business to a company or subsidiary specified by the company, within a period of 180 days, from the date the Group made a written notice to the Songmetta Group, except for holding shares in Advance Power Plant Co., Ltd. ("APP"), must be sold within 180 days, from the date of knowing the result of requesting to return the power purchase agreement. The purchase price must be a reasonable price according to the criteria for entering into the related party transaction, including the need to proceed in accordance with relevant laws and regulations.

If the Group denies exercising the above rights, the Songmetta Group will proceed to dispose of the ownership of the competing business to anyone other than the Songmetta Group, or persons connected to the Songmetta Group within 360 days, from the date the Group declined, according to the announcement of the related party transaction. The price and conditions agreed to sell to other parties must not be lower price, and / or have better conditions than the purchase price and trading conditions agreed with the company.

4. If the Songmetta Group receives an opportunity or any business proposal that may conflict with the group's core business, the Songmetta Group will first offer the business opportunity or proposal to the company for consideration. If the resolution of the Board of Directors 'meeting, or the resolution of the shareholders' meeting of the company, as the case may be, according to the related party transaction criteria, which are independently convened by the Songmetta Group, and the persons related to the Songmetta Group are not Participated in consideration, and had not voted on the said agenda, will have a resolution explicitly refusing to invest in that project, and will allow the Songmetta Group to invest in the said project. Songmetta Group will consider self-investing, must abide by the relevant laws and regulations, and Article 86 of the Public Limited Company Act.

If later on, Songmetta Group intends to dispose of the above investment to other investors. Songmetta Group will agree to give the Group the right to consider, and / or the right of first purchase (Right of First Refusal) according to the purchase price and the conditions of sale as further agreed, must proceed in accordance with the relevant rules and criteria for entering into the transaction, or the disposal of assets, and the criteria for entering into related party transactions strictly.

5. Songmetta Group (any one) has agreed to terminate the obligations under the letter of guarantee in all respects. From the following;

5.1 Termination from being a Director and Executive of the group company.

5.2 The holding of ordinary shares in the company will be less than, or equal to 5% of the paid-up capital of the company.

However, if any person in the Songmetta Group has acted in violation of the above endorsement, the person who violated the certification will be liable, and will have a duty to comply with the conditions specified in the certification. The remaining of Songmetta Group, whom have not acted or did not participate in any violation of the guarantee, will not be held liable in any way.

The above measures have been established to eliminate conflicts of interest, and to protect the best interests of shareholders, after being listed on the stock exchange, to comply with the regulations on related party transactions of the Stock Exchange of Thailand and the Office of the Securities and Exchange Commission.

Part 3

Financial Statements





*Convert **Waste** to Energy*

Report of the Board of Directors' Responsibilities for the Financial Statements

The Board of Directors of Absolute Clean Energy Public Company Limited ("The Company") is responsible for the consolidated financial statements of the Company and subsidiaries and the separate financial statements of the Company for the period ended December 31, 2022. The report was prepared in accordance with Thai Financial Reporting Standards and consistently used and appropriate accounting policies and practices. The report also includes the disclosure of sufficient important information in the notes accompanying the financial statements, as well as providing sufficient and appropriate internal control and risk management systems to ensure a reliable accounting information. The financial statements have been audited and unconditionally certified by an independent certified auditor.

The Board of Directors have appointed the Audit Committee, consisting of three independent directors, to supervise and review the reliability and accuracy of financial reports and financial statements, as well as the related-party transactions, the internal control, the internal audit and the risk management systems by discussing and meeting with the internal auditor and the company external auditor, as shown in the report of the Audit Committee which is already included in this report.

The Board of Directors hold the opinion that the Company's internal control and internal audit system can assure that the consolidated financial statements of the Company and subsidiaries and the separate financial statements of The Company for the year ended December 31, 2022, were prepared in accordance with Thai Financial Reporting Standards by using regularly used and appropriate accounting policies.



(Mr. Monton Sudprasert)

Chairman of the Board of Directors



(Ms. Jiratha Songmetta)

Chairman of Executive Committee

28 February 2023

Independent Auditor's Report

To the shareholders and the Board of Directors of Absolute Clean Energy Public Company Limited

My opinion

In my opinion, the consolidated financial statements and the separate financial statements present fairly, in all material respects, the consolidated and separate financial position of Absolute Clean Energy Public Company Limited ("the Company") and its subsidiaries ("the Group") the separate financial position of the Company as at 31 December 2022, and its consolidated and separate financial performance and its consolidated and separate cash flows for the year then ended in accordance with Thai Financial Reporting Standards ("TFRS").

What I have audited

The consolidated financial statements and the separate financial statements comprise:

- the consolidated and separate statements of financial position as at 31 December 2022;
- the consolidated and separate statements of comprehensive income for the year then ended;
- the consolidated and separate statements of changes in equity for the year then ended;
- the consolidated and separate statements of cash flows for the year then ended; and
- the notes to the consolidated and separate financial statements, which include significant accounting policies and other explanatory information.

Basis for opinion

I conducted my audit in accordance with Thai Standards on Auditing (TSAs). My responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the consolidated and separate financial statements section of my report. I am independent of the Group and the Company in accordance with the Code of Ethics for Professional Accountants including Independence Standards issued by the Federation of Accounting Professions (TFAC Code) that are relevant to my audit of the consolidated and separate financial statements, and I have fulfilled my other ethical responsibilities in accordance with the TFAC Code. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my opinion.

Key audit matters

Key audit matters are those matters that, in my professional judgement, were of most significance in my audit of the consolidated and separate financial statements of the current period. I determined one key audit matter: Impairment assessment of property, plant and equipment of the indirect subsidiaries. The matter was addressed in the context of my audit of the consolidated and separate financial statements as a whole, and in forming my opinion thereon, and I do not provide a separate opinion on the matter.

Key audit matter

How my audit addressed the key audit matter

Impairment assessment of property, plant and equipment

Refer to Note 7 c) Impairment of Property, Plant and Equipment and Note 18 Property, Plant and Equipment, (net) to the financial statements.

As of 31 December 2022, the Company had property, plant and equipment (PPE) (net) amounting to Baht 11,226.82 million, equivalent to 55.94% of total assets in the consolidated financial statements.

Management tests impairment of PPE when there is an indicator that PPE may be impaired in the following events:

- failure to comply with the terms of power purchase agreement
- disputes that may affect the operation of projects or power purchase agreement
- discrepancies in operating results from forecasts

The impairment test is performed at level of cash-generating unit ("CGU") which is a group of PPE used in the Group's power plant business by calculating the recoverable amount (the higher of fair value less costs to dispose or value-in-use) of cash-generating unit. Management applies significant judgment in identifying cash-generating units and setting various assumptions, such as estimating selling price of electricity per unit, power plant capacity, operating costs, capital structure, growth rate and discount rate used to discount cash flow projections.

In 2022, management found impairment indicators of PPE used in the biomass power plant business of two indirect subsidiaries with a total value of Baht 625.24 million. This was because the discrepancies in operating results from the forecasts. From the impairment test, management found that the recoverable amount of PPE was higher than the book value. Therefore, the allowance for PPE impairment of the indirect subsidiaries was not recognised this year.

I focused on the impairment test because the determination of the recoverable amount estimate required many computational assumptions. In addition, the determination of such assumptions was subject to management's significant judgments in assessing the feasibility of future business plans.

I performed the following procedures to assess the impairment test conducted by management.

- Evaluating the appropriateness of any impairment indicators conducted by management and identifying cash-generating units.
- Discussing with management to understand their assumptions for the impairment test. Also, assessing the consistency of impairment test procedures and the assumptions used by management.
- Inquiring management about the key assumptions used by them in testing the impairment of the subsidiaries' PPE, especially information related to the estimated selling price of electricity per unit, power plant capacity, operating costs, capital structure, growth rate and discount rate. This included comparing key assumptions with relevant contracts, external sources and approved business plans.
- Evaluating the business plans' reasonableness by comparing the 2022 plan against the actual results.
- Evaluating the discount rate by considering and comparing it with information from companies in the same industry that can be referenced from publicly available information whether the discount rate used by management was within acceptable limits.
- Testing the sensitivity analysis of key assumptions to assess the possible impact of changes in the assumptions.

From the above procedures, I found the key assumptions made by management in evaluating the recoverable amount were reasonable and consistent with the supporting evidence.

Other information

The directors are responsible for the other information. The other information comprises the information included in the annual report, but does not include the consolidated and separate financial statements and my auditor's report thereon. The annual report is expected to be made available to me after the date of this auditor's report.

My opinion on the consolidated and separate financial statements does not cover the other information and I will not express any form of assurance conclusion thereon.

In connection with my audit of the consolidated and separate financial statements, my responsibility is to read the other information identified above when it becomes available and, in doing so, consider whether the other information is materially inconsistent with the consolidated and separate financial statements or my knowledge obtained in the audit, or otherwise appears to be materially misstated.

When I read the annual report, if I conclude that there is a material misstatement therein, I am required to communicate the matter to the audit committee.

Responsibilities of the directors for the consolidated and separate financial statements

The directors are responsible for the preparation and fair presentation of the consolidated and separate financial statements in accordance with TFRS, and for such internal control as the directors determine is necessary to enable the preparation of consolidated and separate financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated and separate financial statements, the directors are responsible for assessing the Group's and the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the directors either intend to liquidate the Group and the Company or to cease operations, or has no realistic alternative but to do so.

The audit committee assists the directors in discharging their responsibilities for overseeing the Group's and the Company's financial reporting process.

Auditor's responsibilities for the audit of the consolidated and separate financial statements

My objectives are to obtain reasonable assurance about whether the consolidated and separate financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes my opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with TSAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated and separate financial statements.

As part of an audit in accordance with TSAs, I exercise professional judgement and maintain professional scepticism throughout the audit. I also:

- Identify and assess the risks of material misstatement of the consolidated and separate financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for my opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Group's and the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the directors.
- Conclude on the appropriateness of the directors' use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's and the Company's ability to continue as a going concern. If I conclude that a material uncertainty exists, I am required to draw attention in my auditor's report to the related disclosures in the consolidated and separate financial statements or, if such disclosures are inadequate, to modify my opinion. My conclusions are based on the audit evidence obtained up to the date of my auditor's report. However, future events or conditions may cause the Group and the Company to cease to continue as a going concern.

- Evaluate the overall presentation, structure and content of the consolidated and separate financial statements, including the disclosures, and whether the consolidated and separate financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. I am responsible for the direction, supervision and performance of the group audit. I remain solely responsible for my audit opinion.

I communicate with the audit committee regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that I identify during my audit.

I also provide the audit committee with a statement that I have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on my independence, and where applicable, related safeguards.

From the matters communicated with the audit committee, I determine those matters that were of most significance in the audit of the consolidated and separate financial statements of the current period and are therefore the key audit matters. I describe these matters in my auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, I determine that a matter should not be communicated in my report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

PricewaterhouseCoopers ABAS Ltd.



Krit Chatchavalwong

Certified Public Accountant (Thailand) No. 5016
Bangkok
28 February 2023

Statement of Financial Position

As at 31 December 2022

	Notes	Consolidated financial statements		Separate financial statements	
		2022 Baht	2021 Baht	2022 Baht	2021 Baht
Assets					
Current assets					
Cash and cash equivalents	10	429,104,439	890,748,583	46,152,349	4,755,328
Trade and other receivables	12	1,432,412,866	1,069,039,049	2,217,828	2,450,846
Current portion of receivable under finance lease (net)	13	116,976,350	110,073,198	-	-
Inventories	14	957,396,812	531,632,539	-	-
Value added tax (net)	15	80,141,354	53,909,836	-	-
Short-term derivative assets	42.4	1,685,365	104,598	-	-
Short-term loan to an indirect subsidiary	41 d)	-	-	44,000,000	-
Other current assets		14,414,295	16,412,307	-	-
Total current assets		3,032,131,481	2,671,920,110	92,370,177	7,206,174
Non-current assets					
Restricted deposits at financial institutions	11	397,590,514	435,613,863	-	-
Receivable under finance lease (net)	13	3,283,987,821	3,275,085,106	-	-
Investments in subsidiaries	16	-	-	10,999,999,980	9,326,999,980
Investment property (net)	17	123,782,405	210,684,140	-	-
Property, plant and equipment (net)	18	11,226,818,779	10,261,292,954	66,333,003	69,999,009
Advance payments for constructions and purchases of fixed assets		276,173,105	95,179,273	-	-
Rights to service under concession arrangement (net)	19	1,470,960,105	1,555,248,520	-	-
Right-of-use assets (net)	20	68,557,968	36,577,391	4,888,025	6,334,854
Intangible assets from power purchase agreement	21	16,000,060	16,000,060	-	-
Intangible assets (net)	22	59,966,733	58,479,551	1,674,835	1,778,919
Deferred tax assets (net)	23	55,674,285	69,572,435	1,037,536	735,103
Other non-current assets	24	59,498,515	54,547,108	5,311,303	4,527,745
Total non-current assets		17,039,010,290	16,068,280,401	11,079,244,682	9,410,375,610
Total assets		20,071,141,771	18,740,200,511	11,171,614,859	9,417,581,784

The accompanying notes are an integral part of these consolidate and separate financial statements.

Statement of Financial Position

As at 31 December 2022

		Consolidated		Separate	
		financial statements		financial statements	
	Notes	2022	2021	2022	2021
		Baht	Baht	Baht	Baht
Liabilities and equity					
Current liabilities					
Short-term loans from financial institutions	25	396,202,466	214,500,000	199,702,466	-
Trade and other payables	26	508,705,825	327,803,617	104,553,001	8,536,895
Current portion of					
- Liabilities under finance lease agreements (net)	29	3,189,070	1,662,838	1,293,789	1,239,906
- Long-term loans from financial institutions (net)	30	795,041,768	702,118,153	-	-
Provision for power plant maintenance under concession arrangement	28	-	26,608,975	-	-
Value added tax (net)	15	47,582,312	42,276,829	251,885	355,708
Accrued income tax		10,214,435	6,780,642	-	-
Short-term derivative liabilities	42.4	239,401	-	-	-
Other current liabilities	27	7,495,890	5,444,011	578,570	715,508
Total current liabilities		1,768,671,167	1,327,195,065	306,379,711	10,848,017
Non-current liabilities					
Provision for power plant maintenance under concession arrangement	28	17,363,518	5,400,543	-	-
Liabilities under finance lease agreements (net)	29	30,281,094	24,905,061	4,108,324	5,405,113
Long-term loans from financial institutions (net)	30	3,850,138,356	3,836,935,824	-	-
Deferred tax liabilities (net)	23	208,706,695	168,238,895	-	-
Employee benefit obligations	31	11,216,039	8,947,511	5,187,682	3,675,518
Total non-current liabilities		4,117,705,702	4,044,427,834	9,296,006	9,080,631
Total liabilities		5,886,376,869	5,371,622,899	315,675,717	19,928,648

The accompanying notes are an integral part of these consolidate and separate financial statements.

Statement of Financial Position

As at 31 December 2022

	Notes	Consolidated		Separate	
		financial statements		financial statements	
		2022	2021	2022	2021
		Baht	Baht	Baht	Baht
Liabilities and equity (Cont'd)					
Equity					
Share capital	32				
Authorised share capital					
10,975,999,960 ordinary shares					
of Baht 0.50 per share		5,487,999,980	5,487,999,980	5,487,999,980	5,487,999,980
Issued and fully paid-up share capital					
10,175,999,960 ordinary shares					
of Baht 0.50 each		5,087,999,980	5,087,999,980	5,087,999,980	5,087,999,980
Share premium		3,896,006,978	3,896,006,978	3,896,006,978	3,896,006,978
Retained earnings					
- Appropriated - legal reserve	34	141,825,834	45,225,834	141,825,834	45,225,834
- Appropriated - treasury shares reserve	32	268,010,560	-	268,010,560	-
- Unappropriated		5,022,191,104	4,308,984,695	1,730,106,350	368,420,344
Treasury shares	32	(268,010,560)	-	(268,010,560)	-
Deficit from business combination					
under common control		(22,886,961)	(22,886,961)	-	-
Equity attributable to owners of the parent		14,125,136,935	13,315,330,526	10,855,939,142	9,397,653,136
Non-controlling interests		59,627,967	53,247,086	-	-
Total equity		14,184,764,902	13,368,577,612	10,855,939,142	9,397,653,136
Total liabilities and equity		20,071,141,771	18,740,200,511	11,171,614,859	9,417,581,784

The accompanying notes are an integral part of these consolidate and separate financial statements.

Statements of Comprehensive Income

For the year ended 31 December 2022

	Notes	Consolidated financial statements		Separate financial statements	
		2022 Baht	2021 Baht	2022 Baht	2021 Baht
Sales of goods and services	35	6,502,070,816	5,315,885,461	82,800,000	80,880,000
Revenue from finance lease under Power Purchase Agreement		414,942,989	411,035,336	-	-
Cost of sales and services	35	(5,044,330,280)	(3,807,969,251)	(64,733,403)	(61,332,557)
Gross profit		1,872,683,525	1,918,951,546	18,066,597	19,547,443
Net gain (loss) on exchange rate		53,466,275	155,757,750	14,555	(1,414)
Dividend income from a subsidiary	16	-	-	1,943,312,996	395,999,999
Net gain on forward contract		1,341,366	12,197,874	-	-
Other income	36	16,956,377	12,750,686	2,419,011	28,331
Profit before expenses		1,944,447,543	2,099,657,856	1,963,813,159	415,574,359
Administrative expenses		(438,160,202)	(350,349,632)	(32,803,572)	(31,957,109)
Finance costs	38	(132,092,477)	(141,373,462)	(346,055)	(269,933)
Profit before income tax		1,374,194,864	1,607,934,762	1,930,663,532	383,347,317
Tax income (expense)	39	(92,764,110)	(102,517,118)	69,921	59,981
Profit for the year		1,281,430,754	1,505,417,644	1,930,733,453	383,407,298
Other comprehensive income:					
Item that will not be reclassified to profit or loss					
- Remeasurements of post-employment benefit obligations	31	(820,083)	(20,315)	(1,162,561)	120,287
- Income tax on item that will not be reclassified to profit or loss	23	164,017	4,063	232,512	(24,057)
Total item that will not be reclassified to profit or loss		(656,066)	(16,252)	(930,049)	96,230
Other comprehensive income (expense) for the year net of tax		(656,066)	(16,252)	(930,049)	96,230
Total comprehensive income for the year		1,280,774,688	1,505,401,392	1,929,803,404	383,503,528

The accompanying notes are an integral part of these consolidate and separate financial statements.

Statements of Comprehensive Income

For the year ended 31 December 2022

	Note	Consolidated		Separate	
		financial statements		financial statements	
		2022	2021	2022	2021
		Baht	Baht	Baht	Baht
Profit (loss) attributable to:					
Owners of the parent		1,281,979,746	1,505,680,618	1,930,733,453	383,407,298
Non-controlling interests		(548,992)	(262,974)	-	-
		<u>1,281,430,754</u>	<u>1,505,417,644</u>	<u>1,930,733,453</u>	<u>383,407,298</u>
Total comprehensive income (expense)					
attributable to:					
Owners of the parent		1,281,323,807	1,505,664,366	1,929,803,404	383,503,528
Non-controlling interests		(549,119)	(262,974)	-	-
		<u>1,280,774,688</u>	<u>1,505,401,392</u>	<u>1,929,803,404</u>	<u>383,503,528</u>
Earnings per share					
- owners of the parent					
Basic earnings per share (Baht per share)	40	<u>0.13</u>	<u>0.15</u>	<u>0.19</u>	<u>0.04</u>

The accompanying notes are an integral part of these consolidate and separate financial statements.

Absolute Clean Energy Public Company Limited

Statement of Changes in Equity

For the year ended 31 December 2022

Consolidated financial statements (Baht)										
Attributable to owners of the parent										
Notes	Issued and fully paid-up share capital	Share premium	Retained earnings		Unappropriated	Treasury shares	Deficit from business combination under common control	Total owners of the parent	Non-controlling interests	Total equity
			Appropriated							
			- legal reserve	reserve						
Opening balance as at 1 January 2021	5,087,999,980	3,896,006,978	26,025,834	-	3,005,687,275	-	(22,886,961)	11,992,833,106	-	11,992,833,106
Change in equity for the year 2021										
Change in shareholding in indirect subsidiaries	-	-	-	-	-	-	-	-	27,500,000	27,500,000
Increase share capital in an indirect subsidiary	-	-	-	-	-	-	-	-	10,010,000	10,010,000
Preferred shares issued under										
power purchase agreement	21	-	-	-	-	-	-	-	16,000,060	16,000,060
Dividend paid	33	-	-	-	(183,166,946)	-	-	(183,166,946)	-	(183,166,946)
Legal reserve	-	-	19,200,000	-	(19,200,000)	-	-	-	-	-
Total comprehensive income for the year	-	-	-	-	1,505,664,366	-	-	1,505,664,366	(262,974)	1,505,401,392
Closing balance as at 31 December 2021	5,087,999,980	3,896,006,978	45,225,834	-	4,308,984,695	-	(22,886,961)	13,315,330,526	53,247,086	13,368,577,612
Consolidated financial statements (Baht)										
Attributable to owners of the parent										
Notes	Issued and fully paid-up share capital	Share premium	Retained earnings		Unappropriated	Treasury shares	Deficit from business combination under common control	Total owners of the parent	Non-controlling interests	Total equity
			Appropriated							
			- legal reserve	reserve						
Opening balance as at 1 January 2022	5,087,999,980	3,896,006,978	45,225,834	-	4,308,984,695	-	(22,886,961)	13,315,330,526	53,247,086	13,368,577,612
Change in equity for the year 2022										
Change in shareholding in indirect subsidiaries	16.1	-	-	-	-	-	-	-	6,930,000	6,930,000
Treasury shares	32	-	-	-	-	(268,010,560)	-	(268,010,560)	-	(268,010,560)
Appropriated - treasury shares reserve	32	-	-	268,010,560	(268,010,560)	-	-	-	-	-
Dividend paid	33	-	-	-	(203,506,838)	-	-	(203,506,838)	-	(203,506,838)
Legal reserve	-	-	96,600,000	-	(96,600,000)	-	-	-	-	-
Total comprehensive income for the year	-	-	-	-	1,281,323,807	-	-	1,281,323,807	(549,119)	1,280,774,688
Closing balance as at 31 December 2022	5,087,999,980	3,896,006,978	141,825,834	268,010,560	5,022,191,104	(268,010,560)	(22,886,961)	14,125,136,935	59,627,967	14,184,764,902

The accompanying notes are an integral part of these consolidate and separate financial statements

Statement of Changes in Equity

For the year ended 31 December 2022

			Separate financial statements (Baht)				
			Retained earnings (deficits)				
			Appropriated				
	Issued and fully paid-up share capital	Share premium	- treasury shares				
Note			- legal reserve	reserve	Unappropriated	Treasury shares	Total equity
Opening balance as at 1 January 2021	5,087,999,980	3,896,006,978	26,025,834	-	187,283,762	-	9,197,316,554
Change in equity for the year 2021							
Dividend paid	33	-	-	-	(183,166,946)	-	(183,166,946)
Legal reserve		-	19,200,000	-	(19,200,000)	-	-
Total comprehensive income for the year		-	-	-	383,503,528	-	383,503,528
Closing balance as at 31 December 2021	5,087,999,980	3,896,006,978	45,225,834	-	368,420,344	-	9,397,653,136

Separate financial statements (Baht)							
Notes	Issued and fully paid-up share capital	Share premium	Retained earnings (deficits)		Unappropriated	Treasury shares	Total equity
			Appropriated				
			- legal reserve	- treasury shares reserve			
Opening balance as at 1 January 2022	5,087,999,980	3,896,006,978	45,225,834	-	368,420,344	-	9,397,653,136
Change in equity for the year 2022							
Treasury shares	32	-	-	-	-	(268,010,560)	(268,010,560)
Appropriated - treasury shares reserve	32	-	-	268,010,560	(268,010,560)	-	-
Dividend paid	33	-	-	-	(203,506,838)	-	(203,506,838)
Legal reserve		-	96,600,000	-	(96,600,000)	-	-
Total comprehensive income for the year		-	-	-	1,929,803,404	-	1,929,803,404
Closing balance as at 31 December 2022	5,087,999,980	3,896,006,978	141,825,834	268,010,560	1,730,106,350	(268,010,560)	10,855,939,142

Statement of Cash Flows

For the year ended 31 December 2022

	Notes	Consolidated financial statements		Separate financial statements	
		2022 Baht	2021 Baht	2022 Baht	2021 Baht
Cash flows from operating activities					
Profit before income tax		1,374,194,864	1,607,934,762	1,930,663,532	383,347,317
Adjustments					
Unrealised gain on exchange rate of receivable under finance lease agreement		(49,203,493)	(147,031,491)	-	-
Unrealised gain on forward contracts		(1,341,366)	(12,197,874)	-	-
(Reversal of) loss from impairment					
- Investment property	17	(945,000)	-	-	-
- Property, plant and equipment	18	19,453,186	(1,191,550)	-	-
Depreciation	18, 20	639,483,001	578,051,809	5,580,739	5,511,888
Loss on write-off - fixed assets	18	14,656,967	11,337,628	-	-
Amortisation	19, 22	90,062,879	89,153,001	234,084	217,901
(Reversal) Provision for power plant maintenance under concession arrangement	28	11,414,000	(404,083)	-	-
Employee benefit obligations	31	1,448,445	1,113,495	349,603	299,909
Dividend income from a subsidiary	41 b)	-	-	(1,943,312,996)	(395,999,999)
Interest income	36	(2,105,813)	(1,661,311)	(38,293)	(28,331)
Gain on fix assets disposal	36	(132,269)	-	-	-
Gain on sales of short-term investments	36	(404,851)	(98,731)	-	-
Finance costs	38				
- Interest expense from loans		115,721,053	126,390,216	87,342	-
- Commitment fee		1,473,175	1,253,585	-	-
- Amortisation of prepaid transaction cost for borrowing		13,673,319	12,592,298	2,466	-
- Interest expense from liabilities under finance lease agreements		1,224,930	1,137,363	256,247	269,933
		2,228,673,027	2,266,379,117	(6,177,276)	(6,381,382)
Changes in working capital					
- Trade and other receivables		(348,431,237)	(255,625,741)	247,193	(555,553)
- Receivable under finance lease		33,397,626	18,206,615	-	-
- Inventories		(425,764,273)	(129,556,564)	-	-
- Value added tax		(20,926,035)	(14,034,186)	(103,823)	1,511,174
- Other non-current assets		(1,408,007)	(309,588)	-	(1,200)
- Trade and other payables		131,800,738	42,005,075	1,380,816	(1,804,236)
- Payments for power plant maintenance under a concession arrangement	28	(26,060,000)	-	-	-
- Other current liabilities		2,051,879	(4,421,372)	(136,938)	71,676
Cash generated from (used in) operating activities before interest income received and income tax paid		1,573,333,718	1,922,643,356	(4,790,028)	(7,159,521)
Interest income received		2,079,800	1,662,276	24,118	28,473
Income tax paid		(53,260,317)	(55,656,925)	(783,558)	(2,426,685)
Net cash generated from (used in) operating activities		1,522,153,201	1,868,648,707	(5,549,468)	(9,557,733)

The accompanying notes are an integral part of these consolidate and separate financial statements.

Statement of Cash Flows

For the year ended 31 December 2022

	Notes	Consolidated		Separate	
		financial statements		financial statements	
		2022	2021	2022	2021
		Baht	Baht	Baht	Baht
Cash flows from investing activities					
Restricted deposits at financial institutions (increase) decrease	11	38,023,349	(158,012,233)	-	-
Net cash received from sales of short-term investments		404,851	98,731	-	-
Net cash received from fixed asset disposal		1,582,700	-	-	-
Payments for addition investment in a direct subsidiary	16	-	-	(1,673,000,000)	(327,000,000)
Payments for short-term loans to a direct subsidiary	41 d)	-	-	(44,000,000)	-
Cash received from short-term loans from an indirect subsidiary		-	-	-	120,000,000
Cash received from dividend income from a direct subsidiary	41 b)	-	-	1,943,312,996	395,999,999
Payments for purchases of					
- Investment property	17	-	(65,833,040)	-	-
- Fixed assets		(1,769,321,192)	(1,776,115,783)	(467,904)	(3,771,390)
- Rights to service under a concession arrangement		(37,114,935)	-	-	-
- Intangible assets	22	(7,261,646)	(13,798,651)	(130,000)	-
Net cash generated from (used in) investing activities		(1,773,686,873)	(2,013,660,976)	225,715,092	185,228,609
Cash flows from financing activities					
Cash received from short-term loans from financial institutions	25	1,486,700,000	1,718,300,000	200,000,000	-
Payments on short-term loans from financial institutions	25	(1,304,700,000)	(1,769,100,000)	-	-
Payments on liabilities under lease liabilities	29	(2,770,128)	(1,471,381)	(1,242,906)	(1,008,877)
Interest expense from lease liabilities	38	(1,224,930)	(1,137,363)	(256,247)	(269,933)
Cash received from long-term loans from financial institutions	30	862,086,400	1,492,233,243	-	-
Payments on long-term loans from financial institutions	30	(742,091,290)	(597,524,093)	-	-
Payments on direct borrowing cost	30	(10,260,472)	(17,780,000)	(300,000)	-
Payments on finance costs - interest paid		(127,845,341)	(124,955,716)	(34,739)	-
Payments for treasury shares		(173,572,390)	-	(173,572,390)	-
Cash received from change in shareholding in indirect subsidiaries		-	27,500,000	-	-
Cash received from non-controlling interest from increase in share capital in an indirect subsidiary		6,930,000	10,010,000	-	-
Dividend paid to the Company's shareholders	26, 33	(203,362,321)	(183,206,383)	(203,362,321)	(183,206,383)
Net cash generated from (used in) financing activities		(210,110,472)	552,868,307	(178,768,603)	(184,485,193)
Net increase (decrease) in cash and cash equivalents		(461,644,144)	407,856,038	41,397,021	(8,814,317)
Cash and cash equivalents at the beginning of the year		890,748,583	482,892,545	4,755,328	13,569,645
Cash and cash equivalents at the end of the year	10	429,104,439	890,748,583	46,152,349	4,755,328
Non-cash transactions					
Payables from the purchases of fixed assets	26	16,013,718	33,601,743	-	-
Retentions - Fixed assets	26	1,108,094	33,931,505	-	-

The accompanying notes are an integral part of these consolidate and separate financial statements.

Notes to the Consolidated and Separate Financial Statements

For the year ended 31 December 2022

1 General information

Absolute Clean Energy Public Company Limited ("the Company") incorporates as a public limited company listed on the Stock Exchange of Thailand. The Company is incorporated and domiciled in Thailand.

The address of the Company's registered office is 140/6 ITF Tower 7th floor, Silom Road, Suriyawong, Bangrak, Bangkok.

For reporting purposes, the Company and its subsidiaries are referred to as "the Group".

The Group's principal business operations are operating biomass, municipal solid waste, natural gas, and solar energy power plants.

The Company's principal business operation is investing in Asia Clean Energy Company Limited at 100 percent. Asia Clean Energy Company Limited has invested in 19 subsidiaries as described in Note 16.

The consolidated and separate financial statements were approved by the Company's authorised directors on 28 February 2023.

2 Basis of preparation

The consolidated and separate financial statements have been prepared in accordance with Thai Financial Reporting Standards ("TFRS") and the financial reporting requirements issued under the Securities and Exchange Act.

The consolidated and separate financial statements have been prepared under the historical cost convention except as otherwise disclosed in the accounting policies.

The preparation of financial statements in conformity with TFRS requires management to use certain critical accounting estimates and to exercise its judgement in applying the Group's accounting policies. The areas involving a higher degree of judgement or complexity, or areas that are more likely to be materially adjusted due to changes in estimates and assumptions are disclosed in Note 7.

An English version of the consolidated and separate financial statements have been prepared from the statutory financial statements that are in the Thai language. In the event of a conflict or a difference in interpretation between the two languages, the Thai language statutory financial statements shall prevail.

3 New and amended financial reporting

3.1 New and amended financial reporting standards that are effective for accounting period beginning on or after 1 January 2022 and are relevant and have impacts to the Group

Certain amended financial reporting standards have been issued that are not mandatory for current reporting period and have not been early adopted by the Group.

Interest rate benchmark (IBOR) reform - phase 2, amendments to TFRS 9, TFRS 7 and TFRS 16 provide relief measures addressing issues that might affect financial reporting during the reform, including the effects of changes to contractual cash flows or hedging relationship arising from the replacement of one benchmark with an alternative benchmark.

Key relief measures of the phase 2 amendments are as follows:

- When changing the basis for determining contractual cash flows for financial assets and financial liabilities (including lease liabilities), changes that are necessary as a direct result of the IBOR reform and which are considered economically equivalent, will not result in an immediate gain or loss in the statement of income. TFRS 16 has also been amended to require lessees to use a similar practical expedient when accounting for lease modifications that change the basis for determining future lease payments as a result of the IBOR reform.
- Hedge accounting relief measures will allow most TFRS 9 hedge relationships that are directly affected by the IBOR reform to continue. However, additional ineffectiveness might need to be recorded.

Moreover, TFRS 7 requires additional disclosure about:

- The nature and extent of risks arising from the IBOR reform to which the entity is exposed to.
- How the entity manages those risks.
- The entity's progress in transitioning from the IBOR to alternative benchmark rates and how the entity is managing this transition.

The amended financial reporting standards do not have material impact on the Group.

Notes to the Consolidated and Separate Financial Statements

For the year ended 31 December 2022

3.2 New and amended financial reporting standards that are effective for accounting period beginning on or after 1 January 2023 and are relevant to the Group

Certain amended financial reporting standards have been issued that are not mandatory for current reporting period and have not been early adopted by the Group.

- a) **Amendment to TAS 16 - Property, plant and equipment** clarified to prohibit entities from deducting from the cost of an item of PP&E any proceeds received from selling any items produced while the entity is preparing that asset for its intended use.
- b) **Amendment to TAS 37 - Provisions, contingent liabilities and contingent assets** clarified that, in considering whether a contract is onerous, the direct costs of fulfilling a contract include both the incremental costs of fulfilling the contract and an allocation of other costs directly related to fulfilling the contract. Before recognising a separate provision for an onerous contract, the entity must recognise any impairment losses that have occurred on the assets used in fulfilling the contract.
- c) **Amendment to TFRS 3 - Business combinations** clarified some minor amendments to update its references to the Conceptual Framework for Financial Reporting and added a consideration for the recognition of liabilities and contingent liabilities acquired from business combinations. The amendments also confirmed that contingent assets shouldn't be recognised at the acquisition date.
- d) **Amendment to TFRS 9 - Financial Instruments** clarified which fees should be included in the 10% test for the derecognition of financial liabilities. It should only include fees between the borrower and lender.

The Group's management considered that the impact of adoption of these standards is not significant to the Group.

4 Accounting policies

4.1 Principles of consolidation

a) Subsidiaries

Subsidiaries are all entities over which the Group has control. The Group controls an entity when the Group is exposed to, or has rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity. Subsidiaries are consolidated from the date on which control is transferred to the Group until the date that control ceases.

In the separate financial statements, investments in subsidiaries are accounted for using cost method.

b) Changes in ownership interests

The Group treats transactions with non-controlling interests that do not result in a loss of control as transactions with equity owners of the Group. A difference between the amount of the adjustment to non-controlling interests to reflect their relative interest in the subsidiary and any consideration paid or received is recognised within equity.

c) Intercompany transactions on consolidation

Intra-group transactions, balances and unrealised gains on transactions are eliminated. Unrealised losses are also eliminated in the same manner unless the transaction provides evidence of an impairment of the asset transferred.

4.2 Business combination

The Group applies the acquisition method to account for business combinations with an exception on business combination under common control. The consideration transferred for the acquisition of a subsidiary comprises.

- fair value of the assets transferred,
- liabilities incurred to the former owners of the acquiree
- equity interests issued by the Group

Identifiable assets and liabilities acquired and contingent liabilities assumed in a business combination are measured initially at their fair values at the acquisition date.

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On an acquisition-by-acquisition basis, the Group initially recognises any non-controlling interest in the acquiree either at fair value or at the non-controlling interest's proportionate share of the acquiree's net assets.

The excess of the consideration transferred, the amount of any non-controlling interest recognised and the acquisition-date fair value of any previous equity interest in the acquiree (for business combination achieved in stages) over the fair value of the identifiable net assets acquired is recorded as goodwill. In the case of a bargain purchase, the difference is recognised directly in profit or loss.

Acquisition-related cost

Acquisition-related cost are recognised as expenses in consolidated financial statements

Step-up acquisition

If the business combination is achieved in stages, the acquisition date carrying value of the acquirer's previously held equity interest in the acquiree is re-measured to fair value at the acquisition date; any gains or losses arising from such re-measured are recognised in profit or loss.

Changes in fair value of contingent consideration paid/received

Subsequent changes to the fair value of the contingent consideration that is an asset or liability is recognised in profit or loss. Contingent consideration that is classified as equity is not re-measured.

Business combination under common control

The Group accounts for business combination under common control by measuring acquired assets and liabilities of the acquiree at their carrying values presented in the highest level of the consolidation. The Group retrospectively adjusted the business combination under common control transactions as if the combination had occurred on the later of the beginning of the preceding comparative period and the date the acquiree has become under common control.

Consideration of business combination under common control are the aggregated amount of fair value of assets transferred, liabilities incurred and equity instruments issued by the acquirer at the date of which the exchange in control occurs.

The difference between consideration under business combination under common control and the acquirer's interests in the carrying value of the acquiree is presented as "surplus arising from business combination under common control" in equity and is derecognised when the investment is disposed of by transferred to retained earnings.

4.3 Foreign currency translation

a) Functional and presentation currency

The financial statements are presented in Thai Baht, which is the Group's and the Company's functional and presentation currency.

b) Transactions and balances

Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions.

Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year-end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognised in the profit or loss.

When a gain or loss on a non-monetary item is recognised in other comprehensive income, any exchange component of that gain or loss is recognised in other comprehensive income. Conversely, when a gain or loss on a non-monetary item is recognised in profit and loss, any exchange component of that gain or loss is recognised in profit and loss.

4.4 Cash and cash equivalents

In the consolidated and separate statements of cash flows, cash and cash equivalents includes cash on hand, cheque on hand, deposits held at call with banks, other short-term highly liquid investments with original maturities of three months or less from date of acquisition and are not used as collateral.

In the consolidated and separate statements of financial position, bank overdrafts are shown in current liabilities.

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4.5 Trade accounts receivable

Trade receivables are amounts due from customers for goods sold or services performed in the ordinary course of business. They are generally due for settlement within 30 days and therefore are all classified as current.

Trade receivables are recognised initially at the amount of consideration that is unconditional unless they contain significant financing components, they are recognised at fair value. The Group holds the trade receivables with the objective to collect the contractual cash flows and therefore measures them subsequently at amortised cost.

The impairment of trade receivables are disclosed in Note 4.7 g).

4.6 Inventories

Inventories comprise of fuel raw materials, consumable materials and spare parts which are stated at cost less allowance for slow-moving and obsolete inventories.

Cost is determined by the weighted average method. The cost of purchase comprises both the purchase price and costs directly attributable to the acquisition of inventory, such as import duties and transportation charges, less all attributable discounts. Allowance is made, where necessary for slow-moving and obsolete inventories which recognised as cost of sales.

4.7 Financial asset

a) Classification

The Group classifies its debt instrument financial assets in the following measurement categories depending on a) business model for managing the asset and b) the cash flow characteristics of the asset whether they represent solely payments of principal and interest (SPPI) as follows.

- those to be measured subsequently at fair value (either through other comprehensive income or through profit or loss); and
- those to be measured at amortised cost.

The Group reclassifies debt investments when and only when its business model for managing those assets changes.

For investments in equity instruments, the Group has an irrevocable election at the time of initial recognition to account for the equity investment at fair value through profit or loss (FVPL) or at fair value through other comprehensive income (FVOCI) except those that are held for trading, they are measured at FVPL.

b) Recognition and derecognition

Regular way purchases, acquires and sales of financial assets are recognised on trade-date, the date on which the Group commits to purchase or sell the asset. Financial assets are derecognised when the rights to receive cash flows from the financial assets have expired or have been transferred and the Group has transferred substantially all the risks and rewards of ownership.

c) Measurement

At initial recognition, the Group measures a financial asset at its fair value plus, in the case of a financial asset not at FVPL, transaction costs that are directly attributable to the acquisition of the financial asset. Transaction costs of financial assets carried at FVPL are expensed in profit or loss.

Financial assets with embedded derivatives are considered in their entirety when determining whether the cash flows are solely payment of principal and interest (SPPI).

d) Debt instruments

Subsequent measurement of debt instruments depends on the Group's business model for managing the asset and the cash flow characteristics of the financial assets. There are three measurement categories into which the Group classifies its debt instruments:

- Amortised cost: Financial assets that are held for collection of contractual cash flows where those cash flows represent solely payments of principal and interest are measured at amortised cost. Interest income from these financial assets is included in other income using the effective interest rate method. Any gain or loss arising on derecognition is recognised directly in profit or loss and presented in other gains/(losses) together with foreign exchange gains and losses. Impairment losses are presented as a separate line item in the statement of comprehensive income.

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- FVOCI: Financial assets that are held for a) collection of contractual cash flows which comprises of only principal and interest; and b) for selling the financial assets, where the assets' cash flows represent solely payments of principal and interest, are measured at FVOCI. Movements in the carrying amount are taken through other comprehensive income (OCI), except a) for the recognition of impairment gains or losses b) interest income using the effective interest method, and c) foreign exchange gains and losses which are recognised in profit or loss. When the financial assets is derecognised, the cumulative gain or loss previously recognised in OCI is reclassified from equity to profit or loss and recognised in other gains/(losses). Interest income is included in other income. Impairment expenses are presented separately in the statement of comprehensive income.
- FVPL: Financial assets that do not meet the criteria for amortised cost or FVOCI are measured at FVPL. A gain or loss on a debt investment that is subsequently measured at FVPL is recognised in profit or loss and presented net within other gains/(losses) in the period in which it arises.

e) Equity instruments

The Group measures all equity investments at fair value. Where the Group has elected to present fair value gains and losses on equity instruments in OCI, there is no subsequent reclassification of fair value gains and losses to profit or loss following the derecognition of the investment. Dividends from such investments continue to be recognised in profit or loss as dividend income when the right to receive payments is established.

Changes in the fair value of financial assets at FVPL are recognised in other gains/(losses) in the statement of comprehensive income.

Impairment losses (and reversal of impairment losses) on equity investments are reported together with changes in fair value.

f) Derivatives

Derivatives are initially recognised at fair value on the date a derivative contract is entered and are subsequently measured to their fair value at the end of each reporting period. The changes in the fair value is recognised to other gains (losses).

g) Impairment

The Group assesses on a forward looking basis the expected credit loss associated with its debt instruments carried at amortised cost and FVOCI. The impairment methodology applied depends on whether there has been a significant increase in credit risk.

For trade receivables, the Group applies the simplified approach, which requires expected lifetime losses to be recognised from initial recognition of the receivables which the adoption of this financial reporting standard does not have a significant impact to the Group.

4.8 Investment property

Property that is held for long-term rental yields or for capital appreciation or both, and that is not occupied by the Group, is classified as investment property. Investment property also includes property that is being constructed or developed for future use as investment property.

The Group's investment property is land held for rental yield and land which is currently undetermined future use.

Investment property is measured initially at its cost, including related transaction costs.

After initial recognition, investment property is carried at cost less any accumulated depreciation and any accumulated impairment losses.

Land is not depreciated.

Subsequent expenditure is capitalised to the asset's carrying amount only when it is probable that future economic benefits associated with the expenditure will flow to the Group and the cost of the item can be measured reliably. All other repairs and maintenance costs are expensed when incurred. When part of an investment property is replaced, the carrying amount of the replaced part is derecognised.

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4.9 Property, plant and equipment

Property, plant and equipment are stated at historical cost less accumulated depreciation and provision for impairment of assets. Initial cost included purchase price, both cash and cash equivalent cash price, and other direct cost related to assets acquisition to be located or get ready of their intended use.

Subsequent costs are included in the asset's carrying amount or recognised as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the Group and the cost of the item can be measured reliably. The carrying amount of the replaced part is derecognised. All other repairs and maintenance are charged to profit or loss during the financial period in which they are incurred.

Land and land not used in operation has not been depreciated. Depreciation of other assets is calculated using the straight-line method to allocate their cost of each asset to their residual value over the estimate useful lives as follows:

Land improvement	5 - 25 years
Building and building improvement - Power plant	5 - 25 years
Building and building improvement - Office	5 - 20 years
Machinery and equipment	4 - 25 years
Tool and equipment	3 - 10 years
Office equipment, furniture and fixture	3 - 5 years
Vehicle	5 years

The assets' residual values and useful lives are reviewed, and adjusted if appropriate, at the end of each reporting period.

The asset's carrying amount is written-down immediately to its recoverable amount if the asset's carrying amount is greater than its estimated recoverable amount (Note 4.12).

Gains and losses on disposal of property, plant and equipment are determined by comparing the proceeds with the carrying amount and are recognised within 'other gains/(losses) - net' in profit or loss.

4.10 Service concession arrangements

Service concession arrangements are arrangements between government (the grantor) and a private sector entity (an operator) which involve the operator constructing the infrastructure used to provide the public service or upgrading it, operating and maintaining that infrastructure for a specified period of time. The operator is paid for its services over the period of the arrangement. The grantor controls or regulates that services that the operator must provide with the infrastructure, to whom it must provide them, and service fee and the grantor control-through ownership, beneficial entitlement or otherwise - any significant residual interest in the infrastructure at the end of the term of the arrangement.

If the Group as the operator provides construction or upgrade services, revenue and costs relating to construction or upgrade services shall be accounted for based on the stage of completion on the construction contract. The consideration received or receivable by the operator shall be recognised at its fair value of a financial asset or an intangible asset.

The Group shall recognise financial assets to extent that it has an unconditional contractual right to receive cash or another financial asset from or at the direction of the grantor for the construction services and recognise an intangible asset to the extent that it receives a right (a licence) to charge users of the public service. A right to charge users of the public service is not an unconditional right to receive cash because the amounts are contingent on the extent that the public uses the service. If the operator is paid for the construction services partly by a financial asset and partly by an intangible asset it is necessary to account separately for each component of the operator's consideration. Revenue and costs relating to operation services shall be recognised when service is provided by reference to the contract term.

Contractual obligations to maintain or restore infrastructure, except for any upgrade element shall be recognised and measured at the best estimate of expenditure that would be required to settle the present obligation at the end of the reporting period.

Currently, the Group has recognised service concession arrangements as intangible assets (Note 4.11 and Note 19).

4.11 Intangible assets

Rights to service under concession arrangements

Rights to service under concession arrangements is the rights obtained from the concession arrangement to provide waste management service and to convert solid waste into electrical energy. According to accounting policy no. 4.10, rights to service under concession arrangements is amortised as expense in statement of comprehensive income using straight-line method throughout the period of 20 - 25 years specified in the contract.

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Rights to use transmission line

Rights to use transmission line is cost paid to acquire the rights to use transmissions.

Rights to use transmission line is stated at historical cost less accumulated amortisation. Amortisation is calculated using straight-line method over contract period of 20 to 25 years.

Rights to use gas pipe

Rights to use gas pipe are expenses paid in order to acquire the rights to use gas pipe.

Rights to use gas pipe is stated at historical cost less accumulated amortisation. Amortisation is calculated using straight-line method over contract period of 25 years.

Rights to use water pipe

Rights to use water pipe are expenses paid in order to acquire the rights to use water pipe.

Rights to use water pipe is stated at historical cost less accumulated amortisation. Amortisation is calculated using straight-line method over contract period of 25 years.

Computer software

Computer software is recognised as intangible asset and is amortised over their estimated useful lives, which does not exceed 3 to 10 years.

4.12 Impairment of assets

Assets that have an indefinite useful life, are not subject to amortisation and are tested annually for impairment. Assets that are subject to amortisation are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognised for the amount by which the carrying amount of the assets exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs to sell or value in use. For the purposes of assessing impairment, assets are grouped at the lowest level for which there are separately identifiable cash flows. Non-financial assets other than goodwill that suffered an impairment are reviewed for possible reversal of the impairment at each reporting date.

4.13 Accounting for long-term leases

Leases - where the Group is the lessee

Leases are recognised as a right-of-use asset and a corresponding liability at the date at which the leased asset is available for use by the Group. Each lease payment is allocated between the liability and finance cost. The finance cost is charged to profit or loss over the lease period so as to produce a constant periodic rate of interest on the remaining balance of the liability for each period. The right-of-use asset is depreciated over the shorter of the asset's useful life and the lease term on a straight-line basis.

Contracts may contain both lease and non-lease components. The Group allocates the consideration in the contract to the lease and non-lease components based on their relative stand-alone prices. However, for leases of real estate for which the group is a lessee, it has elected not to separate lease and non-lease components and instead accounts for these as a single lease component.

Assets and liabilities arising from a lease are initially measured on a present value basis. Lease liabilities include the net present value of the following lease payments:

- fixed payments (including in-substance fixed payments), less any lease incentives receivable
- variable lease payment that are based on an index or a rate
- amounts expected to be payable by the lessee under residual value guarantees
- the exercise price of a purchase option if the lessee is reasonably certain to exercise that option, and
- payments of penalties for terminating the lease, if the lease term reflects the lessee exercising that option.

Lease payments to be made under reasonably certain extension options are also included in the measurement of the liability.

The lease payments are discounted using the interest rate implicit in the lease. If that rate cannot be determined, the lessee's incremental borrowing rate is used, being the rate that the lessee would have to pay to borrow the funds necessary to obtain an asset of similar value in a similar economic environment with similar terms and conditions.

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Right-of-use assets are measured at cost comprising the following:

- the amount of the initial measurement of lease liability
- any lease payments made at or before the commencement date less any lease incentives received
- any initial direct costs, and
- restoration costs.

Payments associated with short-term leases and leases of low-value assets are recognised on a straight-line basis as an expense in profit or loss. Short-term leases are leases with a lease term of 12 months or less. Low-value assets comprise small items of office furniture.

Leases - where the Group is the lessor

When assets are leased out under a finance lease, the present value of the lease payments is recognised as a receivable. The difference between the gross receivable and the present value of the receivable is recognised as unearned finance income. Lease income is recognised over the term of the lease which reflects a constant periodic rate of return. Initial direct costs are included in initial measurement of the finance lease receivable and reduce the amount of income recognised over the lease term.

Rental income under operating leases (net of any incentives given to lessees) is recognised on a straight-line basis over the lease term. Initial direct costs incurred in obtaining an operating lease are added to the carrying amount of the underlying asset and recognised as expense over the lease term on the same basis as lease income. The respective leased assets are included in the statement of financial position based on their nature.

4.14 Financial liabilities

a) Classification

Financial instruments issued by the Group are classified as either financial liabilities or equity securities by considering contractual obligations.

- Where the Group has an unconditional contractual obligation to deliver cash or another financial asset to another entity, it is considered a financial liability unless there is a predetermined or possible settlement for a fixed amount of cash in exchange of a fixed number of the Group's own equity instruments.
- Where the Group has no contractual obligation or has an unconditional right to avoid delivering cash or another financial asset in settlement of the obligation, it is considered an equity instrument.

Borrowings are classified as current liabilities unless the Group has an unconditional right to defer settlement of the liability for at least 12 months after the reporting date.

b) Measurement

Financial liabilities are initially recognised at fair value and are subsequently measured at amortised cost.

c) Derecognition and modification

Financial liabilities are derecognised when the obligation specified in the contract is discharged, cancelled, or expired.

Where the terms of a financial liability are renegotiated/modified, the Group assesses whether the renegotiation/modification results in the derecognition of that financial liability. Where the modification results in an extinguishment, the new financial liability is recognised based on fair value of its obligation. The remaining carrying amount of financial liability is derecognised. The difference as well as proceed paid is recognised as other gains/(losses) in profit or loss.

Where the modification does not result in the derecognition of the financial liability, the carrying amount of the financial liability is recalculated as the present value of the renegotiated/modified contractual cash flows discounted at its original effective interest rate. The difference is recognised in other gains/(losses) in profit or loss.

4.15 Borrowing costs

General and specific borrowing costs directly attributable to the acquisition, construction or production of qualifying assets, which are assets that necessarily take a substantial period of time to get ready for their intended use or sale, are added to the cost of those assets, until such time as the assets are substantially ready for their intended use or sale.

Investment income earned on the temporary investment of specific borrowings pending their expenditure on qualifying assets is deducted from the borrowing costs eligible for capitalisation.

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All other borrowing costs are recognised as expense in the period in which they are incurred.

The capitalisation rate used to determine the amount of borrowing cost to be capitalised is a weighted average interest rate applicable to the outstanding borrowings during the year. Where funds are borrowed specifically for the acquisition, construction or production of assets, the amount of borrowing costs eligible for capitalisation on the asset is determined at the actual borrowing cost incurred on the borrowing during the period less any investment income on the temporary investments of those borrowings.

4.16 Current and deferred income taxes

The tax expense for the period comprises current and deferred tax. Tax is recognised in profit or loss, except to the extent that it relates to items recognised in other comprehensive income or directly in equity.

Current tax

The current income tax is calculated on the basis of the tax laws enacted or substantively enacted at the end of the reporting period. Management periodically evaluates positions taken in tax returns with respect to situations in which applicable tax regulation is subject to interpretation. It establishes provisions where appropriate on the basis of amounts expected to be paid to the tax authorities.

Deferred income tax

Deferred income tax is recognised on temporary differences arising from differences between the tax base of assets and liabilities and their carrying amounts in the financial statements. However, deferred income tax is not recognised for temporary differences arise from:

- initial recognition of an asset or liability in a transaction other than a business combination that affects neither accounting nor taxable profit or loss is not recognised
- investments in subsidiaries, associates and joint arrangements where the timing of the reversal of the temporary difference is controlled by the Group and it is probable that the temporary difference will not reverse in the foreseeable future.

Deferred income tax is measured using tax rates of the period in which temporary difference is expected to be reversed, based on tax rates and laws that have been enacted or substantially enacted by the end of the reporting period.

Deferred tax assets are recognised only to the extent that it is probable that future taxable profit will be available against which the temporary differences can be utilised.

Deferred tax assets and liabilities are offset when there is a legally enforceable right to offset current tax assets and liabilities and when the deferred tax balances relate to the same taxation authority. Current tax assets and tax liabilities are offset where the entity has a legally enforceable right to offset and intends either to settle on a net basis, or to realise the asset and settle the liability simultaneously.

4.17 Employee benefits

a) Post-employment

The Group's employee benefits are in a form of defined benefit plans.

Retirement benefits

A defined benefit plan is a retirement plan that is not a defined contribution plan. Typically defined benefit plans define an amount of retirement benefit that an employee will receive on retirement, usually depends on one or more factors such as age, years of service and compensation.

The liability recognised in the statement of financial position in respect of defined benefit pension plans is the present value of the defined benefit obligation at the end of the reporting period. The defined benefit obligation is calculated by independent actuaries using the projected unit credit method. The present value of the defined benefit obligation is determined by discounting the estimated future cash outflows using market yield of government bonds that are denominated in the currency in which the benefits will be paid, and that have terms to maturity approximating to the terms of the related retirement liability.

Remeasurement gains and losses arising from experience adjustments and changes in actuarial assumptions are charged or credited to equity in other comprehensive income in the period in which they arise.

Past-service costs are recognised immediately in profit or loss.

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b) Contribution - provident fund

The Group has set up a provident fund in accordance with the Provident Fund Act B.E. 2530, and registered its membership with a mutual fund. The Ministry of Finance approved the registration of the provident fund on 19 July 2018. The fund's assets are separate from the Group's assets and are managed by a fund manager.

According to the provident fund policy, employees contribute 2% of their salaries and the Group will contribute another 2% of employees' salaries to the provident fund. The Group appointed the licensed fund manager to manage the provident fund in accordance with the Ministerial Regulation No. 2 issued under the Provident Fund Act B.E. 2530.

The Group's contributions to the provident fund are recorded as expenses in the statement of comprehensive income for the period.

c) Short-term employee benefits

Liabilities for short-term employee benefits such as wages, salaries, paid annual leave and paid sick leave, profit-sharing and bonuses, and medical care that are expected to be settled wholly within 12 months after the end of the period are recognised in respect of employees' service up to the end of the reporting period. They are measured at the amount expected to be paid.

4.18 Provisions

Provision for power plant maintenance under concession arrangement and other provisions are recognised when the Group has a present legal or constructive obligation as a result of past events; it is probable that an outflow of resources will be required to settle the obligation; and the amount has been reliably estimated.

Provisions are measured at the present value of the expenditures expected to be required to settle the obligation. The increase in the provision due to passage of time is recognised as interest expense.

Provisions exclude the provisions for employee benefits. The accounting policy for employee benefit is mentioned in Note 4.17.

4.19 Share capital

Ordinary shares with discretionary dividends are classified as equity.

Incremental costs directly attributable to the issue of new shares or options are shown in equity as a deduction, net of tax, from the proceeds.

4.20 Revenue recognition

Revenue are recorded net of value added tax. They are recognised in accordance with the provision of goods or services, provided that collectability of the consideration is probable.

Multiple element arrangements involving delivery or provision of multiple products or services are separated into distinct performance obligations. Total transaction price of the bundled contract is allocated to each performance obligation based on their relative standalone selling prices or estimated standalone selling prices. Each performance obligation is recognised as revenue on fulfilment of the obligation to the customer as details below.

Revenue from sales of electricity

(a) Revenue under the PPA which are not classified as lease

- Energy Payments are recognised at a point in time when the controls over the products are transferred to the customers at destinations as stated in the agreements. The revenue from Energy Payments are recognised based on transaction price net of output tax, rebates and discounts.

(b) Revenue under the Power Purchase Agreements which are classified as lease

- Finance lease income under the Power Purchase Agreements is recognized on an effective interest method over the period of the agreements, adjusted with change in accounting estimate from a reduction in cash flow which fluctuates with other factors such as production units.
- Service income under the finance lease agreements related to the Power Purchase Agreements is recognized when the service has been rendered. Service income comprises of Energy Payments received from receivables under finance lease related to the Power Purchase Agreements.

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Revenue from sales of steam

Revenue from sales of steam is recognised at a point in time when the controls over the products are transferred to customers at destinations as stated in the agreements. The revenue are recognised based on transaction price net of output tax, rebates and discounts.

Revenue from rendering of services

- The Group recognises revenue from rendering services at a point in time when services are performed for a customer that satisfy a performance obligation. This includes revenue from waste management services.
- The Group recognises revenue from rendering services over time when services are performed for a customer that satisfy a performance obligation. This includes revenue from construction under concession arrangement.

Other income recognised in accordance with the criteria as follows:

- Management income is recognised based on accrual basis under the relevant contracts
- Interest income is recognised using the effective interest rate method
- Rental income is recognised on a straight-line basis over the rental contract period
- Dividend income is recognised when the right to receive payment is established
- Other income is recognised as risk and reward is transferred

4.21 Finance costs

Finance costs comprise interest expense from loan from financial institutions, loans from related parties, amortisation of direct cost related to loans, interest expense from liabilities under lease liabilities and commitment fee.

4.22 Dividend distribution

Dividend distribution to the Company's shareholders is recognised as a liability in the Group's financial statements in the period in which the dividends and interim dividend are approved by the Board of Directors.

4.23 Financial guarantee contracts

Financial guarantee contracts are recognised as a financial liability at the time the guarantee is issued. The liability is initially measured at fair value and subsequently at the higher of:

- The amount determined in accordance with the expected credit loss model under TFRS 9; and
- The amount initially recognised less the cumulative amount of income recognised in accordance with the principles of TFRS 15.

The fair value of financial guarantees is determined based on the present value of the difference in cash flows between a) the contractual payments required under the debt instrument; and b) the payments that would be required without the guarantee, or the estimated amount that would be payable to a third party for assuming the obligations.

Where guarantees in relation to loans or other payables of associates are provided for no compensation, the fair values are accounted for as contributions and recognised as part of the cost of the investment.

4.24 Segment reporting

Operating segments are reported in a manner consistent with the internal reporting provided to the chief operating decision-maker. The chief operating decision-maker, who is responsible for allocating resources and assessing performance of the operating segments, has been identified as Board of Directors that makes strategic decisions.

The Group carried out the operation only in Thailand, information is only presented according the operating segment.

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5 Financial risk management

Financial risk factors

The Group exposes to a variety of financial risk: market risk (including foreign exchange risk, interest rate risk and price risk), credit risk and liquidity risk. The Group's overall risk management programme focuses on the unpredictability of financial markets and seeks to minimise potential adverse effects on the Group's financial performance. The Group uses derivative financial instruments to hedge certain exposures.

Financial risk management is carried out by the Group. The Group's policy includes areas such as foreign exchange risk, interest rate risk, price risk, credit risk and liquidity risk. The framework parameters are approved by the Board of Directors and uses as the key communication and control tools for the Group.

5.1 Market risk

a) Foreign exchange risk

The operation of the Group is subject to foreign exchange risk from various currencies since the Group purchased and imported most of the machines from overseas. Most transactions are carried in US dollars. The Group protects this foreign exchange risk by entering into foreign currency forward contracts (Note 42.4). However, as at 31 December 2022, the Group has no account payables in foreign currency. For local sales, most transactions are in Thai Baht and are not subject to foreign exchange rate risk except the foreign exchange risk from receivable under finance lease agreement from EGAT (Note 13). A component of this agreement is denominated in foreign currency. This foreign exchange risk arises from a change in foreign exchange rate used to calculate the monthly capacity payment due from EGAT. As at 31 December 2022, The Group had receivable under finance lease agreement of US Dollars 43.0 million, equivalent to Baht 1,478.7 million (2021 : US Dollars 43.5 million, equivalent to Baht 1,446.5 million) which if the exchange rate has increased or decreased by 3%, it will affect to receivable under finance lease agreement in amount of Baht 44.4 million (2021 : Baht 43.4 million).

b) Interest rate risk

Since the Group has no interest bearing assets with significant value, income and cash flow from operating activities of the Group are not affected by interest rate fluctuation.

However, the Group has a risk of interest rate fluctuation that may happen in the future, since the Group mostly has long-term loans from financial institution which directors estimate that the interest rate risk will not affect the Group. Plus, the Group has a plan to change the term of loan agreement or find new source of financing that provides low interest burden to compensate for existing loan.

5.2 Credit risk

Credit risk arises from cash and cash equivalents, as well as credit exposures to customers, including outstanding receivables.

a) Risk management

Credit risk is managed on a group basis. For banks and financial institutions, only independently rated parties with a minimum rating of 'A' are accepted.

If customers are independently rated, these ratings are used. Otherwise, if there is no independent rating, risk control assesses the credit quality of the customer, taking into account its financial position, past experience and other factors. Individual risk limits are set based on internal or external ratings in accordance with limits set by the board. The compliance with credit limits by customers is regularly monitored by line management.

b) Impairment of financial assets

The Group and the Company has 2 types of financial assets that are subject to the expected credit loss model:

- Trade and other receivables
- Short-term loan to indirect subsidiaries

While cash and cash equivalents are also subject to the impairment requirements of TFRS 9, the identified impairment loss was immaterial.

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Trade receivables and other receivables

The Group applies the TFRS 9 simplified approach to measure expected credit losses which uses a lifetime expected loss allowance for all trade receivables and contract assets.

To measure the expected credit losses, trade receivables and contract assets have been grouped based on shared credit risk characteristics and the days past due. The contract assets relate to unbilled work in progress and have substantially the same risk characteristics as the trade receivables for the same types of contracts. The Group has therefore concluded that the expected loss rates for trade receivables are a reasonable approximation of the loss rates for the contract assets

Short-term loans to indirect subsidiaries

Short-term loans to indirect subsidiaries measured at amortised cost are considered to have low credit risk, and the loss allowance recognised during the year was therefore limited to 12 months expected losses. Lifetime expected credit losses is recognised for the loans that the credit risk is significant increased.

Financial asset measured at fair value through profit or loss (FVPL)

The Group is also exposed to credit risk in relation to debt investments that are measured at fair value through profit or loss (FVPL). The maximum exposure at the end of the reporting period is the carrying amount of these investments.

5.3 Liquidity risk

Prudent liquidity risk management implies maintaining sufficient cash and cash equivalent, the availability of funding through an adequate amount of committed credit facilities, and the ability to close out market positions. Due to the dynamic nature of the underlying business, the Group Treasury aims at maintaining flexibility in funding by keeping committed credit lines available.

Liquidity risk might increase if the customer has not repaid the debt to the Group on time. To control the level of liquidity risk, the Group has assessed the customer credit ability intermittently.

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Outstanding balances of financial assets, financial liabilities, interest rates and contractual undiscounted amount of financial liabilities as at 31 December 2022 and 2021 are as follows:

	Carrying amounts of assets/liabilities				Consolidated financial statements					Contractual undiscounted amounts of financial liabilities			
	Carrying amounts of assets/liabilities				Carrying amounts of assets/liabilities					Contractual undiscounted amounts of financial liabilities			
	Within 1 year Baht	1-5 years Baht	Over 5 years Baht	Total Baht	Fixed interest rate Baht	Floating interest rate Baht	Non-interest bearing rate Baht	Total Baht	Interest rate %	Within 1 year Baht	1-5 years Baht	Over 5 years Baht	Total Baht
As at 31 December 2021													
Financial assets													
Cash and cash equivalents	890,748,583	-	-	890,748,583	-	889,912,653	835,930	890,748,583	0.05 to 0.13				
Trade and other receivables	1,042,713,944	-	-	1,042,713,944	-	-	1,042,713,944	1,042,713,944	-				
Restricted deposits at financial institutions	435,613,863	-	-	435,613,863	-	435,613,863	-	435,613,863	0.05 to 0.50				
Receivable under finance lease (net)	110,073,198	191,631,867	3,083,453,239	3,385,158,304	3,385,158,304	-	-	3,385,158,304	12.60				
Total financial assets	2,479,149,588	191,631,867	3,083,453,239	5,754,234,694	3,385,158,304	1,325,526,516	1,043,549,874	5,754,234,694					
Financial liabilities													
Short-term loans from financial institutions	214,500,000	-	-	214,500,000	-	214,500,000	-	214,500,000	MLR - 2.50	214,500,000	-	-	214,500,000
Trade and other payables	327,703,101	-	-	327,703,101	-	-	327,703,101	327,703,101	-	327,703,101	-	-	327,703,101
Lease liabilities (net)	1,662,838	8,657,357	16,247,704	26,567,899	26,567,899	-	-	26,567,899	4.25 to 4.53	2,405,030	12,145,517	23,207,114	37,757,661
Long-term loans from financial institutions	702,118,152	2,076,939,196	1,759,996,629	4,539,053,977	-	4,539,053,977	-	4,539,053,977	2.75 to MLR - 2.50				
- Cash outflows of loans principal										706,091,291	2,098,395,099	1,849,675,788	4,654,162,178
- Cash outflows of interest										136,172,962	391,376,941	245,229,798	772,779,701
Total financial liabilities that are not derivatives	1,245,984,091	2,085,596,553	1,776,244,333	5,107,824,977	26,567,899	4,753,553,977	327,703,101	5,107,824,977		1,386,872,384	2,501,917,557	2,118,112,700	6,006,902,641
Derivative financial instruments													
(Cash inflows)/from forward contract	(15,829,018)	-	-	(15,829,018)	-	-	-	-		(15,829,018)	-	-	(15,829,018)
Cash outflows from forward contract	15,724,420	-	-	15,724,420	-	-	-	-		15,724,420	-	-	15,724,420
Total derivatives	(104,598)	-	-	(104,598)	-	-	-	-		(104,598)	-	-	(104,598)
Total financial liabilities	1,245,879,493	2,085,596,553	1,776,244,333	5,107,720,379	26,567,899	4,753,553,977	327,703,101	5,107,824,977		1,386,767,786	2,501,917,557	2,118,112,700	6,006,798,043

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	Consolidated financial statements										Contractual undiscounted amounts of financial liabilities			
	Carrying amounts of assets/liabilities				Carrying amounts of assets/liabilities									
	Within 1 year Baht	1-5 years Baht	Over 5 years Baht	Total Baht	Fixed interest rate Baht	Floating interest rate Baht	Non-interest bearing rate Baht	Total Baht	Interest rate %	Within 1 year Baht	1-5 years Baht	Over 5 years Baht	Total Baht	
As at 31 December 2022														
Financial assets														
Cash and cash equivalents	429,104,439	-	-	429,104,439	-	428,360,571	743,868	429,104,439	0.25 to 0.38					
Trade and other receivables	1,399,962,812	-	-	1,399,962,812	-	-	1,399,962,812	1,399,962,812	-					
Restricted deposits at financial institutions	397,590,514	-	-	397,590,514	-	397,590,514	-	397,590,514	0.25 to 0.50					
Receivable under finance lease (net)	116,976,350	220,855,971	3,063,131,850	3,400,964,171	3,400,964,171	-	-	3,400,964,171	12.60					
Total financial assets	2,343,634,115	220,855,971	3,063,131,850	5,627,621,936	3,400,964,171	825,951,085	1,400,706,680	5,627,621,936						
Financial liabilities														
Short-term loans from financial institutions	396,202,466	-	-	396,202,466	-	396,202,466	-	396,202,466	3.20 to MLR - 2.50	396,202,466	-	-	396,202,466	
Trade and other payables	502,154,769	-	-	502,154,769	-	-	502,154,769	502,154,769	-	502,154,769	-	-	502,154,769	
Lease liabilities (net)	3,189,070	14,167,129	16,113,965	33,470,164	33,470,164	-	-	33,470,164	2.50 to 4.53	4,321,826	17,453,309	22,511,777	44,286,912	
Long-term loans from financial institutions	795,041,768	2,115,710,956	1,734,427,400	4,645,180,124	-	4,645,180,124	-	4,645,180,124	2.50 to 4.35					
Long-term loans from financial institutions														
- Cash outflows of loans principal										799,148,143	2,153,268,545	1,751,740,600	4,704,157,288	
- Cash outflows of interest										138,808,494	425,699,440	190,620,731	755,128,665	
Total financial liabilities that are not derivatives	1,696,588,073	2,129,878,085	1,750,541,365	5,577,007,523	33,470,164	5,041,382,590	502,154,769	5,577,007,523		1,840,635,698	2,596,421,294	1,964,873,108	6,401,930,100	
Derivative financial instruments														
(Cash inflows)/from forward contract	(143,351,550)	-	-	(143,351,550)	-	-	-	-		(143,351,550)	-	-	(143,351,550)	
Cash outflows from forward contract	141,905,586	-	-	141,905,586	-	-	-	-		141,905,586	-	-	141,905,586	
Total derivatives	(1,445,964)	-	-	(1,445,964)	-	-	-	-		(1,445,964)	-	-	(1,445,964)	
Total financial liabilities	1,695,142,109	2,129,878,085	1,750,541,365	5,575,561,559	33,470,164	5,041,382,590	502,154,769	5,577,007,523		1,839,189,734	2,596,421,294	1,964,873,108	6,400,484,136	

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	Separate financial statements										Contractual undiscounted amounts of financial liabilities			
	Carrying amounts of assets/liabilities				Carrying amounts of assets/liabilities									
	Within 1 year Baht	1-5 years Baht	Over 5 years Baht	Total Baht	Fixed interest rate Baht	Floating interest rate Baht	Non-interest bearing rate Baht	Total Baht	Interest rate %	Within 1 year Baht	1-5 years Baht	Over 5 years Baht	Total Baht	
As at 31 December 2021														
Financial assets														
Cash and cash equivalents	4,755,328	-	-	4,755,328	-	4,552,438	202,890	4,755,328	0.05					
Trade and other receivables	300,047	-	-	300,047	-	-	300,047	300,047	-					
Total financial assets	5,055,375	-	-	5,055,375	-	4,552,438	502,937	5,055,375						
Financial liabilities														
Trade and other payables	8,536,895	-	-	8,536,895	-	-	8,536,895	8,536,895	-	8,536,895	-	-	8,536,895	
Lease liabilities (net)	1,239,906	5,405,113	-	6,645,019	6,645,019	-	-	6,645,019	4.25	1,510,654	5,855,786	-	7,366,440	
Total financial liabilities that are not derivatives	9,776,801	5,405,113	-	15,181,914	6,645,019	-	8,536,895	15,181,914		10,047,549	5,855,786	-	15,903,335	
	Separate financial statements										Contractual undiscounted amounts of financial liabilities			
	Carrying amounts of assets/liabilities				Carrying amounts of assets/liabilities									
	Within 1 year Baht	1-5 years Baht	Over 5 years Baht	Total Baht	Fixed interest rate Baht	Floating interest rate Baht	Non-interest bearing rate Baht	Total Baht	Interest rate %	Within 1 year Baht	1-5 years Baht	Over 5 years Baht	Total Baht	
As at 31 December 2022														
Financial assets														
Cash and cash equivalents	46,152,349	-	-	46,152,349	-	45,804,847	347,502	46,152,349	0.25					
Trade and other receivables	14,222	-	-	14,222	-	-	14,222	14,222	-					
Short-term loan to an indirect subsidiary	44,000,000	-	-	44,000,000	44,000,000	-	-	44,000,000	3.40					
Total financial assets	90,166,571	-	-	90,166,571	44,000,000	45,804,847	361,724	90,166,571						
Financial liabilities														
Short-term loans from financial institutions	199,702,466	-	-	199,702,466	199,702,466	-	-	199,702,466	3.20	199,702,466	-	-	199,702,466	
Trade and other payables	104,553,001	-	-	104,553,001	-	-	104,553,001	104,553,001	-	104,553,001	-	-	104,553,001	
Lease liabilities (net)	1,293,789	4,108,324	-	5,402,113	5,402,113	-	-	5,402,113	4.25	1,507,654	4,359,633	-	5,867,287	
Total financial liabilities that are not derivatives	305,549,256	4,108,324	-	309,657,580	205,104,579	-	104,553,001	309,657,580		305,763,121	4,359,633	-	310,122,754	

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6 Fair value

The Group presents financial assets and liabilities that are measured at fair value in each level including fair value of financial assets and financial liabilities, excluding financial assets and liabilities measured at amortised cost where their carrying value approximated fair value, as follows:

Consolidated financial statement	Separate financial statement
Financial assets	Financial assets
- Cash and cash equivalents	- Cash and cash equivalents
- Restricted deposits at financial institutions	- Trade and other receivables
- Trade and other receivables	- Short-term loan to an indirect subsidiary
- Receivable under finance lease	
Financial liabilities	Financial liabilities
- Short-term loans from financial institutions	- Trade and other payables
- Trade and other payables	- Lease liabilities
- Lease liabilities	

The analysis of financial instruments carried and disclosed at fair value, by valuation method. The different levels have been defined as follows:

- Level 1: Quoted prices (unadjusted) in active markets for identical assets or liabilities.
- Level 2: Inputs other than quoted prices included within level 1 that are observable for the asset or liability, either directly (that is, as prices) or indirectly (that is, derived from prices).
- Level 3: Inputs for the asset or liability that are not based on observable market data (that is, unobservable inputs).

The fair values of long-term loans from financial institutions (net) and forward contracts are disclosed in Note 30 and 42.4.

	Notes	Level	Fair value disclosure	
			Consolidated	
			financial statements	
			2022 Baht	2021 Baht
Statement of financial position as at 31 December				
Investment property	17	2	125,673,355	216,569,310
Long-term loans from financial institutions	30	2	4,373,334,472	4,273,491,528
Forward contracts	42.4	2	1,445,964	104,598

Financial instruments in level 2

The fair value of financial instruments that are not traded in an active market (over-the-counter) is determined by using valuation techniques. These valuation techniques maximise the use of observable market data where it is available and rely as little as possible on entity specific estimates. If all significant inputs required to fair value an instrument are observable, the instrument is included in level 2.

The Group's policy is to recognise transfers into and transfers out of fair value hierarchy levels as the date end of the report.

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7 Critical accounting estimates, assumptions and judgements

Estimates, assumptions and judgements are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances.

Critical accounting estimates and assumptions

The Group makes estimates and assumptions concerning the future. The result of accounting estimates will seldom equal the related actual results. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are outlined below.

a) Fair value of certain financial assets and derivatives

The fair value of financial instruments that are not traded in an active market is determined using valuation techniques. The Group uses judgement to select a variety of methods and make assumptions that are mainly based on market conditions existing at the end of each reporting period. Details of key assumptions used are included in note 42.4.

b) Impairment of investment property

The Group has assessed the impairment of land for rent when there is any indicator that book amount of the property would not be realized or when book amount of the property exceeded recoverable amount the management carried out the assessment by considering rental income and fluctuation in value of land in located area (Note 17).

c) Property, plant and equipment

In determining depreciation of plant and equipment, the management is required to make estimates of the useful lives and salvage values of the plant and equipment and to review estimate useful lives and salvage values when there are any changes.

In addition, the management is required to review property, plant and equipment for impairment on a periodical basis and record impairment loss in the period when it is determined that their recoverable amount is lower than the carrying amount. This requires judgements regarding forecast of future revenue and expenses relating to the assets subject to the review (Note 18).

d) Useful life of intangible asset

The Group estimates the useful life of power purchase agreements to be at least 7 years based on the remaining power purchase agreement period. However, the actual useful life may be shorter or longer than the determined life, depending on the indirect subsidiaries' readiness in extension of the power purchase agreements.

e) Deferred Income tax

Deferred tax assets come from the estimation of some temporary difference effects which is probable to utilise tax benefit. Management's estimation comes from an assumption based on an available future income and any factors or external exposures which might affect the projected future performance. The Group also considered the utilisation of the past tax losses and assessed the estimation on a conservative basis.

f) Determination of lease terms

Critical judgement in determining the lease term, the Group considers all facts and circumstances that create an economic incentive to exercise an extension option, or not exercise a termination option. Extension options (or periods after termination options) are only included in the lease term if the lease is reasonably certain to be extended (or not terminated).

For leases of properties, the most relevant factors are historical lease durations, the costs and conditions of leased assets.

Most extension options on offices and vehicles leases have not been included in the lease liability, because the Group considers a) the underlying asset condition and/or b) insignificant cost to replace the leased assets.

The lease term is reassessed if an option is actually exercised (or not exercised) or the Group becomes obliged to exercise (or not exercise) it. The assessment of reasonable certainty is only revised if a significant event or a significant change in circumstance affecting this assessment occur, and that it is within the control of the Group.

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g) Determination of discount rate applied to leases

The Group determines the incremental borrowing rate as follows:

- Where possible, use recent third-party financing received by the individual lessee as a starting point, adjusting to reflect changes in its financing conditions.
- Make adjustments specific to the lease, e.g., term.

h) Employee benefit obligations

The present value of employee benefit obligations depends on a number of factors that are determined on an actuarial basis using a number of assumptions. Any changes in these assumptions will have an impact on the carrying amount of employee benefit obligations. The Group determines the appropriate discount rate at the end of each year. This is the interest rate that should be used to determine the present value of estimated future cash outflows expected to be required to settle the employee benefit obligations. In determining the appropriate discount rate.

The Group considers the market yield of government bonds that are denominated in the currency in which the benefits will be paid, and that have terms to maturity approximating the terms of the related employee benefit liability.

Other key assumptions for employee benefit obligations are based in part on current market conditions. Additional information is disclosed in Note 31.

i) Provisions

The Group has liabilities that may arise from being sued for damages. The management uses judgment of assess the outcome of the case in which the Group has been charged. If the management considers that there may be damaged occurred, the Group recorded a provision for losses that might arise in such circumstances. If management determines and believes that the Group will not be damaged, the Group does not record contingent liabilities as at the end of accounting period.

j) Impairment of investments in subsidiaries and related assets

The Group tests impairment of investments in subsidiaries and related assets when events or changes in circumstances indicate that the carrying value of the investment is higher than its recoverable amounts by applying the value-in-use model or fair value less costs of disposal. The value-in-use model involves management's significant judgments with respect to the future operating results of business, projected cash flows, appropriate discount rate to be applied to the projected cash flows. Key assumptions applied in the value-in-use model or fair value less costs of disposal are electricity tariff, assumed capacity of the power plants, growth rate, expected changes to operating expenditures, and the discount rate to be applied to the projected cash flows.

8 Capital risk management

The Group's objectives when managing capital are to safeguard the Group's ability to continue as a going concern in order to provide returns for shareholders and benefits for other stakeholders and to maintain an optimal capital structure to reduce the cost of capital.

In order to maintain or adjust the capital structure, the Group may adjust the amount of dividends paid to shareholders, return capital to shareholders, and issue new shares or sell assets to reduce debt.

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9 Segment information

The Group operates in Thailand in four business segments: biomass power plants, solid waste power plant, natural gas power plant and solar energy power plant. Also the Group operates in one geographical segment, i.e., in Thailand. So, the Board of Directors is the highest decision-making authority for the business operations and it considers the Group's segment information for the years ended 31 December 2022 and 2021 to be as follows:

	Certain part of consolidated statement of comprehensive income for the years ended 31 December 2022 and 2021 (Baht)									
	Biomass power plants		Solid waste power plants		Natural gas power plant		Solar energy power plant		Total	
	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021
Sales of goods and services										
- Timing of revenue recognition										
- point in time	3,350,756,777	3,261,727,923	503,224,383	482,126,108	2,628,034,185	1,554,200,745	20,055,471	17,830,685	6,502,070,816	5,315,885,461
Revenue from finance lease under a Power Purchase Agreement	-	-	-	-	414,942,989	411,035,336	-	-	414,942,989	411,035,336
Cost of sales and services	(2,353,181,610)	(2,175,233,741)	(212,492,166)	(220,456,971)	(2,469,507,648)	(1,403,973,899)	(9,148,856)	(8,304,640)	(5,044,330,280)	(3,807,969,251)
Gross segment profit	997,575,167	1,086,494,182	290,732,217	261,669,137	573,469,526	561,262,182	10,906,615	9,526,045	1,872,683,525	1,918,951,546
Net gain on exchange rate									53,466,275	155,757,750
Net gain (loss) on forward contracts									1,341,366	12,197,874
Other income									16,956,377	12,750,686
Administrative expenses									(438,160,202)	(350,349,632)
Finance costs									(132,092,477)	(141,373,462)
Tax expenses									(92,764,110)	(102,517,118)
Net profit for the year									1,281,430,754	1,505,417,644
Depreciation (Note 18 and 20)	591,834,410	533,405,978	16,201,123	13,900,913	24,695,415	24,501,749	6,752,053	6,243,169	639,483,001	578,051,809
Amortisation (Note 19 and 22)	4,846,974	4,040,456	84,474,456	84,411,724	715,217	605,825	26,232	94,996	90,062,879	89,153,001

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	Certain part of consolidated statement of financial position as at 31 December 2022 and 2021 (Baht)									
	Biomass power plants		Solid waste power plants		Natural gas power plant		Solar energy power plant		Total	
	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021
Segment assets	11,182,872,516	10,628,909,427	2,304,800,612	2,168,573,023	4,817,670,781	4,654,800,877	226,392,930	327,491,568	18,531,736,839	17,779,774,895
Unallocated assets									1,539,404,932	960,425,616
Consolidated total assets									20,071,141,771	18,740,200,511
Segment liabilities	2,479,363,016	1,619,288,667	721,970,413	940,267,613	2,404,380,758	2,587,910,726	9,320,058	8,176,935	5,615,034,245	5,155,643,941
Unallocated liabilities									271,342,624	215,978,958
Consolidated total liabilities									5,886,376,869	5,371,622,899

The Group has two main customers whose combine revenue for the year ended 31 December 2022 is 98.35% of total revenues (2021: 98.14%). These customers are the Provincial Electricity Authority, purchasing from the biomass power plants and the solid waste power plants, and the Electricity Generating Authority of Thailand, purchasing from the biomass power plant and the natural gas power plant.

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10 Cash and cash equivalents

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Cash on hand	256,806	186,254	-	-
Cash at banks - current accounts	487,062	206,442	347,502	202,890
- savings accounts	428,360,571	889,912,653	45,804,847	4,552,438
Cheque on hand	-	443,234	-	-
	429,104,439	890,748,583	46,152,349	4,755,328

Cash at banks - savings accounts as at 31 December 2022 carries interest at the rates of 0.25% to 0.38% per annum (2021 : 0.05% to 0.13% per annum).

11 Restricted deposits at financial institutions

Restricted deposits at financial institutions which are savings accounts as at 31 December 2022 and 2021 as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Guarantee for long-term loans from financial institutions (Note 30)				
- Cash at bank	397,154,014	435,177,363	-	-
Guarantee for electricity usage (Note 43.1)				
- Cash at bank	436,500	436,500	-	-
	397,590,514	435,613,863	-	-

The Group's restricted deposits at financial institutions as at 31 December 2022 amounting to Baht 397,154,014 (2021 : Baht 435,177,363) are savings accounts reserved with financial institutions for receiving payment under the Power Purchase Agreements, which have been pledged as securities for loans from financial institutions with sufficient reserves for the repayment of principal, interest and repair and major maintenance reserve accounts. These reserves are retained from revenue received from the sales of electricity. However, withdrawals of cash from each deposit must be made with the financial institutions' approval.

Restricted deposits at financial institutions as at 31 December 2022 and 2021 have interest rates as follows:

	Interest rate (% per annum)			
	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
Cash at bank - savings accounts	0.25 to 0.50	0.05 to 0.50	-	-

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12 Trade and other receivables

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Trade accounts receivable				
- Billed				
- Provincial Electricity Authority	331,397,332	317,157,509	-	-
- Electricity Generating Authority of Thailand	244,438,300	174,303,331	-	-
- third party	10,407,440	11,086,141	-	-
- related party (Note 41 a))	9,588,631	9,091,403	-	-
	595,831,703	511,638,384	-	-
- Unbilled				
- Provincial Electricity Authority	330,589,841	318,581,003	-	-
- Electricity Generating Authority of Thailand	226,023,420	168,550,836	-	-
- third party	1,171,640	934,406	-	-
- related party (Note 41 a))	4,248,778	4,743,334	-	-
	562,033,679	492,809,579	-	-
Total trade accounts receivable	1,157,865,382	1,004,447,963	-	-
Other accounts receivable				
- third party	36,937,770	3,473,051	-	300,000
- related party (Note 41 a))	12,507,602	9,642,641	-	-
Accrued interest income				
- third party	40,799	14,786	1,926	47
- related party (Note 41 a))	-	-	12,296	-
Accrued land rental income				
- related party (Note 41 a))	58,003	58,003	-	-
Advance payments				
- employees	824,054	695,133	208,225	286,386
- related party (Note 41 a))	720,000	188,340	-	-
Advance payment for repair and maintenance of machinery				
- third party	5,651,047	8,974,165	-	-
- related party (Note 41 a))	366,118	777,477	-	-
Prepaid insurance expenses	9,454,061	10,020,499	362,126	297,449
Prepaid expenses	10,405,230	5,669,491	1,633,255	1,566,964
Deposits received within 1 year	197,582,800	25,077,500	-	-
Total	1,432,412,866	1,069,039,049	2,217,828	2,450,846

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Outstanding trade accounts receivable as at 31 December 2022 and 2021 can be analysed by aging as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Trade accounts receivable				
- Provincial Electricity Authority				
- Billed				
Not yet due	331,397,332	317,157,509	-	-
- Unbilled	330,589,841	318,581,003	-	-
	661,987,173	635,738,512	-	-
- Electricity Generating Authority of Thailand				
- Billed				
Not yet due	21,486,482	17,310,007	-	-
- Unbilled	17,159,522	19,484,759	-	-
	38,646,004	36,794,766	-	-
- Third party				
- Billed				
Not yet due	10,407,440	11,086,141	-	-
- Unbilled	1,171,640	934,406	-	-
	11,579,080	12,020,547	-	-
- Related party (Note 41 a))				
- Billed				
Not yet due	2,958,663	2,788,405	-	-
Over due less than 3 months	6,629,968	6,302,998	-	-
- Unbilled	4,248,778	4,743,334	-	-
	13,837,409	13,834,737	-	-
Receivable from service under Power Purchase Agreement				
- Electricity Generating Authority of Thailand				
- Billed				
Not yet due	222,951,818	156,993,324	-	-
- Unbilled	208,863,898	149,066,077	-	-
	431,815,716	306,059,401	-	-
Total	1,157,865,382	1,004,447,963	-	-

The Group's credit term for trade accounts receivable - not yet due is 30 days.

13 Receivable under finance lease (net)

During the year ended 31 December 2017, Advance Agro Asia Company Limited, an indirect subsidiary, completed the construction of a natural gas power plant in Chachoengsao and started selling electricity to the Electricity Generating Authority of Thailand. The Group's management assessed the Power Purchase Agreement in accordance with TFRIC 4 "Determining whether an arrangement contains a lease" and found that the agreements are finance lease. Therefore, the Group's management derecognised building and equipment and recognised to receivables under finance lease net of unearned financial income. Revenue from sales of electricity under Power Purchase Agreement will be recognised as revenue from finance lease agreement under Power Purchase Agreement and revenue from service under Power Purchase Agreement and are included in sales of goods and services.

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	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Receivable under finance lease	9,136,126,458	9,439,622,914	-	-
<u>Less</u> Unearned financial income	(5,735,162,287)	(6,054,464,610)	-	-
	3,400,964,171	3,385,158,304	-	-
<u>Less</u> Current portion (net)	(116,976,350)	(110,073,198)	-	-
	3,283,987,821	3,275,085,106	-	-
<u>Less</u> Due over 1 year but not over 5 years	(220,855,971)	(191,631,867)	-	-
Over 5 years but not over 25 years	3,063,131,850	3,083,453,239	-	-

As at 31 December 2022, the Group had receivable under finance lease which had not yet received the payments for 2 months amounting to Baht 76,675,572 (2021 : not yet received the payment for 2 months amounting to Baht 75,105,099).

Minimum receivables under finance lease as at 31 December 2022 and 2021 are as follow:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Due for payment				
Due within 1 year	532,954,576	523,866,568	-	-
Due over 1 year but not over 5 years	1,825,116,015	1,795,045,877	-	-
Due over 5 years but not over 25 years	6,778,055,867	7,120,710,469	-	-
	9,136,126,458	9,439,622,914	-	-

14 Inventories

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Fuel raw materials	772,003,348	425,301,982	-	-
Consumable materials	25,320,608	16,725,565	-	-
Spare parts	160,072,856	89,604,992	-	-
	957,396,812	531,632,539	-	-

The cost of inventories recognised as expenses and included in cost of sales amounting to Baht 3,679,069,777 (2021 : Baht 2,532,171,912).

15 Value added tax (net)

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Value added tax receivables	80,448,255	54,185,964	-	-
Value added tax payables	(14,682,061)	(7,376,171)	(419,036)	(444,556)
Undue input tax	11,947,571	1,571,858	167,151	88,848
Undue output tax	(45,154,723)	(36,748,644)	-	-
	32,559,042	11,633,007	(251,885)	(355,708)
Presented as assets (net)	80,141,354	53,909,836	-	-
Presented as liabilities (net)	(47,582,312)	(42,276,829)	(251,885)	(355,708)

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16 Investment in subsidiaries

Investment in subsidiaries as at 31 December 2022 and 2021 comprise the following:

Direct subsidiary	Located in/ Incorporated in	Nature of business	Registered share capital		Paid-up share capital		Percentage of shareholding		Separate financial statements			
			2022	2021	2022	2021	2022	2021	Cost method		Dividend income	
			Baht	Baht	Baht	Baht	%	%	2022	2021	2022	2021
									Baht	Baht	Baht	Baht
Asia Clean Energy Company Limited	Thailand	Hold investments	11,000,000,000	9,500,000,000	11,000,000,000	9,327,000,000	100.00	100.00	10,999,999,980	9,326,999,980	1,943,312,996	395,999,999
									10,999,999,980	9,326,999,980	1,943,312,996	395,999,999

The movement of investment in subsidiaries for the years ended 31 December 2022 and 2021 are as follows:

	Separate financial statements	
	2022 Baht	2021 Baht
Opening book amount	9,326,999,980	8,999,999,980
Addition	1,673,000,000	327,000,000
Closing book amount	10,999,999,980	9,326,999,980

Additional investment in a direct subsidiary

During the year ended 31 December 2022, the Board of Directors of Asia Clean Energy Company Limited called for paid-up share capital which was held by the shareholders totalling 50,000,000 shares (at par value of Baht 10.00 per share), from the paid-up of Baht 6.54 per share to the paid-up of Baht 10.00 per share, totalling Baht 173,000,000.

During the year ended 31 December 2022, the Extraordinary General Meeting of Asia Clean Energy Company Limited approved to increase its share capital totalling Baht 1,500,000,000 by issuing 150,000,000 ordinary shares at Baht 10.00 per share. The subsidiary called for paid-up share capital totalling 150,000,000 shares at Baht 10.00 per share, totalling Baht 1,500,000,000.

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All indirect subsidiaries owned by Asia Clean Energy Company Limited are as follows:

Indirect subsidiaries	Located in/ Incorporated in	Nature of business	Registered share capital		Paid-up share capital		Percentage of shareholding		Cost method		Dividend income - Asia Clean Energy Company Limited	
			2022	2021	2022	2021	2022	2021	2022	2021	2022	2021
			Baht	Baht	Baht	Baht	%	%	Baht	Baht	Baht	Baht
Advance Clean Power Company Limited	Thailand	Electricity generation at Chonburi, Roi – Et, Kanchanaburi and Kamphaeng Phet	2,000,000,000	2,000,000,000	1,778,650,000	1,778,650,000	100.00	100.00	1,778,649,980	1,778,649,980	152,963,898	194,502,948
Advance Agro Power Plant Company Limited	Thailand	Electricity generation at Surin and Nakhon Ratchasima	1,000,000,000	1,000,000,000	1,000,000,000	1,000,000,000	100.00	100.00	999,999,970	999,999,970	105,999,997	129,999,996
Advance Farm Tree Company Limited	Thailand	Hold the Power Purchase Agreement at Amnat Charoen	10,000,000	10,000,000	8,200,000	7,600,000	100.00	100.00	8,199,942	7,599,946	-	-
Alliance Clean Power Company Limited	Thailand	Electricity generation at Nong Khai, Ubon Ratchathani, Khon Kaen, and Krabi	2,900,000,000	2,720,000,000	2,749,050,000	2,397,700,000	100.00	100.00	2,750,750,000	2,399,400,000	213,487,848	381,829,697
Advance Agro Asia Company Limited	Thailand	Electricity generation at Chachoengsao	1,500,000,000	1,500,000,000	1,500,000,000	1,500,000,000	100.00	100.00	1,500,000,000	1,500,000,000	308,999,994	343,499,993
Advance Asia Power Plant Company Limited	Thailand	Electricity generation at Khon Kaen	575,000,000	575,000,000	570,725,000	567,200,000	100.00	100.00	572,095,000	568,570,000	46,115,924	69,198,398
Advance Bio Asia Company Limited	Thailand	Electricity generation at Lampang	750,000,000	750,000,000	699,500,000	699,500,000	100.00	100.00	661,500,000	661,500,000	66,452,498	120,992,996
ACE Solar Company Limited	Thailand	Solar energy generation at Chonburi, Nakhon Ratchasima and Samut Sakorn	380,000,000	380,000,000	343,220,000	338,000,000	100.00	100.00	341,920,000	336,700,000	-	-
Bio Power Plant Company Limited	Thailand	Hold the land and Power Purchase Agreement at Lopburi, Kamphaeng Phet and Nakhon Ratchasima	650,000,000	650,000,000	530,150,000	350,000,000	100.00	100.00	528,350,000	348,200,000	-	-
Power Supply and Maintenance Service Company Limited	Thailand	Power plant maintenance Service	82,000,000	310,000,000	82,000,000	164,400,000	100.00	100.00	81,999,970	164,399,970	1,829,000	17,652,395
Absolute Clean Water Company Limited	Thailand	Hold the land and Power Purchase Agreement at Prachinburi	200,000,000	200,000,000	180,299,000	180,299,000	100.00	100.00	176,330,980	176,330,980	-	-
Advance Asia Energy Company Limited	Thailand	Electricity generation at Nakhon Ratchasima	650,000,000	650,000,000	540,120,000	540,120,000	100.00	100.00	499,079,983	499,079,983	19,444,319	72,916,197
Advance Bio Energy Company Limited	Thailand	Electricity generation at Buriram	650,000,000	500,000,000	650,000,000	500,000,000	100.00	100.00	490,640,938	340,640,938	-	-
Absolute Clean Engineering and Service Company Limited	Thailand	Electricity generation at Buriram	590,000,000	590,000,000	590,000,000	555,592,000	100.00	100.00	423,766,625	389,358,625	-	-
Provincial Renewable Energy (Thailand) Company Limited	Thailand	Investment in community power plant	220,000,000	220,000,000	128,800,000	77,500,000	100.00	100.00	128,799,970	77,499,970	-	-
Renewable Energy (Central) Company Limited	Thailand	Investment in community power plant	150,000,000	150,000,000	74,360,000	58,500,000	100.00	100.00	74,359,970	58,499,970	-	-
Renewable Energy (North) Company Limited	Thailand	Investment in community power plant	400,000,000	150,000,000	137,500,000	75,000,000	100.00	100.00	137,499,970	74,999,970	-	-
Renewable Energy (Northeast) Company Limited	Thailand	Investment in community power plant	480,000,000	120,000,000	224,760,000	63,000,000	100.00	100.00	224,759,970	62,999,970	-	-
Renewable Energy Siam Company Limited	Thailand	Investment in community power plant	250,000,000	120,000,000	152,500,000	63,000,000	100.00	100.00	152,499,970	62,999,970	-	-
									11,531,203,238	10,507,430,242	915,293,478	1,330,592,620

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The Group's management has reviewed the allowance for impairment of investment in subsidiaries. The allowance for impairment of such investment is based on the past and prospective future performance of subsidiaries, including other factors (if any).

All shares of a subsidiary and indirect subsidiaries, totalling 6 companies have been pledged as collateral for loans from financial institutions (Note 25 and 30).

16.1 Additional investment in an indirect subsidiary

During the year ended 31 December 2022, the Board of Directors of National Clean Energy Company Limited, an indirect subsidiary, called for paid-up share capital from Alliance Clean Power Company Limited totalling 49,490,000 shares, at Baht 1.26 per share, totalling Baht 62,357,400 and from Advance Alliance Logistics Company Limited totalling 5,500,000 shares, at Baht 1.26 per share, totalling Baht 6,930,000. National Clean Energy Company Limited had already received the payment for additional calls for paid-up share capital in full amount.

16.2 Dividend payment

During the year ended 31 December 2022, the Board of Directors of Asia Clean Energy Company Limited paid dividends to shareholders according to the portion of share paid-up, totalling Baht 1,943,313,000 and has allocated a net profit as a legal reserve in the amount of Baht 198,200,000.

17 Investment property (net)

The Group's investment property (net) is land for rent and land held for a currently undetermined future use which has movements for the years ended 31 December 2022 and 2021 as follows:

	Consolidated financial statements		
	Land for rent Baht	Land held for a currently undetermined future use Baht	Total Baht
As at 1 January 2021			
Cost	40,416,137	110,552,050	150,968,187
<u>Less</u> Provision for impairment	(6,117,087)	-	(6,117,087)
Net book amount	34,299,050	110,552,050	144,851,100
For the year ended 31 December 2021			
Opening net book amount	34,299,050	110,552,050	144,851,100
Addition	-	65,833,040	65,833,040
Closing net book amount	34,299,050	176,385,090	210,684,140
As at 31 December 2021			
Cost	40,416,137	176,385,090	216,801,227
<u>Less</u> Provision for impairment	(6,117,087)	-	(6,117,087)
Net book amount	34,299,050	176,385,090	210,684,140
For the year ended 31 December 2022			
Opening net book amount	34,299,050	176,385,090	210,684,140
Reclassification to investment property (Note 18)	-	(87,846,735)	(87,846,735)
Reversal of loss from impairment	945,000	-	945,000
Closing net book amount	35,244,050	88,538,355	123,782,405
As at 31 December 2022			
Cost	40,416,137	88,538,355	128,954,492
<u>Less</u> Provision for impairment	(5,172,087)	-	(5,172,087)
Net book amount	35,244,050	88,538,355	123,782,405
Fair value as at 31 December 2022	37,135,000	88,538,355	125,673,355
Fair value as at 31 December 2021	36,160,000	180,409,310	216,569,310

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The Group assessed the provision for impairment of land for rent by comparing the net book value with the recoverable amount (the higher of the value in use or fair value less cost of disposal) calculated at the cash-generating unit level, which is each plot of land for rent. The recoverable amount determined based on the fair value less cost of disposal was appraised by Landmark Consultant Company Limited (2021: Landmark Consultant Company Limited), an independent valuer with a recognised relevant professional qualification and adequate experience in appraising land value with the same nature and in the same vicinity as the appraised land using the market approach (2021: using market approach).

The provision for impairment of land for rent for the years ended 31 December 2022 and 2021 are as follows:

	Consolidated financial statements		
	2021 Baht	Reversal Baht	2022 Baht
Impairment of land for rent of indirect subsidiaries			
- Advance Clean Power Company Limited	(5,172,087)	-	(5,172,087)
- Advance Asia Power Plant Company Limited	(945,000)	945,000	-
	(6,117,087)	945,000	(5,172,087)

As at 31 December 2022 and 2021, the Group's investment property at cost of Baht 30,891,137 have been mortgaged and pledged to secure long-term loans from financial institutions (Note 30).

The fair value of the Group's investment property as at 31 December 2022 was assessed by an independent valuer, with a recognised relevant professional qualification and adequate experience in appraising land with the same nature and in the same vicinity as appraised land, using the market approach (2021 : using market approach). The fair value of Baht 125,673,355 (2021 : Baht 216,569,310), has been defined as level 2 in the fair value hierarchy for investment property.

The amount recognised in profit and loss from investment property for the years ended 31 December 2022 and 2021 are as follows:

	Consolidated financial statements	
	2022 Baht	2021 Baht
Rental income - a related party	133,204	133,204

The Group has no direct cost from investment property for the years ended 31 December 2022 and 2021.

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18 Property, plant and equipment (net)

	Consolidated financial statements									
	Land Baht	Land improvement Baht	Building and building improvement - Power plant Baht	Building and building improvement - Office Baht	Machinery and equipment Baht	Tool and equipment Baht	Office equipment and furniture and fixture Baht	Vehicle Baht	Construction in progress and machines under installation Baht	Total Baht
As at 1 January 2021										
Cost	2,054,889,575	627,030,494	959,551,828	234,778,514	6,991,609,268	50,932,018	33,918,390	17,996,497	933,238,355	11,903,944,939
<u>Less</u> Accumulated depreciation	-	(144,776,299)	(277,252,676)	(48,033,336)	(2,242,342,994)	(25,576,692)	(21,220,084)	(4,297,062)	-	(2,763,499,143)
Allowance for impairment	(16,487,070)	-	-	-	-	-	-	-	(28,676,715)	(45,163,785)
Net book amount	2,038,402,505	482,254,195	682,299,152	186,745,178	4,749,266,274	25,355,326	12,698,306	13,699,435	904,561,640	9,095,282,011
For the year ended 31 December 2021										
Opening net book amount	2,038,402,505	482,254,195	682,299,152	186,745,178	4,749,266,274	25,355,326	12,698,306	13,699,435	904,561,640	9,095,282,011
Additions	553,850,257	104,562,436	4,918,197	756,945	316,822,344	8,091,182	7,678,120	192,600	754,266,860	1,751,138,941
Transfer in (out)	82,460,197	65,569,049	128,481,718	358,832	726,163,381	581,630	33,674	-	(1,003,648,481)	-
Write-offs - Cost	-	-	-	-	(32,245,286)	-	(3,700)	(650,000)	(4,678,244)	(37,577,230)
- Accumulated depreciation	-	-	-	-	25,841,107	-	3,699	394,796	-	26,239,602
Depreciation charges	-	(37,746,220)	(58,238,258)	(10,193,211)	(449,174,451)	(9,972,825)	(5,961,061)	(3,695,894)	-	(574,981,920)
Reversal of loss from impairment	1,191,550	-	-	-	-	-	-	-	-	1,191,550
Closing net book amount	2,675,904,509	614,639,460	757,460,809	177,667,744	5,336,673,369	24,055,313	14,449,038	9,940,937	650,501,775	10,261,292,954
As at 31 December 2021										
Cost	2,691,200,029	797,161,979	1,092,951,743	235,894,291	8,002,349,707	59,604,830	41,626,484	17,539,097	679,178,490	13,617,506,650
<u>Less</u> Accumulated depreciation	-	(182,522,519)	(335,490,934)	(58,226,547)	(2,665,676,338)	(35,549,517)	(27,177,446)	(7,598,160)	-	(3,312,241,461)
Allowance for impairment	(15,295,520)	-	-	-	-	-	-	-	(28,676,715)	(43,972,235)
Net book amount	2,675,904,509	614,639,460	757,460,809	177,667,744	5,336,673,369	24,055,313	14,449,038	9,940,937	650,501,775	10,261,292,954

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	Consolidated financial statements									Total Baht
	Land Baht	Land improvement Baht	Building and building improvement - Power plant Baht	Building and building improvement - Office Baht	Machinery and equipment Baht	Tool and equipment Baht	Office equipment and furniture and fixture Baht	Vehicle Baht	Construction in progress and machines under installation Baht	
For the year ended 31 December 2022										
Opening net book amount	2,675,904,509	614,639,460	757,460,809	177,667,744	5,336,673,369	24,055,313	14,449,038	9,940,937	650,501,775	10,261,292,954
Additions	816,893,152	25,569,567	729,463	895,831	226,787,788	9,347,887	6,884,674	5,291,505	445,516,057	1,537,915,924
Reclassification from investment property (Note 17)	87,846,735	-	-	-	-	-	-	-	-	87,846,735
Transfer in (out)	-	19,078,925	999,429	16,733,281	9,768,725	60,980	10,990	-	(46,652,330)	-
Disposals - Cost	-	-	-	-	-	-	-	-	(1,450,431)	(1,450,431)
Write-offs - Cost	-	-	-	-	(61,546,928)	(5,312,966)	(1,606,585)	-	(2,140)	(68,468,619)
- Accumulated depreciation	-	-	-	-	46,921,988	5,298,606	1,591,058	-	-	53,811,652
Depreciation charges	-	(48,123,454)	(63,147,663)	(10,278,020)	(485,386,414)	(9,241,575)	(5,750,562)	(2,748,562)	-	(624,676,250)
Reversal (loss) of loss from impairment	11,250,520	-	-	-	-	-	-	-	(30,703,706)	(19,453,186)
Closing net book amount	3,591,894,916	611,164,498	696,042,038	185,018,836	5,073,218,528	24,208,245	15,578,613	12,483,880	1,017,209,225	11,226,818,779
As at 31 December 2022										
Cost	3,595,939,916	841,810,471	1,094,680,635	253,523,403	8,177,359,292	63,700,731	46,915,563	22,830,602	1,076,589,646	15,173,350,259
<u>Less</u> Accumulated depreciation	-	(230,645,973)	(398,638,597)	(68,504,567)	(3,104,140,764)	(39,492,486)	(31,336,950)	(10,346,722)	-	(3,883,106,059)
Allowance for impairment	(4,045,000)	-	-	-	-	-	-	-	(59,380,421)	(63,425,421)
Net book amount	3,591,894,916	611,164,498	696,042,038	185,018,836	5,073,218,528	24,208,245	15,578,613	12,483,880	1,017,209,225	11,226,818,779

Notes to the Consolidated and Separate Financial Statements

For the year ended 31 December 2022

	Separate financial statement			
	Building and building improvement - Office Baht	Tool and equipment Baht	Office equipment and furniture and fixture Baht	Total Baht
As at 1 January 2021				
Cost	70,528,201	-	4,222,684	74,750,885
<u>Less</u> Accumulated depreciation	(2,481,233)	-	(1,831,140)	(4,312,373)
Net book amount	68,046,968	-	2,391,544	70,438,512
For the year ended 31 December 2021				
Opening net book amount	68,046,968	-	2,391,544	70,438,512
Additions	-	177,570	3,608,400	3,785,970
Depreciation charge	(2,821,129)	(31,039)	(1,373,305)	(4,225,473)
Closing net book amount	65,225,839	146,531	4,626,639	69,999,009
As at 31 December 2021				
Cost	70,528,201	177,570	7,831,084	78,536,855
<u>Less</u> Accumulated depreciation	(5,302,362)	(31,039)	(3,204,445)	(8,537,846)
Net book amount	65,225,839	146,531	4,626,639	69,999,009
For the year ended 31 December 2022				
Opening net book amount	65,225,839	146,531	4,626,639	69,999,009
Additions	74,600	-	393,304	467,904
Depreciation charge	(2,818,990)	(35,499)	(1,279,421)	(4,133,910)
Closing net book amount	62,481,449	111,032	3,740,522	66,333,003
As at 31 December 2022				
Cost	70,602,801	177,570	8,224,388	79,004,759
<u>Less</u> Accumulated depreciation	(8,121,352)	(66,538)	(4,483,866)	(12,671,756)
Net book amount	62,481,449	111,032	3,740,522	66,333,003

As at 31 December 2022, the Group pledged property, plant and equipment (including land, buildings and machineries which are under Power Purchase Agreements classified as receivable under finance lease and the right to service under concession arrangement) at the cost of Baht 14,174,101,610 (31 December 2021 : Baht 13,029,772,706) as collaterals against loans from financial institutions (Note 25 and 30). Under the term of the loan agreements, the Group is required to mortgage and pledge land, building, and machineries as collaterals with the financial institutions.

As at 31 December 2022, the cost of fully depreciated buildings and equipment that are still in used as included in the financial statements were Baht 706,568,945 (2021 : Baht 589,893,346).

Notes to the Consolidated and Separate Financial Statements

For the year ended 31 December 2022

Impairment of land not used in operation

In 2022 and 2021, the Group's management assessed the progress of the proposal to cancel the termination of the Power Purchase Agreements and to reinstate the Power Purchase Agreements and extend the scheduled commercial operation date of indirect subsidiaries (Note 45.10) and plan to grow energy crops to be used as fuel materials for power plant. The Group's management also considered indicators of provision for impairment of land not used in operation that has purpose for constructing a power plant construction under the mentioned dispute. The Group assessed the impairment of land not used in operation by comparing the net book value with the recoverable amount (the higher of the value in use or fair value less cost of disposal) calculated at the cash-generating unit level, which is each plot of land upon management decision. The recoverable amount is determined based on the fair value less cost of disposal as appraised by Landmark Consultant Company Limited, (2021: Landmark Consultant Company Limited) an independent valuer holding a recognised relevant professional qualification with adequate experience in appraising the value of land with the same nature and in the same vicinity, using the market approach (2021 : market approach). The fair value has been defined as level 2 in the fair value hierarchy.

As at 31 December 2022, the Group owned land not used in operation, with a net book value of Baht 747,304,361 (Cost of Baht 751,349,361 less allowance for impairment of Baht 4,045,000) (2021 : net book value of Baht 650,336,598 (Cost of Baht 665,632,118 less allowance for impairment of Baht 15,295,520)). The land is intended to be used for the construction of power plants. The Group is in the process of submitting a proposal for the cancellation of terminated power purchase agreements and the return of power purchase agreements, together with an extension of commercial operation date (Note 45.10) and a plan to grow energy crops to be used as fuel materials for power plant in the future. Therefore, the land is not considered as investment property and is included in property, plant and equipment in the consolidated financial statements.

Impairment of design cost for power plant construction - Alliance Clean Power Company Limited

In 2022 and 2021, the Group's management assessed the progress of the proposal to cancel the termination of the Power Purchase Agreement and to return of Power Purchase Agreement, together with an extension of the commercial operation date of an indirect subsidiary (Note 45.10) and the Group's management also considered indicators of provision for impairment of construction in progress of Alliance Clean Power Company Limited which is the owner of the project. As at 31 December 2022 and 2021, an indirect subsidiary invested in this project amounting of Baht 278,115,649 including machinery and equipment under the installation agreement amounting of Baht 249,438,934 and design cost for power plant construction under subcontractor agreement amounting of Baht 28,676,715.

For the part of machines and equipment under installation, the Group engaged Panns Integrated Property Company Limited, an independent valuer holding a recognised relevant professional qualification with adequate experience in appraising the value of asset. There is no indicator that the progress of machines and equipment under installation is not in line with the Group's payments. There is also no indicator of obsolescence or physical defect. However, if the project owner could not retrieve the Power Purchase Agreement, the Group considers that the assets could be used for other projects which is currently in the process of negotiating the return for the Power Purchase Agreements with the arbitration committee (Note 45.1). Thus, the Group did not recognise provision for impairment.

For the part of construction design of the power plant, if the indirect company which is a project owner could not retrieve the Power Purchase Agreement, the Group considered that adapting the design plan to other projects is highly not probable because the design plan is specific to the project and is not highly probable to apply to other projects. Thus, the Group recognised provision for impairment amounting of Baht 28,676,715 (2021 : Baht 28,676,715).

Impairment of construction in progress - ACE Solar Company Limited and Bio Power Plant Company Limited

In 2022, the Group's management assessed the future economic benefits of construction in progress of the two indirect subsidiaries and considered indicators of allowance for impairment of construction in progress of the two indirect subsidiaries. Thus, the Group recognised allowance for impairment of construction in progress amounting of Baht 30,703,706. This aligns with the construction in progress amount that won't be used in future projects.

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The movement of impairment of land and fixed assets for the year ended 31 December 2022 is as follows:

	Consolidated financial statements		
	2021 Baht	Reversal (Additions) Baht	2022 Baht
Loss on impairment of land not used in operation held by indirect subsidiaries			
- Alliance Clean Power Company Limited	(7,635,000)	3,817,500	(3,817,500)
- Advance Bio Asia Company Limited	(6,185,250)	5,957,750	(227,500)
- Bio Power Plant Company Limited	(1,475,270)	1,475,270	-
	(15,295,520)	11,250,520	(4,045,000)
Loss on impairment of design cost for power plant construction by an indirect subsidiary			
- Alliance Clean Power Company Limited	(28,676,715)	-	(28,676,715)
Loss on impairment of construction in progress by an indirect subsidiary			
- ACE Solar Company Limited	-	(19,811,362)	(19,811,362)
- Bio Power Plant Company Limited	-	(10,892,344)	(10,892,344)
	-	(30,703,706)	(30,703,706)
Total	(43,972,235)	(19,453,186)	(63,425,421)

Notes to the Consolidated and Separate Financial Statements

For the year ended 31 December 2022

19 Rights to service under concession arrangement (net)

The first contract : Waste management services agreement with Khon Kaen municipality

On 18 August 2011, Alliance Clean Power Company Limited, an indirect subsidiary, entered into a contract with Khon Kaen municipality to provide waste management services to convert solid waste into electrical energy for a 20-year period starting from the date of contract signing. As specified in the contract, the indirect subsidiary must construct a plant and install a waste disposal system on the leased area in Khon Kaen municipality. When the contract ends, building, machines and equipment will be transferred to Khon Kaen municipality without any charges. The indirect subsidiary has to comply with any relevant conditions specified in the agreement.

The Group's management assessed the agreement in accordance with TFRIC 12 'Service Concession Arrangements'. As a result, the Group's management recognised the right to service under the concession arrangement as an intangible asset amounting to Baht 886,850,976. This was considered to be compensation for the construction of assets under the concession arrangement. The Group's management has amortised the rights throughout the concession period.

The second contract : Waste management services agreement with Krabi municipality

On 22 February 2019, Alliance Clean Power Company Limited, an indirect subsidiary, entered into contract with Krabi municipality to provide waste management services to convert solid waste into electrical energy for a 25-year period started from the date of contract signing. As specified in the contract, the indirect subsidiary must construct a plant and install a waste disposal system on the leased area in Krabi municipality. When the contract ends, building, machines and equipment will be transferred to Krabi municipality without any charges. The indirect subsidiary has to comply with any relevant conditions as specified in the agreements.

The Group's management assessed the agreement in accordance with TFRIC 12 'Service Concession Arrangements'. As a result, the Group's management recognised the right to service under the concession arrangement as an intangible asset amounting to Baht 975,181,768. This was considered to be compensation for the construction of assets under the concession arrangement and will be amortized throughout the contract period.

Also, the indirect subsidiary is required to recognise provision for power plant maintenance under the concession arrangements in order to maintain the assets and to provide the service as specified in the concession arrangement (Note 28).

The movements of rights to service under concession arrangement of the years ended 31 December 2022 and 2021 are as follows:

	Consolidated financial statements
	Rights to service under concession arrangements
	Baht
As at 1 January 2021	
Cost	1,862,032,744
<u>Less</u> Accumulated amortisation	<u>(222,495,809)</u>
Net book amount	1,639,536,935
For the year ended 31 December 2021	
Opening net book amount	1,639,536,935
Amortisation during the year	<u>(84,288,415)</u>
Closing net book amount	1,555,248,520
As at 31 December 2021	
Cost	1,862,032,744
<u>Less</u> Accumulated amortisation	<u>(306,784,224)</u>
Net book amount	1,555,248,520
For the year ended 31 December 2022	
Opening net book amount	1,555,248,520
Amortisation during the year	<u>(84,288,415)</u>
Closing net book amount	1,470,960,105
As at 31 December 2022	
Cost	1,862,032,744
<u>Less</u> Accumulated amortisation	<u>(391,072,639)</u>
Net book amount	1,470,960,105

Notes to the Consolidated and Separate Financial Statements

For the year ended 31 December 2022

20 Right-of-use assets (net)

As at 31 December 2021

Cost

Less Accumulated depreciation

Net book amount

For the year ended 31 December 2021

Opening net book amount

Addition during the period

Depreciation charge

Closing net book amount

As at 31 December 2021

Cost

Less Accumulated depreciation

Net book amount

For the year ended 31 December 2022

Opening net book amount

Addition during the period

Depreciation charge

Closing net book amount

As at 31 December 2022

Cost

Less Accumulated depreciation

Net book amount

For the year ended 31 December 2022, depreciation expense is presented as an administrative expense for the consolidated financial statements amounting to Baht 14,806,751 and the separate financial statements of Baht 1,446,829.

Payments associated with short-term leases and leases of low-value assets are recognised as an expense in profit or loss on a straight-line basis. Short-term leases are leases with a lease term of 12 months or less. Low-value assets comprise small items of office furniture. The rental expenses for years ended 31 December 2022 and 2021 are as follows:

For the years ended 31 December			
Consolidated financial statements		Separate financial statements	
2022	2021	2022	2021
Baht	Baht	Baht	Baht
438,700	412,350	-	-

Rental expenses

Notes to the Consolidated and Separate Financial Statements

For the year ended 31 December 2022

21 Intangible assets from power purchase agreement

On 23 September 2021, 18 indirect subsidiaries were selected by the Energy Regulatory Commission to participate in the Community Power Plants for Local Economy Project. Participation in the project has conditions for the indirect subsidiaries to share benefits with local enterprise companies and communities surrounding the power plant. The benefits-sharing are detailed below:

1. Giving preferred stocks 10% of the registered capital of the indirect subsidiary to the community enterprise companies. According to the pre-agreed rate, the preferred stocks receive dividends at the minimum amount every year. If such an indirect subsidiary does not announce dividend payment to a community enterprise company in any year, the community enterprise company will receive accumulated dividends for the years that are not declared until the indirect subsidiary announces the dividend payment. The indirect subsidiary must pay all accrued dividends until the amount is fully paid to ordinary shareholders.
2. Other benefits for the communities surrounding the power plant should be agreed upon between the indirect subsidiary and the power plant communities. The objectives are for the benefit of community development and social welfare.

During the year 2021, the aforementioned indirect subsidiaries gave preferred stocks to the community enterprise company in the amount of 10% of the registered capital totalling Baht 16,000,060. As at 31 December 2021, the indirect subsidiaries recorded such transaction as intangible assets from power purchase agreement which will be amortised over the power purchase agreement term.

The power purchase agreements between the indirect subsidiaries and the Provincial Electricity Authority were signed on 21 February 2023.

Notes to the Consolidated and Separate Financial Statements

For the year ended 31 December 2022

22 Intangible assets (net)

	Consolidated financial statements						
	Rights to use gas pipe Baht	Rights to use transmission line Baht	Rights to use Water pipe Baht	Power Purchase Agreement Baht	Computer software Baht	Computer software under installation Baht	Total Baht
As at 1 January 2021							
Cost	1,240,000	62,679,890	-	3,000,000	2,594,185	-	69,514,075
Less Accumulated amortisation	(173,667)	(19,161,640)	-	(141,490)	(491,792)	-	(19,968,589)
Net book amount	1,066,333	43,518,250	-	2,858,510	2,102,393	-	49,545,486
For the year ended 31 December 2021							
Opening net book amount	1,066,333	43,518,250	-	2,858,510	2,102,393	-	49,545,486
Additions during the year	-	4,257,623	7,497,428	-	1,614,600	429,000	13,798,651
Amortisation during the year	(44,816)	(3,795,370)	(247,466)	(388,298)	(388,636)	-	(4,864,586)
Closing net book amount	1,021,517	43,980,503	7,249,962	2,470,212	3,328,357	429,000	58,479,551
As at 31 December 2021							
Cost	1,240,000	66,937,513	7,497,428	3,000,000	4,208,785	429,000	83,312,726
Less Accumulated amortisation	(218,483)	(22,957,010)	(247,466)	(529,788)	(880,428)	-	(24,833,175)
Net book amount	1,021,517	43,980,503	7,249,962	2,470,212	3,328,357	429,000	58,479,551
For the year ended 31 December 2022							
Opening net book amount	1,021,517	43,980,503	7,249,962	2,470,212	3,328,357	429,000	58,479,551
Additions during the year	-	-	-	-	2,068,646	5,193,000	7,261,646
Transfer in (out)	-	-	-	-	1,170,000	(1,170,000)	-
Amortisation during the year	(44,640)	(3,955,100)	(357,017)	(388,298)	(1,029,409)	-	(5,774,464)
Closing net book amount	976,877	40,025,403	6,892,945	2,081,914	5,537,594	4,452,000	59,966,733
As at 31 December 2022							
Cost	1,240,000	66,937,513	7,497,428	3,000,000	7,447,431	4,452,000	90,574,372
Less Accumulated amortisation	(263,123)	(26,912,110)	(604,483)	(918,086)	(1,909,837)	-	(30,607,639)
Net book amount	976,877	40,025,403	6,892,945	2,081,914	5,537,594	4,452,000	59,966,733

Notes to the Consolidated and Separate Financial Statements

For the year ended 31 December 2022

	Separate Financial statements
	Computer software Baht
As at 1 January 2021	
Cost	2,179,000
<u>Less</u> Accumulated amortisation	<u>(182,180)</u>
Net book amount	<u>1,996,820</u>
For the year ended 31 December 2021	
Opening net book amount	1,996,820
Amortisation during the year	<u>(217,901)</u>
Closing net book amount	<u>1,778,919</u>
As at 31 December 2021	
Cost	2,179,000
<u>Less</u> Accumulated amortisation	<u>(400,081)</u>
Net book amount	<u>1,778,919</u>
For the year ended 31 December 2022	
Opening net book amount	1,778,919
Addition during the year	130,000
Amortisation during the year	<u>(234,084)</u>
Closing net book amount	<u>1,674,835</u>
As at 31 December 2022	
Cost	2,309,000
<u>Less</u> Accumulated amortisation	<u>(634,165)</u>
Net book amount	<u>1,674,835</u>

Notes to the Consolidated and Separate Financial Statements

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23 Deferred tax assets/(liabilities) (net)

Deferred tax assets/(liabilities) (net) as at 31 December 2022 and 2021 comprise the following:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Deferred tax assets:	84,034,817	100,345,717	1,037,536	735,103
Deferred tax liabilities:	(237,067,227)	(199,012,177)	-	-
Deferred tax assets/(liabilities) (net)	(153,032,410)	(98,666,460)	1,037,536	735,103
Deferred tax assets/(liabilities) (net) which presented in statement of financial position				
- Deferred tax assets (net)	55,674,285	69,572,435	1,037,536	735,103
- Deferred tax liabilities (net)	(208,706,695)	(168,238,895)	-	-
	(153,032,410)	(98,666,460)	1,037,536	735,103

Deferred tax assets/(liabilities) as at 31 December 2022 and 2021 calculated from the temporary differences using tax rate of 20%.

The movements of deferred tax assets/(liabilities) (net) for the years ended 31 December 2022 and 2021 comprise the following:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Opening balance for the year	(98,666,460)	(23,987,274)	735,103	699,179
Charged/(credited) to profit or loss (Note 39)	(54,529,967)	(74,683,249)	69,921	59,981
Charged/(credited) to other comprehensive income	164,017	4,063	232,512	(24,057)
Closing balance for the year	(153,032,410)	(98,666,460)	1,037,536	735,103

Notes to the Consolidated and Separate Financial Statements

For the year ended 31 December 2022

The Group recognises deferred tax assets for tax loss and carry forward to the extent that realisation of the related tax benefit through the future taxable profit is probable.

	Consolidated financial statements			
	Increase (decrease) in			
	1 January 2022 Baht	Profit or loss Baht	Other comprehensive income Baht	31 December 2022 Baht
Deferred tax assets				
Provision for impairment of investment property	1,223,418	(189,000)	-	1,034,418
Provision for impairment of land not used in operation	3,297,414	(2,488,414)	-	809,000
Difference between book value and fair value from business acquisition	13,301,494	(2,659,545)	-	10,641,949
Provision for impairment of construction in progress	5,735,343	6,140,742	-	11,876,085
Difference in depreciation charge between accounting base and tax base of plant and equipment	42,260,143	(1,699,561)	-	40,560,582
Difference in amortisation charge between accounting base and tax base of rights to use transmission line	595,128	7,362	-	602,490
Provision for service under concession arrangements	6,401,903	(2,929,199)	-	3,472,704
Difference in finance costs of long-term loans from financial institutions between accounting base and tax base	1,898,958	(1,898,958)	-	-
Derivative liabilities	-	47,880	-	47,880
Employee benefit obligations	1,770,892	289,654	164,017	2,224,563
Elimination	223,279	5,292,857	-	5,516,136
Taxable loss carried forward	23,637,745	(16,388,735)	-	7,249,010
	100,345,717	(16,474,917)	164,017	84,034,817
Deferred tax liabilities				
Receivables under finance lease (net)	(111,790,752)	(33,563,641)	-	(145,354,393)
Difference in depreciation charge between accounting base and tax base of plant and equipment	(398,173)	(372,692)	-	(770,865)
Difference book value of rights to service under concession arrangement between accounting base and tax base	(23,050,104)	(3,327,332)	-	(26,377,436)
Difference in finance costs of long-term loans from financial institutions between accounting base and tax base	(1,095)	(1,217,308)	-	(1,218,403)
Difference in finance costs of transaction cost for borrowing between accounting base and tax base	(14,201,965)	742,076	-	(13,459,889)
Derivative assets	(20,920)	(316,153)	-	(337,073)
Difference between book value and fair value from business acquisition	(49,549,168)	-	-	(49,549,168)
	(199,012,177)	(38,055,050)	-	(237,067,227)
Deferred tax assets (net)	(98,666,460)	(54,529,967)	164,017	(153,032,410)

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For the year ended 31 December 2022

	Consolidated financial statements		
	Increase (decrease) in		
	1 January 2021 Baht	Profit or loss Baht	Other comprehensive income Baht
			31 December 2021 Baht
Deferred tax assets			
Provision for impairment of investment property	1,223,418	-	-
Provision for impairment of land not used in operation	3,297,414	-	-
Difference between book value and fair value from business acquisition	15,961,039	(2,659,545)	-
Provision for impairment of construction in progress	5,735,343	-	-
Difference in depreciation charge between accounting base and tax base of plant and equipment	46,990,791	(4,730,648)	-
Difference in amortisation charge between accounting base and tax base of rights to use transmission line	472,468	122,660	-
Provision for service under concession arrangements	6,482,720	(80,817)	-
Difference in finance costs of long-term loans from financial institutions between accounting base and tax base	1,418,285	480,673	-
Derivative liabilities	2,418,655	(2,418,655)	-
Employee benefit obligations	1,544,130	222,699	4,063
Elimination	298,879	(75,600)	-
Taxable loss carried forward	23,666,943	(29,198)	-
	109,510,085	(9,168,431)	4,063
Deferred tax liabilities			
Receivables under finance lease (net)	(57,155,649)	(54,635,103)	-
Difference in depreciation charge between accounting base and tax base of plant and equipment	-	(398,173)	-
Difference book value of rights to service under concession arrangement between accounting base and tax base	(13,605,833)	(9,444,271)	-
Difference in finance costs of long-term loans from financial institutions between accounting base and tax base	(22,285)	21,190	-
Difference in finance costs of transaction cost for borrowing between accounting base and tax base	(13,164,424)	(1,037,541)	-
Derivative assets	-	(20,920)	-
Difference between book value and fair value from business acquisition	(49,549,168)	-	-
	(133,497,359)	(65,514,818)	-
Deferred tax assets (net)	(23,987,274)	(74,683,249)	4,063

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	Separate financial statements		
	Increase/ (decrease) in		
	1 January 2022 Baht	Profit or loss Baht	Other comprehensive income Baht
			31 December 2022 Baht
Deferred tax asset			
Employee benefit obligations	735,103	69,921	232,512
Deferred tax assets (net)	735,103	69,921	232,512

	Separate financial statements		
	Increase/ (decrease) in		
	1 January 2021 Baht	Profit or loss Baht	Other comprehensive income Baht
			31 December 2021 Baht
Deferred tax asset			
Employee benefit obligations	699,179	59,981	(24,057)
Deferred tax assets (net)	699,179	59,981	(24,057)

As at 31 December 2022 and 2021, the Group does not recognise deferred tax assets from taxes loss carried forward to offset with future taxable profit as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Taxes loss due to expire				
- 2022	-	143,296,565	-	-
- 2023	266,707,318	270,948,467	-	-
- 2024	221,832,863	248,975,476	30,609,996	32,196,695
- 2025	176,603,920	176,754,325	-	-
- 2026	36,631,304	42,549,750	12,221,448	12,323,558
- 2027	91,484,351	-	14,592,797	-
	793,259,756	882,524,583	57,424,241	44,520,253
Deferred tax asset (if record)	158,651,951	176,504,917	11,484,848	8,904,051

The Group recognises deferred tax assets for tax loss and carry forward to the extent that realisation of the related tax benefit through the future taxable profit is probable.

24 Other non-current assets

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Prepaid withholding tax	53,657,416	35,197,449	4,910,926	4,127,368
Prepaid transaction cost for borrowing	151,716	193,339	-	-
Advance payments for leasehold registration fee	4,239,753	19,156,320	400,377	400,377
Deposits	1,449,630	-	-	-
	59,498,515	54,547,108	5,311,303	4,527,745

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25 Short-term loans from financial institutions

Short-term loans from financial institutions as at 31 December 2022 and 2021 comprise the following:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Promissory notes	396,500,000	214,500,000	200,000,000	-
<u>Less</u> Prepaid transaction cost for borrowings	(297,534)	-	(297,534)	-
	396,202,466	214,500,000	199,702,466	-

Outstanding promissory notes as at 31 December 2022 are promissory notes denominated in Thai Baht and are secured by the same collateral as the long-term loans from financial institutions (Note 30). The promissory notes have an interest rate at 3.20% to MLR% minus 2.50% per annum and are due for repayment within 90 days (31 December 2021: interest rates of MLR% minus 2.50% per annum and are due for repayment within 90 days).

The movements of promissory notes for the years ended 31 December 2022 and 2021 are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Opening balance for the year	214,500,000	265,300,000	-	-
Additions during the year	1,486,700,000	1,718,300,000	200,000,000	-
Repayments during the year	(1,304,700,000)	(1,769,100,000)	-	-
Prepaid transaction cost for borrowings	(300,000)	-	(300,000)	-
Change in non-cash transactions:				
Amortisation of prepaid transaction cost from borrowings	2,466	-	2,466	-
Closing balance for the year	396,202,466	214,500,000	199,702,466	-

26 Trade and other payables

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Trade accounts payable				
- third party	258,057,235	147,729,740	-	-
- related party (Note 41 a))	15,514,107	14,575,668	-	-
Other accounts payable				
- third party	11,910,668	16,831,316	1,361,342	518,524
- related party (Note 41 a))	4,821,627	9,373,576	-	-
Accounts payable from purchases of fixed assets				
- third party	8,318,063	17,893,225	-	-
- related party (Note 41 a))	7,695,655	15,708,518	-	-
Accrued expenses	62,474,515	43,346,832	1,855,335	1,817,337
Accrued bonus	9,800,000	9,703,095	6,500,000	6,000,000
Accrued director remuneration (Note 41 a))	1,108,600	202,200	-	-
Accrued repair and maintenance expense				
- third party	20,976,118	17,481,893	-	-
Accrued interest expense				
- financial institutions	5,541,886	611,667	52,603	-
Dividend payable	345,551	201,034	345,551	201,034
Treasury shares payable	94,438,170	-	94,438,170	-
Advance received				
- installing electronics system fee - third party	6,450,540	-	-	-
- space rental - third party	13,158	13,158	-	-
- land rental - a related party (Note 41 a))	87,358	87,358	-	-
Retention				
- third party	1,108,094	2,054,466	-	-
- related party (Note 41 a))	-	31,877,039	-	-
Employee guarantee	44,480	112,832	-	-
	508,705,825	327,803,617	104,553,001	8,536,895

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27 Other current liabilities

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Accrued withholding tax	6,776,094	4,278,194	553,790	672,408
Accrued social security fund	719,796	1,165,817	24,780	43,100
	7,495,890	5,444,011	578,570	715,508

28 Provision for power plant maintenance under concession arrangement

The movements of provision for power plant maintenance under concession arrangement for the years ended 31 December 2022 and 2021 are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Opening balance for the year	32,009,518	32,413,601	-	-
Additional provision	11,414,000	12,536,942	-	-
Repayments during the year	(26,060,000)	-	-	-
Reversal of provision	-	(12,941,025)	-	-
Closing balance for the year	17,363,518	32,009,518	-	-
<u>Less</u> Current portion	-	(26,608,975)	-	-
Closing balance for the year	17,363,518	5,400,543	-	-

29 Leases liabilities (net)

Lease liabilities (net) as at 31 December 2022 and 2021 are from assets rental agreements as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Lease liabilities	44,286,912	37,757,661	5,867,287	7,366,440
<u>Less</u> Deferred interest expense	(10,816,748)	(11,189,762)	(465,174)	(721,421)
Present value of lease liabilities	33,470,164	26,567,899	5,402,113	6,645,019
<u>Less</u> Current portion (net)	(3,189,070)	(1,662,838)	(1,293,789)	(1,239,906)
	30,281,094	24,905,061	4,108,324	5,405,113

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The movements of leases liabilities (net) for the years ended 31 December 2022 and 2021 are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Opening balance for the year	26,567,899	25,798,032	6,645,019	5,412,648
Cashflows:				
Additions during the year	9,672,393	2,241,248	-	2,241,248
Repayments during the year	(3,995,058)	(2,608,744)	(1,499,153)	(1,278,810)
Changes in non-cash transactions:				
Interest paid on liabilities under finance lease agreements	1,224,930	1,137,363	256,247	269,933
Closing balance for the year	33,470,164	26,567,899	5,402,113	6,645,019

As at 31 December 2022 and 2021, minimum payments to be made in subsequent years are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Due				
Within 1 year	4,321,826	2,405,030	1,507,654	1,510,654
Later than 1 year but not later than 5 years	17,453,309	12,145,517	4,359,633	5,855,786
Later than 5 years	22,511,777	23,207,114	-	-
	44,286,912	37,757,661	5,867,287	7,366,440

30 Long-term loans from financial institutions (net)

Outstanding balances of long-term loans from financial institutions (net) as at 31 December 2022 and 2021 comprise the following:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Long-term loans from financial institutions	4,704,157,288	4,584,162,178	-	-
Effect from effective interest rate method calculation	(6,092,015)	9,489,317	-	-
<u>Less</u> Prepaid transaction cost for borrowings	(52,885,149)	(54,597,518)	-	-
Long-term loans from financial institutions (net)	4,645,180,124	4,539,053,977	-	-
<u>Less</u> Current portion (net)	(795,041,768)	(702,118,153)	-	-
	3,850,138,356	3,836,935,824	-	-

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The movements of long-term loans from financial institutions (net) for the years ended 31 December 2022 and 2021 are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Opening balance for the year	4,539,053,977	3,657,157,322	-	-
Cashflow:				
Additions during the year	862,086,400	1,492,233,243	-	-
Repayments during the year	(699,575,800)	(532,561,400)	-	-
Prepayments	(42,515,490)	(64,962,693)	-	-
Transaction cost from borrowings	(9,960,472)	(17,780,000)	-	-
Change in non-cash transactions:				
Amortisation of prepaid transaction cost from borrowings	13,670,853	12,592,298	-	-
Reclassify prepaid transaction cost from borrowings	(1,998,012)	(10,134,107)	-	-
Effect from effective interest rate method calculation	(15,581,332)	2,509,314	-	-
Closing balance for the year	4,645,180,124	4,539,053,977	-	-

The minimum payment under long-term loan agreements from financial institutions as at 31 December 2022 and 2021 are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Due within 1 year	799,148,143	706,091,291	-	-
Due later than 1 year but not later than 5 years	2,153,268,545	2,160,723,099	-	-
Due later than 5 years	1,751,740,600	1,717,347,788	-	-
	4,704,157,288	4,584,162,178	-	-

Outstanding balances of long-term loans from financial institutions as at 31 December 2022 and 2021 comprise the following:

	2022 Baht	2021 Baht
Subsidiaries		
Asia Clean Energy Company Limited	248,586,400	147,500,000
Advance Clean Power Company Limited	1,191,942,388	667,230,388
Advance Agro Power Plant Company Limited	-	39,115,491
Alliance Clean Power Company Limited	941,550,500	1,243,304,299
Advance Agro Asia Company Limited	2,217,120,000	2,337,072,000
Advance Asia Power Plant Company Limited	104,958,000	149,940,000
	4,704,157,288	4,584,162,178

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The requirements and conditions for long-term loans from local financial institutions as at 31 December 2022 and 2021 comprise the following:

Direct subsidiary - Asia Clean Energy Company Limited

Contract no.	Outstanding loans		Loans purpose	Facilities (Million Baht)	Interest rate	Repayment conditions	Guarantees and collaterals
	2022 (Million Baht)	2021 (Million Baht)					
1	2.5	47.5	Repayment of shares and to increase the registered capital of Advance Bio Asia Co., Ltd., and for the company's financial support	180.0	Prime rate minus 2.50% per annum from 14 February 2020 which is the day the loan first withdrawn to maturity date. Later, on 24 February 2021, there was the 1st amendment to credit agreement specifying a new interest rate. The new conditions were: 1) From the day the loan first withdrawn to 23 February 2021: Prime rate minus 2.5% per annum. 2) After 24 February 2021: interest rate 2.75% per annum.	Agreement dated 28 January 2020, monthly repayment for principal and interests at the last business day after the first drawdown, totally 48 installments.	Loans contract no. 1 is secured: 1) by the Advance Bio Asia Company Limited's land, buildings, and machines (Note 18) 2) by business collateral registration of Advance Bio Asia Company Limited's machines and savings account 3) by all of the Advance Bio Asia Company Limited's registered share capital (Note 16) 4) by transfer the rights on Power Purchase Agreement ("PPA") of Advance Bio Asia Company Limited 5) by Absolute Clean Energy Public Company Limited
2	246.1	100.0	Payment for paid-up share capital of other subsidiaries for developing projects under the loan applicants' business development plans	1,300.0	MLR interest rate minus 2.35% per annum	Agreement dated 22 December 2021, monthly repayment for principal and interests at the last business day after the first drawdown, totally 60 installments.	Loans contract no. 2 is secured: 1) by all of the 5 indirect subsidiaries' registered share capital which are Advance Clean Power Company Limited, Advance Agro Power Plant Company Limited, Alliance Clean Power Company Limited, Advance Agro Asia Company Limited and Advance Asia Power Plant Company Limited. 2) by the companies' bank account's original books 3) by transfer the rights of dividend received 4) by promissory notes 5) by subordinated loans agreements
Total	248.6	147.5					

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Indirect subsidiary - Advance Clean Power Company Limited

Contract no.	Outstanding loans		Loans purpose	Facilities (Million Baht)	Interest rate	Repayment conditions	Guarantees and collaterals
	2022 (Million Baht)	2021 (Million Baht)					
1	203.8	290.7	To refinance from existing loan	874.0	MLR minus 0.50% to 1.00% per annum Then, there was the 5 th amendment to credit agreement specifying a new interest rate. The new conditions were: 1) 2 years from the signing date of the underwriter's appointment for the execution of IPO process: MLR minus 2.50% per annum 2) After 2 years: MLR minus 1.75% per annum Later, there was the 8 th and 9 th amendments to credit agreement specifying a new interest rate. The new conditions were MLR minus 2.75% per year from 1 February 2022.	Agreement dated 25 February 2015, monthly repayment for principal and interests at the last business day after the first drawdown, totally 120 installments.	Loans contract no. 1 and no. 2 are secured: 1) by the company's land, buildings, and machines (Note 17 and 18) 2) by the company's and Shaiyo AA Company Limited's, a related party, directors. However, the agreement dated 11 April 2018, the guarantee by the company's and the related party's directors have been cancelled. 3) by all of the company's registered share capital (Note 16) 4) by the company's bank account's original books (Note 11) 5) by transfer the rights on Power Purchase Agreement ("PPA") 6) by the power of attorney to receive payments from PPA 7) by transfer the rights on the agreements of power plants at Ban Bueng, Chonburi, Pon Thong, Roi-et and Bo Phloi, Kanchanaburi. 8) by prepare the insurance policy 9) by the company's permitted investments (if any) 10) by transfer rights on land rental only for loan contract no. 2 11) by bank guarantee's claim only for loan contract no. 2 12) by Collateral Deposit Agreement
2	308.1	376.5	To pay for the biomass power plant construction, Bo Phloi	659.0	Credit facility for biomass power plant construction bears an interest rate at MLR minus 0.50% to 0.75% per annum. Then, there was the 2 nd amendment to credit agreement specifying a new interest rate. The new conditions were: 1) 2 years from the signing date of the underwriter's appointment for the execution of IPO process: MLR minus 2.50% per annum 2) After 2 years: MLR minus 1.75% per annum Later, there was the 5 th amendment to credit agreement specifying a new interest rate. The new conditions were MLR minus 2.75% per year from 1 February 2022.	Agreement dated 6 September 2016, monthly repayment for principal and interests at the last business day after the first drawdown, totally 120 installments.	

Absolute Clean Energy Public Company Limited

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Contract no.	Outstanding loans		Loans purpose	Facilities (Million Baht)	Interest rate	Repayment conditions	Guarantees and collaterals
	2022 (Million Baht)	2021 (Million Baht)					
3	680.0	-	To repay the cost of construction of the Khlong Khlung Biomass Power Plant Project which the shareholders of the loan applicant made advance payments	786.0	a) Interest payment at the rate of MLR minus 2.50% per year for five years from the date of first drawdown of the loan b) Interest payment at the rate of MLR minus 2.0% per year for the period specified later in clause (a) of this contract onwards	Agreement dated 21 April 2022, monthly principal and interest payments for 115 instalments counting from the end of the loan drawdown period or 10 years from the date of commencement of commercial electricity sales of the Khlong Khlung Biomass Power Plant Project	Loan agreement No. 3 was secured: 1) by the company's land, buildings, and machines (Note 17 and 18) 2) contract guarantee by Asia Clean Energy Co., Ltd. 3) by all of the company's registered share capital (Note 16) 4) by the company's bank account's original books (Note 11) 5) by transfer the rights on Power Purchase Agreement ("PPA") 6) by the power of attorney to receive payments from PPA 7) by transfer the rights on the agreements of power plants at Khlong Khlung Kamphaeng Phet. 8) by prepare the insurance policy 9) by the company's permitted investments (if any) 10) by transfer rights on land rental 11) by bank guarantee's claim 12) by Collateral Deposit Agreement
Total	1,191.9	667.2					

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Indirect subsidiary - Alliance Clean Power Company Limited

Contract no.	Outstanding loans		Loans purpose	Facilities (Million Baht)	Interest rate	Repayment conditions	Guarantees and collaterals
	2022 (Million Baht)	2021 (Million Baht)					
1 a)	105.4	152.1	Repayment of loan and interest for power plant construction in Si Chiang Mai, Nong Khai	480.0	MLR minus 1.00% per annum Then, there was the 4 th amendment to credit agreement specifying a new interest rate. The new conditions were: 1) 2 years from the signing date of the underwriter's appointment for the execution of IPO process: MLR minus 2.50% per annum 2) After 2 years: MLR minus 1.75% per annum Later, there was the 7 th and 8 th amendments to credit agreement specifying a new interest rate. The new conditions were MLR minus 2.75% per year from 1 February 2022.	Agreement dated 15 January 2015, repayment for interest is on monthly basis since the month the loan first withdrawn. The principal repayment is made in total 120 monthly installments from January 2015 to December 2024.	Loans contract no. 1 a) and 1 b) are secured: 1) by the company's land, buildings and machine (Note 18) 2) by all of the company's registered share capital (Note 16) 3) by transfer the rights on Power Purchase Agreement ("PPA") 4) by the power of attorney to receive payments from PPA 5) by transfer the rights on supply and installation power plant equipment agreement 6) by transfer the rights on insurance contracts 7) by the company's director and Shaiyo AA Company Limited, which is a related party. However, the agreement dated 11 April 2018, the guarantee by the company's and related party's directors have been cancelled. 8) by the company's bank account's original books (Note 11) 9) by the company's permitted investments (if any). 10) by Collateral Deposit Agreement
1 b)	156.6	213.5	For power plant construction in Sirindhorn, Ubon Ratchathani	545.0	MLR minus 1.00% per annum Then, there was the 4 th amendment to credit agreement specifying a new interest rate. The new conditions were: 1) 2 years from the signing date of the underwriter's appointment for the execution of IPO process: MLR minus 2.50% per annum 2) After 2 years: MLR minus 1.75% per annum Later, there was the 7 th amendment to credit agreement specifying a new interest rate. The new conditions were MLR minus 2.75% per year from 1 February 2022.	Agreement dated 15 January 2015, repayment for interest is on monthly basis since the month the loan first withdrawn. The principal repayment is made in total 120 monthly installments since July 2015 and repaid total withdrawn amount within August 2025.	

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Contract no.	Outstanding loans		Loans purpose	Facilities (Million Baht)	Interest rate	Repayment conditions	Guarantees and collaterals
	2022 (Million Baht)	2021 (Million Baht)					
2	60.7	168.6	For municipal solid waste power plant construction in Nonthon, Mueang, Khon Kaen	615.0	<p>MLR minus 1.00% per annum</p> <p>Then, there was the 2nd amendment to credit agreement specifying a new interest rate. The new conditions were:</p> <p>1) 2 years from the signing date of the underwriter's appointment for the execution of IPO process: MLR minus 2.50% per annum</p> <p>2) After 2 years: MLR minus 1.75% per annum</p> <p>Later, there was the 5th amendment to credit agreement specifying a new interest rate. The new conditions were MLR minus 2.75% per year from 1 February 2022.</p>	<p>Agreement dated 4 December 2015, repayment for interest is on monthly basis since the month the loan first withdrawn. The principal repayment is made in total 84 monthly installments since 3 months after COD or October 2016 whichever comes first and repaid total withdrawn amount within 87 months after COD or 99 months after first repayment or October 2023 whichever comes first.</p>	<p>Loans contract no. 2 are secured :</p> <ol style="list-style-type: none"> 1) by the company's machines and equipment (Note 18) 2) by all of the company's registered share capital (Note 16) 3) by transfer the rights on Power Purchase Agreement ("PPA") 4) by the power of attorney to receive payments from PPA 5) by transfer the leasehold right under buildings and property rental, land rental and waste management service by generating electricity agreements, and power plant supply and installation equipment 6) by transfer the rights on insurance contracts 7) by the company's director and Shaiyo AA Company Limited and Global Woodchip Trading Company Limited, which are related parties. However, the agreement dated 11 April 2018, the guarantee by the Company's and the related parties' directors were cancelled. 8) by transfer the company's bank account's original books (Note 11) 9) by the company's permitted investments (if any) 10) by agreement to be provided financial supports by Advance Agro Power Plant Company Limited, Advance Asia Power Plant Company Limited and Advance Clean Power Company Limited which are subsidiaries of Asia Clean Energy Company Limited (Note 43.2) 11) by Collateral Deposit Agreement

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Contract no.	Outstanding loans		Loans purpose	Facilities (Million Baht)	Interest rate	Repayment conditions	Guarantees and collaterals
	2022 (Million Baht)	2021 (Million Baht)					
3 a)	618.9	685.7	For municipal solid waste power plant construction in Saithai, Mueang, Krabi	706.0	MLR minus 2.50% per annum from 11 September 2020, the day the loan first withdrawn to 1 year after the commercial operation date which is 28 December 2020. After that, MLR minus 1.25% per annum shall be applied Later, there was the 1 st amendment to credit agreement specifying a new interest rate. The new conditions were: 1) MLR minus 2.50% per year from 11 September 2020, which was the first drawdown date, until the maturity date of one year from 28 December 2020, which was the commercial operation date 2) MLR minus 1.25% per year for the period after item (1) until 1 February 2022 3) MLR minus 2.50% per year from 1 February 2022 until 31 December 2027 4) MLR minus 2.00% per year for the period after item (3) onwards.	Agreement dated 2 June 2020, repayment for interest is on monthly basis since the month the loan first withdrawn. The principal repayment is made in total 115 monthly installments since 6 months after COD or February 2022 whichever comes first and repaid total withdrawn amount within 10 years after COD or 11 years 5 months from signing date whichever comes first.	Loans contract no. 3 a) and 3 b) are secured : 1) by the company's machines and equipment (Note 18) 2) by all of the company's registered share capital (Note 16) 3) by transfer the rights on Power Purchase Agreement ("PPA") 4) by the power of attorney to receive payments from PPA 5) by transfer the leasehold right under buildings and property rental, land rental and waste management service by generating electricity agreements, and power plant supply and installation equipment 6) by transfer the rights on insurance contracts 7) by Asia Clean Energy Company Limited, parent company 8) by transfer the company's bank account's original books (Note 11) 9) by the company's permitted investments (if any) 10) by agreement to be provided financial supports by Asia Clean Energy Company Limited, the parent company (Note 43.2) 11) by Collateral Deposit Agreement 12) transferred the right by of subordinated loan pledged promissory notes
3 b)	-	23.4	To pay value added tax for municipal solid waste power plant construction in Saithai, Mueang, Krabi	23.4	MLR minus 2.50% per annum from 11 September 2020, the day the loan first withdrawn onwards	Agreement dated 2 June 2020, repayment for interest is on monthly basis since the month the loan first withdrawn. The principal repayment is made within 2 years since COD or 3 years 5 months from signing date whichever comes first.	
Total	941.6	1,243.3					

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Indirect subsidiary - Advance Agro Asia Company Limited

Contract no.	Outstanding loans		Loans purpose	Facilities (Million Baht)	Interest rate	Repayment conditions	Guarantees and collaterals
	2022 (Million Baht)	2021 (Million Baht)					
1	2,217.1	2,337.1	<p>Payment for power plant construction in Koh Khanun, Phanom Sarakham, Chachoengsao</p> <p>Later, there is amended credit facilities agreement dated 17 February 2020 which divided the credit facilities to additional 2 credit facilities.</p> <p>1) Tranche D for repayment of loan to Asia Clean Energy Company Limited which is effective from 17 February 2020 to December 2021</p> <p>2) Tranche E for repayment of Tranche D which is effective from January 2022 to December 2033</p>	2,940.0	<p>MLR minus 0.50% - 1.00% per annum</p> <p>Then, there was the waiver letter No.AAA-FA012/2019 dated 1 July 2019 specifying a new interest rate.</p> <p>The conditions were:</p> <p>1) 2 years from the signing date of the underwriter's appointment for the execution of IPO process: MLR minus 2.00% per annum</p> <p>2) After 2 years: MLR minus 1.50% per annum</p> <p>Later, there is amended credit facilities agreement dated 17 February 2020 which the interest rate is as follows:</p> <p>1) Tranche D's interest rate is MLR minus 2.50%</p> <p>2) Tranche E's interest rate is MLR minus 2.50% since January 2022 to December 2023 and then, MLR minus 1.50% until the end of contract</p> <p>Later, there was the 1st amendment to credit agreement specifying a new interest rate. The new conditions were:</p> <p>1) MLR minus 2.50% from the first draw down of Tranche E long-term loan until 31 December 2027</p> <p>2) MLR minus 2.00% from 1 January 2028 onwards.</p>	<p>The contract dated 3 April 2015 with monthly interest payment starting from 6 months after COD date. The first repayment of principal is no later than 30 June 2017.</p> <p>At the Board of Directors' Meeting of Advance Agro Asia Company Limited No. 10/2562 on 12 December 2019, the Board of Directors had approved to prepay a loan to a financial institution which is in accordance with the loan agreement dated 3 April 2015. The prepayment was made using cash received from short-term loan from Asia Clean Energy Company Limited. However, under the condition that Advance Agro Asia Company Limited has to amend the loan agreement made with a financial institution so that the Group do not have a risk regarding the readiness of the sources of funds to be used in investing in new project according to the objectives of using the proceeds from the sale of newly issued shares offered to the public for the first time of the Company. On 26 December 2019, Advance Agro Asia Company Limited partly prepaid the long-term loan of Baht 2,240 million and on 17 February 2020, Advance Agro Asia Company Co., Ltd. had entered into the loan amendment agreement dated 3 April 2015 with the full repayment of the remaining long-term loan.</p> <p>From amended credit facilities agreement dated 17 February 2020, the Company must repay loan for Tranche D until the outstanding balance of the loan is equal to Tranche E by December 2021 and must draw down Tranche E totalling Baht 2,337 million on 1 January 2022. The principal repayment of Tranche E is made in total 144 monthly installment from January 2022 to December 2033.</p>	<p>Loans contract no. 1 and 2 are secured:</p> <ol style="list-style-type: none"> 1) by the company's land, buildings and machines (Note 18) 2) by the Company's director and Shaiyo AA Company Limited which is related party. However, the agreement dated 11 April 2018, the guarantees by the Company's director and the related party have been cancelled. 3) by transfer the rights on EPC contract, O&M, Leasing contract, Gas Purchase Agreement and Power Purchase Agreement with Electricity Generating Authority of Thailand (EGAT) 4) by all of the company's registered share capital (Note 16) 5) by the company's bank account's original books (Note 11) 6) by transfer the rights claiming from external parties to the financial institution 7) by prepare insurance contracts
Total	2,217.1	2,337.1					

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Indirect subsidiary - Advance Asia Power Plant Company Limited

Contract no.	Outstanding loans		Loans purpose	Facilities (Million Baht)	Interest rate	Repayment conditions	Guarantees and collaterals
	2022 (Million Baht)	2021 (Million Baht)					
1 a)	85.3	121.9	Refinance loan from existing loan	358.5	MLR minus 1.00% per annum Then, there was the 5th amendment to credit agreement specifying a new interest rate. The new conditions were: 1) 2 years from the signing date of the underwriter's appointment for the execution of IPO process: MLR minus 2.50% per annum 2) After 2 years: MLR minus 1.75% per annum	Agreement dated 25 February 2015, repayment for interest is on monthly basis since the month the loan first withdrawn. The principal is repaid in 120 monthly installments from March 2015 to February 2025.	Loans contracts no. 1 a) and 1 b) are secured: 1) by the company's land, buildings and machines (Note 17 and 18) 2) by all of the company's registered share capital (Note 16) 3) by transfer the rights on Power Purchase Agreement ("PPA") 4) by the power of attorney to receive payments from PPA 5) by transfer the rights on agreement related to power plant at Namphong, Khon Kaen 6) by transfer the rights in insurance contracts 7) by the company's director and Shaiyo AA Company Limited, which is a related party. However, the agreement dated 11 April 2018, the guarantee by the company's and the related party's directors were cancelled. 8) by the company's bank account's original books (Note 11) 9) by the Company's permitted investments (if any). 10) by Collateral Deposit Agreement
1 b)	19.7	28.1	Repayment of interest, bank fee and other expenses from refinance and loan to Asia Clean Energy Company Limited for financial support in other projects	82.5	Later, there was the 8 th and 9 th amendment to credit agreement specifying a new interest rate. The new conditions were MLR minus 2.75% per year from 1 February 2022.		
Total	105.0	150.0					
	4,704.2	4,584.2					

The Group is subject to the terms of loan agreements, which require each company to mortgage, and pledge land, buildings and machines as collaterals, and restricted deposits at the financial institutions to be reserved for the repayment of principal and interest on loans. These reserves were from revenue received from the sales of electricity (Note 11). In addition, the Group is required to transfer right in Power Purchase Agreement and insurance policy to the financial institutions. Besides, the Group can comply with debt covenant which require the Group to maintain financial ratios, proportion of shareholding of management and other conditions specified in each loan agreement.

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The carrying amount and fair value of long-term loans as at 31 December 2022 and 2021 are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Long-term loans - carrying amount	4,645,180,124	4,539,053,977	-	-
Long-term loans - fair value	4,373,334,472	4,273,491,528	-	-

The fair values of long-term loans are based on discounted cash flow using a discount rate based upon the borrowing rate, referred to commercial bank rate, which the management expects that it would be available to the Group at the statement of financial position date. The fair values are within level 2 of the fair value hierarchy.

The Group's interest rates risks from loans are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Loans at floating interest rates	4,704,157,288	4,584,162,178	-	-

The effective interest rates as at 31 December 2022 and 2021 are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 %	2021 %	2022 %	2021 %
Loans from financial institutions	2.50 to 4.35	2.75 to 4.02	-	-

Unused credit facilities

The Groups unused credit facilities as at 31 December 2022 and 2021 comprise the following:

	Consolidated financial statement									
	2022					2021				
	Bank overdrafts Baht	Promissory notes Baht	Letters of guarantee Baht	Long-term loans Baht	Revolving loans Baht	Bank overdrafts Baht	Promissory notes Baht	Letter of guarantees Baht	Long-term loan Baht	Revolving loans Baht
Floating interest rates										
- Due within 1 year										
Currency : Baht	-	-	-	-	557,533,000	-	-	-	-	366,520,000
Currency : US Dollar	-	-	-	-	96,853,545	-	-	-	-	100,526,072
- Due later than 1 year										
Currency : US Dollar	50,000,000	323,347,575	19,466,231	1,123,913,600	-	50,000,000	285,347,575	19,466,231	1,252,000,000	-

*Revolving loans comprise credit facilities for letters of guarantee, short-term loans and forward contracts.

Separate financial statement

As at 31 December 2022 and 2021, the Company has no loan agreement with a financial institution. Therefore, there is no unused credit facilities.

Notes to the Consolidated and Separate Financial Statements

For the year ended 31 December 2022

31 Employee benefit obligations

The amounts recognised in the statements of financial position are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Present value of unfunded obligations	11,216,039	8,947,511	5,187,682	3,675,518

Movements of employee benefit obligations for the years ended 31 December 2022 and 2021 are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Opening balance for the year	8,947,511	7,813,701	3,675,518	3,495,896
Current service cost	1,250,606	993,715	273,002	248,979
Interest cost	197,839	119,780	76,601	50,930
	10,395,956	8,927,196	4,025,121	3,795,805
Remeasurement of employee benefit obligations				
(Gain)/loss from change in demographic assumption	(1,183,901)	(171,844)	(955,272)	649
Gain from change in financial assumption	(1,078,373)	(959,701)	(457,634)	(427,165)
Loss from change in experience	3,082,357	1,151,860	2,575,467	306,229
	820,083	20,315	1,162,561	(120,287)
Closing balance for the year	11,216,039	8,947,511	5,187,682	3,675,518

Principal actuarial assumptions used for employee benefit obligations are as follows:

	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
Discount rate (%)	2.39 to 4.38	1.94	2.82	1.94
Expected future salary increase (%)	4.34	4.61	4.34	4.61
Staff turnover rate (%)	0.00 to 100.00	0.00 to 100.00	0.00 to 100.00	0.00 to 100.00

Notes to the Consolidated and Separate Financial Statements

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Sensitivity analysis for principal actuarial assumptions as at 31 December 2022 and 2021 are as follows:

Consolidated financial statements			
2022			
Effect on employee benefit obligations due to			
Change in assumption	Increase from change in assumption		Decrease from change in assumption
	Baht		Baht
Discount rate	0.50%	(310,533)	334,508
Salary increase rate	0.50%	311,735	(292,537)
Staff turnover rate	0.50%	(340,919)	172,310
Consolidated financial statements			
2021			
Effect on employee benefit obligations due to			
Change in assumption	Increase from change in assumption		Decrease from change in assumption
	Baht		Baht
Discount rate	0.50%	(219,213)	233,992
Salary increase rate	0.50%	211,647	(200,676)
Staff turnover rate	0.50%	(235,789)	160,177

The above sensitivity analysis is based on a change in one of assumptions while holding all other assumptions constant. In practice, this is unlikely to occur, and changes in some of the assumptions may be correlated. The calculation method for sensitivity analysis of the defined benefit obligation which affect the principal actuarial assumptions is the same method as the calculation of retirement benefit obligation recognised in the statement of financial position at the end of accounting period.

The methods and types of assumptions used in preparing the sensitivity analysis do not change from the previous year.

The Group has various risks related to employee retirement benefits. The significant risk is the change in the real rate of return of bond. The decrease in real rate of return from government bond resulted of increase in employee benefit obligations.

The weighted average duration of the defined benefit obligation of the Group is 6 to 29 years (2021 : 10 years).

The analysis of undiscounted retirement benefits' maturity as at 31 December 2022 and 2021 comprises the following:

	Post-employment benefit (Baht)	
	Consolidated financial statements	
	2022 Baht	2021 Baht
Due within 1 year	6,252,259	3,496,555
Due later than 1 year but not later than 5 years	1,106,010	3,898,503
Due later than 5 years	15,786,712	7,284,532
	23,144,981	14,679,590

Notes to the Consolidated and Separate Financial Statements

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32 Share capital

On 15 June 2022, the Board of Directors' Meeting No. 4/2022 resolved to allow the Company to repurchase its ordinary shares for the purpose of financial management with the details as follows:

- The maximum amount used to buy back shares is Baht 1,000 million.
- The number of shares to be repurchased does not exceed 400 million shares, the par value per share is Baht 0.50 and the number of shares to be repurchased does not exceed 3.93 percent of the total issued shares.
- Method for repurchasing shares is buying back on the Stock Exchange of Thailand
- Period for the share repurchase is within six months from 1 July 2022 to 31 December 2022.
- Criteria for determining the price of repurchased shares is by taking the average share price of the past 30 days before the Company discloses the information to consider in determining the repurchase price. The repurchase price shall not exceed the average closing price of five business days prior to each repurchase date, plus 15% of the said average closing price.
- Period for the sale of repurchased shares is within three months from the completion of the share repurchase but not more than three years. If not sold out within that time, the Company will write off the remaining treasury shares. However, the treasury shares held by the Company will not be counted as a quorum at the shareholders' meeting and will not have voting rights or the right to receive dividends.

The movement of treasury shares for the year ended 31 December 2022 is as follows:

	Consolidated and Separate financial statements	
	Number of shares	Amount of treasury shares Baht
Opening balance for the year	-	-
Repurchase during the year	100,365,600	268,010,560
Closing balance for the year	100,365,600	268,010,560

During the year ended 31 December 2022, the Company repurchased 100,365,600 shares of its own shares. The total amount paid to repurchase the shares was Baht 268,010,560 and has been deducted from equity. These shares have not been cancelled and are held as treasury shares. As such the Company has the right to reissue these shares at a later date.

In accordance with the regulations of the Stock Exchange of Thailand, the Company has to reserve the unappropriated retained earnings to the treasury shares reserve until the treasury shares are all sold or when the decrease in the paid-up capital of the treasury shares.

33 Dividend

On 28 April 2022, at the Annual General Shareholders' Meeting of the Company, the shareholders approved the payment of dividend from the Company's operating result for the year ended 31 December 2021 and unappropriated retained earnings as at 31 December 2021 to shareholders at Baht 0.02 per share, amounting to Baht 203,519,999. During the period ended 31 December 2022, the dividend was paid to authorised shareholders amounting to Baht 203,506,838. The dividend was paid to shareholders on 11 May 2022.

On 28 April 2021, at the Annual General Shareholders' Meeting of the Company, the shareholders approved the payment of dividend from the Company's operating result during April to December 2020 and unappropriated retained earnings as at 31 December 2020 to shareholders at Baht 0.018 per share, amounting to Baht 183,166,946. The dividend was paid to shareholders on 13 May 2021.

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For the year ended 31 December 2022

34 Legal Reserve

According to Public Limited Company Act, the Company must appropriate part of its annual net profits to reserve fund in an amount of not less than five percent of the annual net profits with the deduction therefrom the amount representing the accumulated loss carried forwards (if any) until this reserve fund reaches the amount of not less than ten percent of the registered capital, unless a greater amount of the reserve fund is required by the articles of association of the company or other laws. The legal reserve is non-distributable, and must be approved by the Annual General Meeting of Shareholder.

As at 31 December 2022, unappropriated retained earnings for the consolidated financial statements includes legal reserve of 9 subsidiaries amounting to Baht 1,127,151,140 (31 December 2021 : legal reserve of 9 subsidiaries amounting to Baht 791,153,899).

35 Sales of goods and services

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Sales of electricity				
- Provincial Electricity Authority	3,345,655,094	3,396,682,680	-	-
- Electricity Generating Authority of Thailand	204,657,081	25,527,753	-	-
- third party	10,082,137	10,159,350	-	-
- related party (Note 41 b))	44,394,111	37,406,156	-	-
Sales of electricity - FiT Premium	93,258,585	114,441,905	-	-
Revenue from service under a Power Purchase Agreement	2,620,716,302	1,540,768,277	-	-
Adder	123,620,700	131,983,008	-	-
Revenue from waste management				
- third party	55,715,326	50,535,469	-	-
Sales of steam				
- related party (Note 41 b))	3,971,480	8,380,863	-	-
Management service income				
- related party (Note 41 b))	-	-	82,800,000	80,880,000
	6,502,070,816	5,315,885,461	82,800,000	80,880,000

Sales of FiT Premium electricity is support revenue from the Provincial Electricity Authority (PEA) for projects which are 1) biomass power plants entering into Power Purchase Agreements with the PEA as Very Small Power Producers (VSPP). As announced by the Energy Regulatory Commission, 'The pricing of Electricity Purchasing in Feed - in Tariff system B.E. 2559', FiT Premium is Baht 0.30 per unit and is effective for eight years from the commercial operation date (COD). 2) municipal solid waste power plant at Krabi entering into Power Purchase Agreement with the PEA as Very Small Power Producers (VSPP). As announced by the Energy Regulatory Commission, 'Power Procurement from Municipal Solid Waste Power Projects under the Feed-in Tariff (FiT) Scheme B.E. 2559 (2016)', FiT Premium is Baht 0.70 per unit and is effective for eight years from the commercial operation date (COD).

Adder is additional revenue from solid waste power plant at Khon Kaen according to a Power Purchase Agreement with Provincial Electricity Authority (PEA) as a Very Small Power Producers (VSPP). The producer will receive the adder of Baht 3.50 per unit for seven years from the commercial operation date (COD).

Cost of sales and services

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Cost of sales	(2,632,527,914)	(1,910,068,544)	-	-
Cost of services	(2,411,802,366)	(1,897,900,707)	(64,733,403)	(61,332,557)
	(5,044,330,280)	(3,807,969,251)	(64,733,403)	(61,332,557)

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For the year ended 31 December 2022

36 Other income

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Interest income				
- financial institutions	2,105,813	1,661,311	25,307	28,331
- related party (Note 41 b))	-	-	12,986	-
Rental income				
- third party	26,316	26,316	-	-
- related party (Note 41 b))	373,960	346,835	-	-
Income from sales of spare parts				
- related party (Note 41 b))	1,031,879	968,710	-	-
Income from sales of raw water and industrial water				
- related party (Note 41 b))	3,710,680	532,072	-	-
Income from consulting, installing and maintenance				
- related party (Note 41 b))	-	1,145,950	-	-
Income from waste management	2,533,082	911,520	-	-
Gain on fixed assets disposal (Note 41 b))	132,269	-	-	-
Gain on sales of short-term investments	404,851	98,731	-	-
Others	6,637,527	7,059,241	2,380,718	-
	16,956,377	12,750,686	2,419,011	28,331

37 Expenses by nature

The significant expenses for the years ended 31 December 2022 and 2021 are classified by nature as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Fuel raw materials and consumable materials usage	(3,679,069,777)	(2,532,171,912)	-	-
Depreciation and amortisation charges	(729,545,880)	(667,204,810)	(5,814,823)	(5,729,789)
Staff cost and other benefits	(392,396,846)	(366,173,985)	(59,040,019)	(54,660,354)
Charges of engineering and other services	(244,801,931)	(214,135,511)	(13,900,602)	(11,343,219)
Rental, electricity and utilities expenses	(64,688,147)	(62,628,787)	(7,776,460)	(6,912,998)
Administrative expenses	(72,112,004)	(71,573,556)	-	-
Repair and maintenance of power plant	(140,582,743)	(139,508,138)	-	-
Loss on write-off of fixed assets	(4,315,758)	(1,552,490)	-	-
Reversal (loss) of impairment of fixed assets	(18,508,186)	1,191,550	-	-

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38 Finance costs

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Interest expense from borrowings				
- financial institutions	(115,721,053)	(126,390,216)	(52,603)	-
- related party (Note 41 b))	-	-	(34,739)	-
Interest expense from liabilities under finance lease agreements	(1,224,930)	(1,137,363)	(256,247)	(269,933)
Commitment fee	(1,473,175)	(1,253,585)	-	-
Amortisation of prepaid transaction cost from borrowings	(13,673,319)	(12,592,298)	(2,466)	-
	(132,092,477)	(141,373,462)	(346,055)	(269,933)

39 Income (expense) tax

Reconciliations of income tax for the years ended 31 December 2022 and 2021 are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Current tax on profits for the year	(38,190,407)	(27,810,668)	-	-
Write-off withholding tax	(43,736)	(23,201)	-	-
Deferred income tax (Note 23)	(54,529,967)	(74,683,249)	69,921	59,981
	(92,764,110)	(102,517,118)	69,921	59,981

Income tax for profit before tax of the Group and the Company has difference from the calculation of the accounting profit multiplied by tax rate of a country that the parent company is settled. The details are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Profit before tax	1,374,194,864	1,607,934,762	1,930,663,532	383,347,317
Tax calculated at tax rate of 20% (2021: 20%)	(274,838,973)	(321,586,952)	(386,132,706)	(76,669,463)
Tax effect of:				
Expense not deductible for tax purpose	(6,775,457)	(831,490)	(17,556)	(5,844)
Revenue from loan forgiveness	-	(19,072,869)	-	-
Revenue from tax exempt business	-	-	389,138,743	79,200,000
Expense additionally deductible for tax purpose	27,472,877	20,722,090	-	-
Profit not subject to tax due to privileges from BOI	174,085,741	198,890,933	-	-
Utilisation of previously unrecognised deferred tax assets on tax losses	10,363,663	31,664,975	-	-
Temporary difference for which no deferred income tax was recognised	(368,833)	167,389	-	-
Tax losses for which no deferred income tax asset was recognised	(22,659,392)	(12,447,993)	(2,918,560)	(2,464,712)
Written-off prepaid withholding tax	(43,736)	(23,201)	-	-
	(92,764,110)	(102,517,118)	69,921	59,981

The weighted average applicable tax rate which are used for the Group and the Company are 6.8% and 0.0% respectively (2021: 6.4% and 0.0% respectively).

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40 Basic earnings per share

Basic earnings per share is calculated by dividing the net profit attributable to common stock shareholders by the weighted average number of ordinary shares.

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Profit attributed to the shareholders of the parent company (Baht)	1,281,979,746	1,505,680,618	1,930,733,453	383,407,298
Weighted average number of ordinary shares (Shares)	10,168,631,105	10,175,999,960	10,168,631,105	10,175,999,960
Basic earnings per share (Baht per share)	0.13	0.15	0.19	0.04

There are no potential dilutive ordinary shares issued during the report date. Thus, the dilutive earnings (loss) per share figure is not presented.

41 Related-party transactions

Individuals and entities that directly or indirectly control or are controlled by or are under common control with the Company, including investment entities, associates, joint venture and individuals or entities having significant influence over the Company, key management personnel, including directors and close members of the family of these individuals and entities associated with these individuals also constitute related parties.

In considering each possible related-party relationship, attention is directed to the substance of the relationship, and not merely the legal form.

As at 31 December 2022, most of company's shares were held by members of Songmetta family in proportion of 77.19% (2021: 75.84%). This makes the Group under Songmetta family's control.

As at 31 December 2022 and 2021, the Company's shares were held by individuals and companies as follows:

	Nationality	No. of shares		Percentage of shares	
		2022	2021	2022	2021
Members of Songmetta family	Thai	7,777,487,440	7,717,752,740	77.19	75.84
Siam Commercial Bank Public Company Limited	Thai	250,656,240	363,451,540	2.49	3.57
Individuals and others	-	2,047,490,680	2,094,795,680	20.32	20.59
		10,075,634,360	10,175,999,960	100.00	100.00

Relationships between the Company and related parties are as follows:

List of related parties	Country/ Nationality	Relationship
Mr. Wirachai Songmetta	Thai	Shareholder
Mr. Natt Songmetta	Thai	Shareholder
Mr. Tanavijit Ankapipatchai	Thai	Shareholder and director
Mr. Teerawut Songmetta	Thai	Shareholder and director
Mr. Pornmett Songmetta	Thai	Shareholder and director
Ms. Jiratha Songmetta	Thai	Director
Mr. Pranai Suwanrath	Thai	Director (until 28 April 2021)
Mr. Monthon Sudprasert	Thai	Director (since 28 April 2021)
Ms. Chonticha Chitraarporn	Thai	Director
Ms. Patchanee Suteevitanunt	Thai	Director
Mr. Nuekruk Baingern	Thai	Director
Mr. Charoon Intachan	Thai	Director
Mr. Tanachai Banditvorapoom	Thai	Director

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List of related parties	Country/ Nationality	Relationship
Asia Clean Energy Company Limited	Thai	Subsidiary of Absolute Clean Energy Public Company Limited
Advance Clean Power Company Limited	Thai	Subsidiary of Asia Clean Energy Company Limited
Advance Agro Power Plant Company Limited	Thai	Subsidiary of Asia Clean Energy Company Limited
Advance Farm Tree Company Limited	Thai	Subsidiary of Asia Clean Energy Company Limited
Alliance Clean Power Company Limited	Thai	Subsidiary of Asia Clean Energy Company Limited
Advance Agro Asia Company Limited	Thai	Subsidiary of Asia Clean Energy Company Limited
Advance Asia Power Plant Company Limited	Thai	Subsidiary of Asia Clean Energy Company Limited
ACE Solar Company Limited	Thai	Subsidiary of Asia Clean Energy Company Limited
Advance Bio Asia Company Limited	Thai	Subsidiary of Asia Clean Energy Company Limited
Bio Power Plant Company Limited	Thai	Subsidiary of Asia Clean Energy Company Limited
Power Supply and Maintenance Service Company Limited	Thai	Subsidiary of Asia Clean Energy Company Limited
Absolute Clean Water Company Limited	Thai	Subsidiary of Asia Clean Energy Company Limited
Advance Asia Energy Company Limited	Thai	Subsidiary of Asia Clean Energy Company Limited
Advance Bio Energy Company Limited	Thai	Subsidiary of Asia Clean Energy Company Limited
Absolute Clean Engineering and Service Company Limited	Thai	Subsidiary of Asia Clean Energy Company Limited
Advance Power Plant Company Limited	Thai	Shareholder and common director
AI and Robotics Company Limited	Thai	Shareholder and common director
Radius Company Limited	Thai	Shareholder and common director
Triple A Board Company Limited	Thai	Subsidiary of related parties and common director
Shaiyo Supply Chain Company Limited	Thai	Subsidiary of related parties and common director
Advance Asia Fiber Company Limited	Thai	Subsidiary of related parties
Global Woodchips Company Limited	Thai	Subsidiary of related parties
Advance Asian Company Limited	Thai	Subsidiary of related parties
Sribanpai Company Limited	Thai	Subsidiary of related parties
Advance Energy Development Company Limited	Thai	Subsidiary of related parties
AED Fabrication Company Limited	Thai	Subsidiary of related parties
Goodwill Innovation and Engineering Company Limited	Thai	Subsidiary of related parties
CSR and GRM Management Company Limited	Thai	Subsidiary of related parties
Advance Professional Training Company Limited	Thai	Subsidiary of related parties
Advance Alliance Logistics Company Limited	Thai	Subsidiary of related parties
Namphong Smile Company Limited	Thai	Subsidiary of related parties
Global Woodchip Trading Company Limited	Thai	Subsidiary of related parties
Advance Utilities Company Limited	Thai	Subsidiary of related parties
Eco Green Tree Company Limited	Thai	Subsidiary of related parties
Siam Agro Industry Product Trading Company Limited	Thai	The Company under common control of Company's shareholder
Shaiyo Smile Company Limited	Thai	The Company under common control of Company's shareholder
Agro Energy Supply Company Limited	Thai	The Company under common control of Company's shareholder
AED Service Company Limited	Thai	The Company under common control of Company's shareholder
Ascender Limited	British Virgin Island	The Company under common control of Company's shareholder

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Related-party transactions are as follows:

- a) Outstanding balances as at 31 December 2022 and 2021 arising from purchases/sales of goods and services and others are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Trade accounts receivable - billed (Note 12) related party	9,588,631	9,091,403	-	-
Trade accounts receivable - unbilled (Note 12) related party	4,248,778	4,743,334	-	-
Other account receivable (Note 12) related party	12,507,602	9,642,641	-	-
Accrued interest (Note 12) related party	-	-	12,296	-
Accrued land rental income (Note 12) related party	58,003	58,003	-	-
Advance payment (Note 12) related party	720,000	188,340	-	-
Advance payment for repair and maintenance of machinery (Note 12) related party	366,118	777,477	-	-
Advance payment for construction and purchase of fixed assets related party	68,017,635	8,445,436	-	-
Trade accounts payable (Note 26) related party	15,514,107	14,575,668	-	-
Other accounts payable (Note 26) related party	4,821,627	9,373,576	-	-
Accounts payable from purchases of fixed assets (Note 26) related party	7,695,655	15,708,518	-	-
Accrued bonus directors and managements	4,985,000	4,735,000	4,645,000	4,395,000
Accrued director remuneration expense (Note 26) related person	1,108,600	202,200	-	-
Advance received for land rental (Note 26) related party	87,358	87,358	-	-
Retention (Note 26) related party	-	31,877,039	-	-

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- b) The significant income and expenses with related parties for the years ended 31 December 2022 and 2021 are as follows :

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Sales of electricity (Note 35)				
related party	44,394,111	37,406,156	-	-
Sales of steam (Note 35)				
related party	3,971,480	8,380,863	-	-
Management service income (Note 35)				
direct subsidiary	-	-	3,720,000	3,480,000
indirect subsidiary	-	-	79,080,000	77,400,000
	-	-	82,800,000	80,880,000
Dividend income				
direct subsidiary	-	-	1,943,312,996	395,999,999
Interest income (Note 36)				
related party	-	-	12,986	-
Rental income (Note 36)				
related party	373,960	346,835	-	-
Income from sales of spare parts (Note 36)				
related party	1,031,879	968,710	-	-
Gain from fixed assets disposal (Note 36)				
related party	132,269	-	-	-
Income from sales of raw water (Note 36)				
related party	3,710,680	532,072	-	-
Income from consulting, installing and maintenance (Note 36)				
related party	-	1,145,950	-	-
Purchases of fuel and consumable materials				
related party	760,777,862	682,253,565	-	-
Purchases of goods and other services				
related party	22,780,795	21,340,569	210,827	190,740
Repair and maintenance services				
related party	586,941	-	-	-
Building rental and services				
related party	1,112,685	833,308	1,027,600	803,644
Fuel management services				
related party	122,193,819	96,369,955	-	-
Interest expense (Note 38)				
related party	-	-	34,739	-
Rental expenses				
related party	372,464	372,465	-	-
related person	96,659	129,233	-	-
	469,124	501,698	-	-
Directors and management remuneration				
- short-term employee benefits	48,653,150	51,508,931	29,594,913	30,236,350
- post-employment benefits	3,266,366	3,309,262	336,378	263,788
	51,919,516	54,818,193	29,931,291	30,500,138

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- c) The significant purchases of assets with related parties for the years ended 31 December 2022 and 2021 are as follows :

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Purchases of spare parts related party	80,823,766	63,603,199	-	-
Purchases / constructions of assets during the year related party	427,897,085	577,927,404	130,000	-

- d) Short-term loan to a direct subsidiary as at 31 December 2022 and 2021 is as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Short-term loan to direct subsidiary	-	-	44,000,000	-

Outstanding short-term loan to a direct subsidiary as at 31 December 2022 is the unsecured promissory note denominated in Thai Baht, bearing interest rate at 3.40% per annum and due for repayment at call.

The movements of short-term loan to a direct subsidiary for the years ended 31 December 2022 and 2021 are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Opening balance for the year	-	-	-	-
Addition during the year	-	-	44,000,000	-
Closing balance for the year	-	-	44,000,000	-

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42 Commitments

42.1 Commitments from non-cancellable significant agreements

The Group has entered into non-cancellable service agreements as at 31 December 2022 and 2021 as follows:

	Consolidated financial statements					
	2022			2021		
	Service agreements Baht	Service under concession arrangements Baht	Total Baht	Operating Commitments Baht	Service under concession arrangements Baht	Total Baht
Due within 1 year	3,515,942	8,331,000	11,846,942	4,276,442	8,254,887	12,531,329
Due later than 1 year but not later than 5 years	4,351,500	35,823,000	40,174,500	6,794,901	34,906,476	41,701,377
Due later than 5 years	-	187,244,160	187,244,160	434,500	197,329,227	197,763,727
	7,867,442	231,398,160	239,265,602	11,505,843	240,490,590	251,996,433
	Separate financial statements					
	2022			2021		
	Service agreements Baht	Service under concession arrangements Baht	Total Baht	Operating Commitments Baht	Service under concession arrangements Baht	Total Baht
Due within 1 year	1,855,501	-	1,855,501	2,615,401	-	2,615,401
Due later than 1 year but not later than 5 years	-	-	-	988,901	-	988,901
	1,855,501	-	1,855,501	3,604,302	-	3,604,302

42.2 Capital commitments

The Group had capital commitments that had not yet been recognised in the financial statements in relation to purchases of land, constructions of power plants and assets under the service concession arrangement as at 31 December 2022 and 2021 are as follows :

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Purchases of machines and equipment and construction of power plants	1,227,030,706	589,822,773	-	-
Purchases of computer programs	743,956	4,584,500	-	130,000
Assets under service concession arrangements for power plant	-	706,612	-	-
	1,227,774,662	595,113,885	-	130,000

42.3 Share Purchase Agreement of Advance Power Plant Company Limited

The Extraordinary General Meeting of Shareholders No. 1/2019 held on 28 October 2019 resolved to approve the Company to purchase shares of Advance Power Plant Company Limited. from the Songmetta group, which is a related person in the amount of Baht 394 million to Baht 472 million. The payment and transfer of shares is scheduled on the same day, within 120 days from the date of signing the share purchase agreement of Advance Power Plant Co., Ltd., which is scheduled to enter into the share purchase agreement within 6 months from the date On August 28, 2019, or within 15 days after the date the FIT Power Purchase Agreement returned from PEA was signed by Advance Power Plant Company Limited and PEA. Depends on what event will happen after.

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42.4 Forward contracts

Advance Clean Power Company Limited, Alliance Clean Power Company Limited, Advance Agro Asia Company Limited, Advance Agro Power Plant Company Limited, Bio Power Plant Company Limited, Power Supply and Maintenance Service Company Limited, ACE Solar Company Limited and Absolute Clean Engineering and Service Company Limited, indirect subsidiaries, have entered into buying and selling forward contracts to purchase and import machinery from overseas and protect the foreign exchange risk from receivable under finance lease agreement from EGAT in the future. The outstanding forward contracts as at 31 December 2022 and 2021 are as follows:

Consolidated financial statement					
2022					
Foreign currency	Amount per contract Baht	Exchange rate per contract Baht	Value per contract Baht	Book value Baht	Fair value Baht
US Dollar	3,146,455	32.69 - 34.91	108,115,586	109,800,951	1,685,365
US Dollar	1,000,000	33.60 - 33.97	33,790,000	33,550,599	(239,401)

Consolidated financial statement					
2021					
Foreign currency	Amount per contract Baht	Exchange rate per contract Baht	Value per contract Baht	Book value Baht	Fair value Baht
US Dollar	473,928	32.72 - 33.46	15,724,420	15,829,018	104,598

Fair Value

Fair value of forward observable contracts is calculated by using estimated discount future cash flow of forward foreign currency exchange rate (period-ended forward currency exchange rate) and forward contract rate, which reflected counterparty credit risk. The fair values are within level 2 of the fair value hierarchy.

43 Guarantees

43.1 Letters of guarantee

The Group has outstanding letters of guarantee for the normal course of business, issued by financial institutions as at 31 December 2022 and 2021 are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Letters of guarantee for electricity usage	13,298,900	13,298,900	-	-
Letters of guarantee for Compliance with Power Purchase Agreements	677,280,000	681,280,000	-	-
Letters of guarantee for bidding and sales of electricity	430,837,000	107,500,000	-	-
Letters of guarantee for compliance with building construction contract, land rental contract and waste management service contract by converting waste into electrical power	264,234,869	166,734,869	-	-
Letters of guarantee for compliance with service contract of fiber optic	152,425	152,425	-	-
	1,385,803,194	968,966,194	-	-

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43.2 Guarantees among the Group

Absolute Clean Energy Public Company Limited

As at 31 December 2022 and 2021, the Company has outstanding letters of guarantee for the normal course of business, issued by a financial institution are as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Letters of guarantee for compliance with Power Purchase Agreements				
- Bio Power Plant Company Limited	278,480,000	278,480,000	278,480,000	278,480,000
- ACE Solar Company Limited	172,000,000	172,000,000	172,000,000	172,000,000
- Advance Clean Power Company Limited	-	4,000,000	-	4,000,000
Letters of guarantee for bidding and sales of electricity				
- Alliance Clean Power Company Limited	209,150,000	-	209,150,000	-
- Absolute Power Plant Company Limited	-	97,500,000	-	97,500,000
- Indirect subsidiaries who bid solar farm projects	211,687,000	-	211,687,000	-
Letters of guarantee for compliance with building construction contract and waste management service				
- National Clean Energy Company Limited	98,100,000	98,100,000	98,100,000	98,100,000
- Absolute Power Plant Company Limited	97,500,000	-	97,500,000	-
	1,066,917,000	650,080,000	1,066,917,000	650,080,000

As at 31 December 2022 and 2021, the Company had entered into a guarantee agreement with a financial institutions for loan repayment as follows:

	Consolidated financial information		Separate financial information	
	(Unaudited) 31 December 2022	(Audited) 31 December 2021	(Unaudited) 31 December 2022	(Audited) 31 December 2021
Guarantee for repayment of revolving credit facilities				
- A direct subsidiary and 18 indirect subsidiaries				
Currency : Baht	1,465,600,000	1,026,600,000	1,465,600,000	1,026,600,000
Currency : US dollar	100,000,000	100,000,000	100,000,000	100,000,000
Guarantee for repayment of long-term credit facilities				
- A direct subsidiary and 1 indirect subsidiary				
Currency : Baht	180,000,000	232,000,000	180,000,000	232,000,000

Direct subsidiary - Asia Clean Energy Company Limited

As at 31 December 2022 and 2021, Asia Clean Energy Company Limited had entered into a guarantee agreement for Alliance Clean Power Company Limited's long-term loan from a financial institution in the amount of Baht 807,400,000.

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Indirect subsidiary - Alliance Clean Power Company Limited

Alliance Clean Power Company Limited has outstanding letters of guarantee to ACE Solar Company Limited for the normal course of business, issued by a financial institution as at 31 December 2022 and 2021 as follows:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Letters of guarantee for sales of electricity - ACE Solar Company Limited	10,000,000	10,000,000	-	-
	10,000,000	10,000,000	-	-

As at 31 December 2022 and 2021, Advance Agro Power Plant Company Limited, Advance Asia Power Plant Company Limited and Advance Clean Power Company Limited had entered into a guarantee agreement for a financial support of Alliance Clean Power Company Limited's long-term loan from a financial institution in the amount of Baht 680,000,000.

44 Contingent liabilities

44.1 Engineering, procurement, and construction contracts

The six indirect subsidiaries entered into engineering, procurement, and construction (EPC) contracts with sellers, and related parties to operate the nine power plants. The indirect subsidiaries have not yet completed construction due to force majeure. So, the power plants could not supply electricity by the scheduled commercial operation dates (SCOD) specified in the Power Purchase Agreements. The indirect subsidiaries are currently requesting the arbitration to request the Provincial Electricity Authority to return Power Purchase Agreements according to FiT Announcement B.E. 2558 (Note 45.10). If the indirect subsidiaries fail to get termination dismissed, the EPC contracts with the sellers could be terminated and the indirect subsidiaries could be charged a penalty fee up to 10% for the termination of the contracts. This would cost Baht 63.3 million for each project.

However, the indirect subsidiaries negotiated with the sellers to extend the contract's effective period due to the force majeure. The sellers agreed in writing to extend the effective period of the contracts.

As at 31 December 2022 and 2021, the Group had not recognised any provision for liabilities resulting from termination of the contracts.

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44.2 Lawsuit

Indirect subsidiaries

- 1) An indirect subsidiary was sued by villagers in Lampang, requesting the Administrative Court of Chiang Mai to revoke the license for the operation of the power plant business (R.Ng.4) without claiming damages in any amount and to revoke for operation and construction according to license for the operation of the power plant business (R.Ng.4) before an adjudication which the court investigated and dismissed the claim. On 30 March 2016, the case was adjudicated that the distribution of the license for the operation of the power plant business (R.Ng.4) to the indirect subsidiary was in accordance with the law and the claim was dismissed. However, on 29 April 2016, the complainants filed an appeal to the Supreme Administrative Court defending the trial court's decision. On 20 January 2017, the indirect subsidiary filed an appeal and was judged that the license for the operation of the power plant business (R.Ng.4) is in accordance with the law. The Supreme Administrative Court affirmed the judgement of the Administrative Court of Chiangmai and dismiss the claim of complainants.

As at 31 December 2022 and 2021, the case is under Supreme Administrative Court's consideration.

- 2) An indirect subsidiary was sued by villagers in Chachoengsao, requesting the Administrative Court of Rayong to revoke the license for the operation of the power plant business (R.Ng.4) and to revoke the notification of the construction, alteration or demolition removal and replacement of the building under Section 39 bis of the Building Control Act B.E. 2522, without claiming damages in any amount and asking the court to order mitigation of the enforcement of the license for the operation of the power plant business (R.Ng.4) and the notification of the building construction (39 bis). Subsequently, on 31 March 2016, the court investigated the request and considered the indirect subsidiary's explanation and found that the issuance of the license for the operation of power plant business (R.Ng.4) and the notification of the construction (39 bis) was not unlawful. As a result, the court requested for injunctive and temporary relief.

On 8 April 2020, the Administrative Court of Rayong dismissed the case. However, the claimants have the right to file an appeal to the Supreme Administrative Court as prescribed by the law. Later, on 7 May 2020, the claimants filed an appeal to the Supreme Administrative Court.

As at 31 December 2022 and 2021, the case is under the Supreme Administrative Court's consideration.

- 3) Two indirect subsidiaries which the Group received the shares transferred from previous shareholders on 21 August 2020, and indirect subsidiaries' director were sued by villagers in Buriram at the Buriram Provincial Court on 29 September 2020. The lawsuit was filed after the shares had been transferred. The villagers claimed that the subsidiaries had violated the Enhancement and Conservation of the National Environmental Quality Act B.E. 2535 and the Public Health Act B.E. 2535 since 2012 to 2020. The damages claimed comprise Baht 129,415,000 together with interest at 7.5% per annum from the day after the filing date until the payment is completed.

On 20 September 2022, the Buriram Provincial Court ordered two indirect subsidiaries to jointly pay the plaintiff damages of Baht 34,160,000 plus interest at the rate prescribed by law from the filing date until the payment is completed. The Court dismissed the lawsuit against the directors of the indirect subsidiaries. Both indirect subsidiaries set the provision of damages from litigation based on the opinions of legal counsel. Also, as the alleged infringement occurred before the Group received the shares transferred from previous shareholders, the Group is preparing to file a claim for damages against those shareholders.

On 7 December 2022, the two indirect subsidiaries were preparing to file an appeal against the judgment of the Buriram Provincial Court.

As at 31 December 2022, the case is under the Court of appeal's consideration.

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45 Significant agreements

Significant agreements for the years ended 31 December 2022 and 2021 are as follows:

45.1 Power Purchase Agreements

Indirect subsidiary - Advance Clean power Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Provincial Electricity Authority ("PEA")	A period of 5 years commencing from 21 July 2009 and automatically renewed every 5 years until any party cancels the agreement. The company started its commercial operation on 24 April 2012 and from 11 March 2016 onwards, the company requested for the amendment to Feed-in Tariff and the contract will end on 23 July 2028.	Power Purchase Agreement ("PPA") under the Very Small Power Producer project for the power plant at Ban Bueng, Chonburi.
2		A period of 5 years commencing from 29 July 2009 and automatically renewed every 5 years until any party cancels the agreement. The company started its commercial operation on 4 June 2013 and from 11 March 2016 onwards, the company requested for the amendment to Feed-in Tariff and the contract will end on 3 June 2029.	Power Purchase Agreement ("PPA") under the Very Small Power Producer project for the power plant at Phon Thong, Roi-Et.
3		A period of 5 years commencing from 21 July 2009 and automatically renewed every 5 years until any party cancels the agreement. The company started its commercial operation on 16 August 2017 and from 11 March 2016 onwards, the company requested for the amendment to Feed-in Tariff and the contract will end on 15 December 2032.	Power Purchase Agreement ("PPA") under the Very Small Power Producer project for the power plant at Bo Phloi, Kanchanaburi.
4		A period of 20 years commencing from the commercial operation date. The company started its commercial operation on 26 November 2021.	Power Purchase Agreement ("PPA") under the Very Small Power Producer project for the power plant at Khlong Khlung, Kamphaeng Phet.
5	Global Woodchips Company Limited - a related party	A period of 10 years commencing from 13 July 2012 to 12 July 2022 and automatically renewed every 10 years unless any party terminates contract by giving a written notice at least 30 days before the contract expiration.	Power Purchase Agreement ("PPA") for the power plant at Ban Bueng, Chonburi.
6		A period of 10 years commencing from 1 June 2013 to 31 May 2023 and automatically renewed every 10 years unless any party terminates contract by giving a written notice at least 30 days before the contract expiration.	Power Purchase Agreement ("PPA") for the power plant at Phon Thong, Roi-Et.
7	Advance Asian Company Limited - a related party	A period of 10 years commencing from 1 June 2013 to 31 May 2023 and automatically renewed every 10 years unless any party terminates contract by giving a written notice at least 30 days before the contract expiration.	Power Purchase Agreement ("PPA") for the power plant at Phon Thong, Roi-Et.

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Indirect subsidiary - Advance Agro Power Plant Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Provincial Electricity Authority ("PEA")	A period of 5 years commencing from 16 July 2009 and automatically renewed every 5 years until any party cancels the agreement. The company started its commercial operation on 30 October 2012 and from 11 March 2016 onwards, the company requested for the amendment to Feed-in Tariff and the contract will end on 29 January 2029.	Power Purchase Agreement ("PPA") under the Very Small Power Producer project for the power plant at Prasat, Surin.
2		A period of 5 years commencing from 16 July 2009 and automatically renewed every 5 years until any party cancels the agreement. The company started its commercial operation on 16 January 2013 and from 11 March 2016 onwards, the company requested for the amendment to Feed-in Tariff and the contract will end on 15 April 2029.	Power Purchase Agreement ("PPA") under the Very Small Power Producer project for the power plant at Chokchai, Nakhon Ratchasima.
3	Global Woodchips Company Limited - a related party	A period of 10 years commencing from 1 October 2012 to 30 September 2022 and automatically renewed every 10 years, unless any party terminates the contract by giving a written notice at least 30 days before the contract expiration.	Power Purchase Agreement ("PPA") for the power plant at Prasat, Surin.
4		A period of 10 years commencing from 1 January 2013 to 31 December 2022 and automatically renewed every 10 years, unless any party terminates the contract by giving a written notice at least 30 days before the contract expiration.	Power Purchase Agreement ("PPA") for the power plant at Chokchai, Nakhon Ratchasima.
5	Advance Asia Fiber Company Limited - a related party	A period of 10 years commencing from 18 May 2018 and automatically renewed every 2 years, unless any party terminates the contract by giving a written notice at least 180 days before the contract expiration or 90 days before the extended contract expiration. The company has terminated the contract since 3 July 2022.	Power Purchase Agreement ("PPA") for the power plant at Chokchai, Nakhon Ratchasima.
6	Advance Utilities Company Limited	A period of 10 years commencing from 18 May 2018 and automatically renewed every 2 years unless any party terminates the contract by giving a written notice at least 180 days before the contract expiration or 90 days before the extended contract expiration.	Power Purchase Agreement ("PPA") for the power plant at Chokchai, Nakhon Ratchasima.

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Indirect subsidiary - Alliance Clean Power Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Provincial Electricity Authority ("PEA")	A period of 5 years commencing from 18 September 2009 and automatically renewed every 5 years until any party cancels the agreement. The company started its commercial operation on 26 December 2013 and from 11 March 2016 onwards, the company requested for the amendment to Feed-in Tariff and the contract will end on 25 December 2029.	Power Purchase Agreement ("PPA") under the Very Small Power Producer project for the power plant at Si Chiang Mai, Nong Khai.
2		A period of 5 years commencing from 16 July 2009 and automatically renewed every 5 years until any party cancels the agreement. The company started its commercial operation on 14 August 2015 and from 11 March 2016 onwards, the company requested for the amendment to Feed-in Tariff and the contract will end on 13 December 2030.	Power Purchase Agreement ("PPA") under the Very Small Power Producer project for the power plant at Sirindhorn, Ubon Ratchathani.
3		A period of 5 years commencing from 24 October 2013 and automatically renewed every 5 years until any party cancels the agreement. The company started its commercial operation on 29 November 2016.	Power Purchase Agreement ("PPA") under the Very Small Power Producer project for the power plant at Mueang, Khon Kaen.
4		A period of 20 years commencing from the commercial operation date. The company started its commercial operation on 28 December 2020.	Power Purchase Agreement ("PPA") under the Very Small Power Producer project for the power plant at Mueang Krabi, Krabi.

Indirect subsidiary - Advance Agro Asia Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Electricity Generating Authority of Thailand ("EGAT")	A 25-year agreement, effective since the commercial operation date on 10 February 2017.	Power Purchase Agreement ("PPA") under the Small Power Producer project for the power plant at Ko Khanun, Phanom Sarakham, Chachoengsao.
2	Triple A Board Company Limited - a related party	A 1-year agreement, effective since the commercial operation date and automatically renewed every 1 year, unless any party terminate the contract.	Power purchase agreement ("PPA") for the power plant at Ko Khanun, Phanom Sarakham, Chachoengsao.

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Indirect subsidiary - Advance Asia Power Plant Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Provincial Electricity Authority ("PEA")	A period of 5 years commencing from 28 July 2009 and automatically renewed every 5 years until any party cancels the agreement. The company started its commercial operation on 2 May 2012 and from 11 March 2016 onwards, the company requested for the amendment to Feed-in Tariff and the contract will end on 1 August 2028.	Power Purchase Agreement ("PPA") under the Very Small Power Producer project for the power plant at Nam Phong, Khon Kaen.
2	Global Woodchips Company Limited - a related party	A period of 10 years commencing from 1 October 2012 to 30 September 2022 and automatically renewed every 10 years unless any party terminates contract by giving a written notice at least 30 days before the contract expiration.	Power Purchase Agreement ("PPA") for the power plant at Nam Phong, Khon Kaen.
3	Advance Asian Company Limited - a related party	A period of 10 years commencing from 1 November 2012 to 30 October 2022 and automatically renewed every 10 years unless any party terminates contract by giving a written notice at least 30 days before the contract expiration.	Power Purchase Agreement ("PPA") for the power plant at Nam Phong, Khon Kaen.

Indirect subsidiary - Advance Bio Asia Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Provincial Electricity Authority ("PEA")	A period of 5 years commencing from 16 July 2009 and automatically renewed every 5 years until any party cancels the agreement. The company started its commercial operation on 9 July 2014 and from 11 March 2016 onwards, the company requested for the amendment to Feed-in Tariff and the contract will end on 8 March 2030.	Power Purchase Agreement ("PPA") under the Very Small Power Producer project for the power plant at Thoen, Lampang.

Indirect subsidiary - ACE Solar Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Unique Sea Products Company Limited	A 25-year agreement, effective since the commercial operation date on 20 November 2018 for the first project and 28 September 2019 for the second project.	Power Purchase Agreement ("PPA") of solar power generated from solar rooftop at Sri Racha, Chonburi.
2	ZIP Metal Works Factory 1993 Company Limited	A 25-year agreement, effective since the commercial operation date on 1 May 2020.	Power Purchase Agreement ("PPA") of solar power generated from solar rooftop at Mueang Samut Sakhon, Samut Sakhon.
3	Advance Asia Fiber Company Limited - a related party	A 25-year agreement, effective since the commercial operation date on 22 February 2019.	Power Purchase Agreement ("PPA") of solar power generated from solar rooftop at Chok Chai, Nakhon Ratchasima.
4		A 25-year agreement, effective since the commercial operation date on 25 February 2021.	Power Purchase Agreement ("PPA") of solar power generated from solar rooftop in Chok Chai, Nakhon Ratchasima. The agreement was made on 20 July 2020.
5		A 25-year agreement, effective since the commercial operation date on 31 March 2021.	Power Purchase Agreement ("PPA") of solar power generated from floating solar farm in Chok Chai, Nakhon Ratchasima. The agreement was made on 20 July 2020.
6	Electricity Generating Authority of Thailand ("EGAT")	A 20-year agreement, effective since the commercial operation date. The indirect subsidiary has not yet started its commercial operation.	Power Purchase Agreement ("PPA") of power generated from SPP hybrid firm in Nabon, Nakhon Si Thammarat. The agreement was made on 19 March 2021.

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Indirect subsidiary - Advance Asia Energy Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Provincial Electricity Authority ("PEA")	A 20-year agreement, effective since the commercial operation date. The indirect subsidiary started its commercial operation on 11 October 2011 and from 11 March 2016 onwards, the company requested for the amendment to Feed-in Tariff and the contract will end on 10 May 2028.	Power Purchase Agreement ("PPA") under the Very Small Power Producer project for the power plant at Mueang, Nakhon Ratchasima.

Indirect subsidiary - Advance Bio Energy Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Provincial Electricity Authority ("PEA")	A 1-year agreement, effective since 7 December 2007 and automatically renewed every year unless any party terminates contract. The company started its commercial operation on 6 February 2008 and from 19 October 2016 onward, the company requested for the amendment to Feed-in Tariff and the contract will end on 30 October 2025.	Power Purchase Agreement ("PPA") under the Very Small Power Producer project for the power plant at Satuek, Buriram.

Indirect subsidiary - Absolute Clean Engineering and Service Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Provincial Electricity Authority ("PEA")	A 5-year agreement, effective since 21 July 2016 and automatically renewed every 5 years unless any party terminates contract. The company started its commercial operation on 20 June 2017. Later, the company terminated the agreement on 21 May 2021 which will be effective on 1 June 2021.	Power Purchase Agreement ("PPA") under the Very Small Power Producer project for the power plant at Satuek, Buriram.
2	Electricity Generating Authority of Thailand ("EGAT")	The agreement is effective from the commercial operation date until 15 January 2025. The company started its commercial operation on 1 June 2021.	

Indirect subsidiary - Bio Power Plant Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Electricity Generating Authority of Thailand ("EGAT")	A 20-year agreement, effective since the commercial operation date. The indirect subsidiary has not yet started its commercial operation.	Power Purchase Agreement ("PPA") of power generated from SPP hybrid firm in Khlong Khlung, Kamphaeng Phet. The agreement was made on 6 January 2021.
2		A 20-year agreement, effective since the commercial operation date. The indirect subsidiary has not yet started its commercial operation.	Power Purchase Agreement ("PPA") of power generated from SPP hybrid firm in Nabon, Nakhon Si Thammarat. The agreement was made on 19 March 2021.

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45.2 Steam Purchase Agreement

Indirect subsidiary - Advance Agro Asia Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Triple A Board Company Limited - a related party	A 1-year agreement, effective since the date of first steam purchase, and automatically renewed every 1 year unless any party terminates the contract by giving a written notice at least 180 days before the contract expiration.	Steam Purchase Agreement ("SPA") for the power plant at Ko Khanun, Phanom Sarakham, Chachoengsao.

45.3 Waste management service agreement

Indirect subsidiary - Alliance Clean Power Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Khon Kaen Municipality	A 20-year agreement, effective since 18 August 2011. Then, on 27 August 2019, the agreement was amended to be within 20 years commencing from the received date of work notification letter which is 28 September 2016.	Waste management service agreement for the power plant at Meuang, Khon Kaen.
2	Nonthon Municipality	A 25-year agreement, effective since 1 April 2017.	Waste management service agreement for the power plant at Meuang, Khon Kaen.
3	Sibsong-Sibsong-Sisibphad Limited Partnership	A 5-year agreement, effective since 1 September 2017.	Waste management service agreement for the power plant at Meuang, Khon Kaen.

Indirect subsidiary - National Clean Energy Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Chiang Wang Subdistrict Administrative Organization	A 25-year agreement, effective since the construction permit.	Waste management service agreement for the power plant at Meuang, Khon Kaen.

Absolute Clean Energy Public Company Limited

Notes to the Consolidated and Separate Financial Statements

For the year ended 31 December 2022

45.4 Fuel Materials Purchase Agreements

Indirect subsidiary - Advance Clean Power Company limited

Contract no.	Contract party	Contract period	Contract detail
1	Global Woodchips Company Limited - a related party	A 12-year agreement, effective since 10 March 2015 and automatically renewed every year unless any party terminates contract by giving a written notice within 60 days before the contract expiration.	Biomass Fuel Purchase Agreement for the power plant at Ban Bueng, Chonburi.
2		A 12-year agreement, effective since 10 March 2015 and automatically renewed every year unless any party terminates contract by giving a written notice within 60 days before the contract expiration.	Biomass Fuel Purchase Agreement for the power plant at Phon Thong, Roi-Et.
3		A 12-year agreement, effective since 1 June 2017 and automatically renewed every year unless any party terminates contract by giving a written notice within 60 days before the contract expiration.	Biomass Fuel Purchase Agreement for the power plant at Bo Phloi, Kanchanaburi.
4	Shaiyo Supply Chain Company Limited - a related party	A 12-year agreement, effective since 10 March 2015 and automatically renewed every year unless any party terminates contract by giving a written notice within 60 days before the contract expiration.	Biomass Fuel Purchase Agreement for the power plant at Phon Thong, Roi-Et.

Indirect subsidiary - Advance Agro Power Plant Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Shaiyo Supply Chain Company Limited - a related party	A 12-year agreement, effective since 21 September 2011 and automatically renewed every year unless any party terminates contract by giving a written notice within 60 days before the contract expiration.	Biomass Fuel Purchase Agreement for the power plant at Prasat, Surin.
2		A 12-year agreement, effective since 2 May 2013 and automatically renewed every year unless any party terminates contract by giving a written notice within 60 days before the contract expiration.	Biomass Fuel Purchase Agreement for the power plant at Chokchai, Nakhon Ratchasima.
3	Global Woodchips Company Limited - a related party	A 12-year agreement, effective since 16 September 2011 and automatically renewed every year unless any party terminates contract by giving a written notice within 60 days before the contract expiration.	Biomass Fuel Purchase Agreement for the power plant at Prasat, Surin.
4		A 12-year agreement, effective since 7 December 2011 and automatically renewed every year unless any party terminates contract by giving a written notice within 60 days before the contract expiration.	Biomass Fuel Purchase Agreement for the power plant at Chokchai, Nakhon Ratchasima.

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Indirect subsidiary - Alliance Clean Power Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Global Woodchips Company Limited - a related party	A 15-year agreement, effective since 26 December 2013, and automatically renewed every year unless any party terminates contract by giving a written notice within 60 days before the contract expiration.	Biomass Fuel Purchase Agreement for the power plant at Si Chiang Mai, Nong Khai.
2		A 15-year agreement, effective since 14 August 2015, and automatically renewed every year unless any party terminates contract by giving a written notice within 60 days before the contract expiration.	Biomass Fuel Purchase Agreement for the power plant at Sirindhorn, Ubon Ratchathani.
3	Sribanpai Company Limited - a related party	A 15-year agreement, effective since 15 December 2013, and automatically renewed every year unless any party terminates contract by giving a written notice within 60 days before the contract expiration.	Biomass Fuel Purchase Agreement for the power plant at Si Chiang Mai, Nong Khai.
4	Shaiyo Supply Chain Company Limited - a related party	A 15-year agreement, effective since 14 August 2015, and automatically renewed every year unless any party terminates contract by giving a written notice within 60 days before the contract expiration.	Biomass Fuel Purchase Agreement for the power plant at Sirindhorn, Ubon Ratchathani.

Indirect subsidiary - Advance Agro Asia Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	PTT Public Company Limited	A 25-year agreement, effective since 10 February 2017. Unless any party provides a written notice to renew the agreement within 1 year before the contract's expiration, the agreement will be terminated.	Natural Gas Purchase Agreement for the power plant at Ko Khanun, Phanom Sarakham, Chachoengsao to produce and sell electricity under cogeneration system.

Indirect subsidiary - Advance Asia Power Plant Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Sribanpai Company Limited - a related party	A 12-year agreement, effective since 6 March 2015 and automatically renewed every year unless any party terminates contract by giving a written notice within 60 days before contract expiration.	Biomass Fuel Purchase Agreement for the power plant at Nam Phong, Khon Kaen.
2	Global Woodchips Company Limited - a related party	A 12-year agreement, effective since 1 July 2012 and automatically renewed every year unless any party terminates contract by giving a written notice within 60 days before contract expiration.	Biomass Fuel Purchase Agreement for the power plant at Nam Phong, Khon Kaen.

Absolute Clean Energy Public Company Limited

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45.5 Power purchase agreements for chippers

Indirect subsidiaries	Contract party	Contract period	Contract detail
Advance Clean Power Company Limited Advance Agro Power Plant Company Limited Alliance Clean Power Company Limited Advance Asia Power Plant Company Limited Advance Bio Asia Company Limited	Agro Energy Supply Company Limited - a related party	A 10-year agreement, effective since 1 April 2020 and automatically renewed every year unless any party terminates contract by giving a written notice.	Power Purchase Agreement for chippers of a contract party settled in indirect subsidiaries biomass power plants.

45.6 Fuel material purchase agreements

Indirect subsidiaries	Contract party	Contract period	Contract detail
Advance Clean Power Company Limited Advance Agro Power Plant Company Limited Alliance Clean Power Company Limited Advance Asia Power Plant Company Limited Advance Bio Asia Company Limited	Agro Energy Supply Company Limited - a related party	A 1-year agreement, effective since 1 April 2020 and automatically renewed every year unless any party terminates the contract by giving a written notice.	Biomass Fuel Purchase Agreement for the power plants of the indirect subsidiaries
Advance Asia Energy Company Limited Advance Bio Energy Company Limited Absolute Clean Engineering and Service Company Limited		A 2-year and 9-month agreement, effective from 1 April 2021 to 31 December 2023.	Biomass Fuel Purchase Agreement for the power plants of the indirect subsidiaries

45.7 Power plant management and maintenance agreement

Indirect subsidiary - Advance Agro Asia Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Collaboration between General Electric International Operation Company Inc. and GE Packed Power, Inc.	(1) An agreement period of 120,000 hours commencing from 10 February 2017 or the second major overhaul whichever one comes last or (2) a 16-year commencing from 23 December 2016 whichever (1) or (2) comes first.	Management and maintenance service agreement for gas turbine service of the power plant at Phanom Sarakham, Chachoengsao.

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45.8 Biomass fuel management and housekeeping services agreement

Indirect subsidiaries	Contract party	Contract period	Contract detail
Advance Clean Power Company Limited Advance Agro Power Plant Company Limited Alliance Clean Power Company Limited Advance Asia Power Plant Company Limited Advance Bio Asia Company Limited	Goodwill Innovation and Engineering Company Limited - a related party	1 year and 2 months, from 1 November 2020 to 31 December 2021. Then, the indirect subsidiaries have entered into new agreements which is effective for 1 year, from 1 January 2022 to 31 December 2022.	Biomass fuel management and housekeeping services for biomass power plants of indirect subsidiaries.
Advance Asia Energy Company Limited Advance Bio Energy Company Limited Absolute Clean Engineering and Service Company Limited		9 months, from 1 April 2021 to 31 December 2021. Then, the indirect subsidiaries have entered into new agreements which is effective for 1 year, from 1 January 2022 to 31 December 2022.	

45.9 Land and Building rental agreements

Indirect subsidiary - Alliance Clean Power Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Khon Kaen Municipality	A 20-year agreement, effective since 18 August 2011	Land rental agreement for operation in accordance with Municipal Solid Waste project at Mueang, Khon Kaen
2		A 20-year agreement, effective since 18 August 2011	Buildings and other constructions rental agreement, including land related to the buildings at Mueang, Khon Kaen.
3		A 20-year agreement, effective since 18 August 2011	Constructions agreement in Khon Kaen Municipality area, buildings and machinery will be transferred to Khon Kaen Municipality at maturity of 20 years since commencement date.
4	Krabi Municipality	A 25-year agreement, effective since 22 February 2019	Land rental agreement for the operation in accordance with Municipal Solid Waste project at Mueang Krabi, Krabi.
5		A 25-year agreement, effective since 22 February 2019	Constructions agreement in Krabi Municipality area, buildings and machinery will be transferred to Krabi Municipality at maturity 25-years since commencement date.
6		A 25-year agreement, effective from 24 September 2020 to 23 September 2045	Land rental agreement for dredging as a water reservoir for uses in the Municipal Solid Waste project in Muang Krabi, Krabi.

Absolute Clean Energy Public Company Limited

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Indirect subsidiary - Bio Power Plant Company Limited

Contract no.	Contract party	Contract period	Contract detail
1	Mr. Teerawut Songmetta - a related person	A 23-year agreement, effective from 9 May 2019 to 8 May 2042	Land rental agreement for Khlong Khlung power plant project at Khlong Khlung, Kamphaeng Phet.
2	Shaiyo Smile Company Limited - a related party	A 23-year agreement, effective from 9 May 2019 to 8 May 2042	Land rental agreement for Khlong Khlung power plant project at Khlong Khlung, Kamphaeng Phet.

Indirect subsidiary - Advance Clean Power Company Limited

Contract party	Contract period	Contract detail
Shaiyo Smile Company Limited - a related party	A 23-year agreement, effective from 1 January 2020 to 31 December 2042	Land rental agreement for Khlong Khlung power plant project in Khlong Khlung, Kamphaeng Phet

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45.10 Power Purchase Agreements under submission for dismissal the termination and reinstate the agreements and extend the scheduled commercial operation date

The Group has Power Purchase Agreements under submission for dismissal to dismiss the termination and reinstate the agreements and extend the scheduled commercial operation date as at 31 December 2022 and 2021 as follows:

Government	Indirect subsidiaries	Number of agreements under submission process	
		2022 Agreement (s)	2021 Agreement (s)
The Supreme Administrative Court	Alliance Clean Power Company Limited	1	0
		1	0
The Administrative Court of First Instance (The Central Administrative Court)	Advance Clean Power Company Limited	3	0
	Advance Agro Power Plant Company Limited	1	0
	Alliance Clean Power Company Limited	1	1
	Advance Farm Tree Company Limited	1	0
	Bio Power Plant Company Limited	1	0
	Absolute Clean Water Company Limited	1	0
		8	1
The Provincial Electricity Authority ("PEA")	Advance Clean Power Company Limited	0	3
	Advance Agro Power Plant Company Limited	0	1
	Alliance Clean Power Company Limited	0	1
	Advance Farm Tree Company Limited	0	1
	Bio Power Plant Company Limited	0	1
	Absolute Clean Water Company Limited	0	1
		0	8

The Supreme Administrative Court

Indirect subsidiary - Alliance Clean Power Company Limited

On 5 May 2017, the Group's management considered the progress of its submission to the Provincial Electricity Authority (PEA) for dismissing the termination, reinstating a Power Purchase Agreement and extending the scheduled commercial operation date. The Group decided to file a lawsuit to the Energy Regulatory Commission (ERC), requesting the ERC dismiss the termination, reinstate the agreement and extend the scheduled commercial operation date.

On 22 March 2018, the Group's management considered the progress of its submission to the ERC. The Group decided to file a lawsuit to the Administrative Court of First Instance requesting the court dismiss the termination, reinstate the agreement and extend the scheduled commercial operation date.

In addition, on 3 April 2019, the indirect subsidiary sent a letter to the PEA requesting a negotiation to resolve the dispute in accordance with a clause in the Power Purchase Agreement. The PEA responded to the letter with information on the conditions and rules for negotiations. The indirect subsidiary then followed these conditions and rules.

On 9 June 2020, PEA sent a letter to the indirect subsidiary to revise the conditions and rules for negotiation. The revised conditions do not affect the judicial process.

On 25 April 2022, the Central Administrative Court dismiss the claim. On 24 May 2022, the indirect subsidiary lodged an appeal against the judgment with the Supreme Administrative Court.

As at 31 December 2022, the Supreme Administrative Court is considering the case.

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The Administrative Court of First Instance (The Central Administrative Court)

Indirect subsidiaries - Advance Clean Power Company Limited, Advance Agro Power Plant Company Limited, Alliance Clean Power Company Limited, Advance Farm Tree Company Limited, Bio Power Plant Company Limited, and Absolute Clean Water Company Limited

On 14 March 2017, the Group filed arbitration committee lawsuits to dismiss the termination by the PEA, reinstate 8 Power Purchase Agreements (8 cases) and extend the scheduled commercial operation date to the indirect subsidiaries. On 29 June 2019, the indirect subsidiaries received awards from the arbitration committee dated 21 June 2019 for 4 agreements (4 cases): 2 cases for Advance Clean Power Company Limited, 1 case for Advance Agro Power Plant Company Limited and 1 case for Advance Farm Tree Company Limited. On 26 July 2019, the indirect subsidiaries also received awards from the arbitration committee dated 19 July 2019 for 4 agreements (4 cases): 1 case for Advance Clean Power Company Limited, 1 case for Alliance Clean Power Company Limited, 1 case for Bio Power Plant Company Limited and 1 case for Absolute Clean Water Company Limited. The arbitration committee ruled that the PEA must return 8 FIT Power Purchase Agreements to the indirect subsidiaries and extend the scheduled commercial operation date. In July 2019, the indirect subsidiaries submitted notices to the PEA to comply with the awards from the arbitration committee and PEA sent letters to the indirect subsidiaries stated that PEA would comply with the awards from the arbitration.

On 5 April 2022, the indirect subsidiaries filed lawsuits to the Central Administrative Court to force the PEA to comply with the awards from the arbitration. The Central Administrative Court has accepted the petition for consideration.

As at 31 December 2022, the Central Administrative Court is considering the case.

46 Promotional privileges

The Group received the following promotional privileges from the Board of Investment as the following :

Indirect subsidiary - Advance Clean Power Company Limited

BOI Certificate	Date of approval	Products	Income first derived date	Privilege expired date	Significant privileges							
					1	2	3	4	5	6	7	8
1842(1)/2553	13 July 2010	Electricity from biomass fuel type Utility 7.1 and basic services (Ban Bueng)	24 April 2012	23 April 2020	✓	✓	✓	✓	✓	✓	✓	-
2554(1)/2554	29 November 2011	Electricity from biomass fuel type Utility 7.1 and basic services (Phon Thong)	4 June 2013	3 June 2021	✓	✓	✓	✓	✓	✓	✓	-
2329(1)/2555	13 March 2012	Electricity from biomass fuel type Utility 7.1 and basic services (Khlong Khlung)	26 November 2021	25 November 2029	✓	✓	✓	✓	✓	✓	✓	-
2330(1)/2555	29 November 2011	Electricity from biomass fuel type Utility 7.1 and basic services (Bo Phloi)	16 August 2017	15 August 2025	✓	✓	✓	✓	✓	✓	✓	-

Indirect subsidiary - Advance Agro Power Plant Company Limited

BOI Certificate	Date of approval	Products	Income first derived date	Privilege expired date	Significant privileges							
					1	2	3	4	5	6	7	8
2446(1)/2553	16 November 2010	Electricity from biomass fuel type Utility 7.1 and basic services (Chokchai)	16 January 2013	15 January 2021	✓	✓	✓	✓	✓	✓	✓	-
1019(1)/2554	16 November 2010	Electricity from biomass fuel type Utility 7.1 and basic services (Prasat)	30 October 2012	29 October 2020	✓	✓	✓	✓	✓	✓	✓	-

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Indirect subsidiary - Alliance Clean Power Company Limited

BOI Certificate	Date of approval	Products	Income first derived date	Privilege expired date	Significant privileges							
					1	2	3	4	5	6	7	8
1284(1)/2554	18 January 2011	Electricity from biomass fuel type Utility 7.1 and basic services (Si Chiang Mai)	26 December 2013	25 December 2021	✓	✓	✓	✓	✓	✓	✓	-
1448(1)/2555	13 March 2012	Electricity from biomass fuel type Utility 7.1 and basic services (Sirindhorn)	14 August 2015	13 August 2023	✓	✓	✓	✓	✓	✓	✓	-
59-0076-0-13-2-0	29 July 2014	Electricity from solid waste type Utility 7.1 and basic services (Khon Kaen)	29 November 2016	28 November 2024	✓	✓	✓	✓	✓	✓	✓	-
63-0246-1-00-2-0	27 January 2020	Electricity from solid waste type Utility 7.1.1.1 or electricity generation and steam production from waste or fuel waste (Krabi)	28 December 2020	27 December 2028	✓	✓	✓	-	-	-	✓	-

Indirect subsidiary - Advance Agro Asia Company Limited

BOI Certificate	Date of approval	Products	Income first derived date	Privilege expired date	Significant privileges							
					1	2	3	4	5	6	7	8
58-1885-0-00-1-0	2 April 2015	Electricity and steam from gas Utility type 7.1 and basic services (Koh Khanun)	10 February 2017	9 February 2025	✓	-	✓	-	-	-	✓	✓

Indirect subsidiary - Advance Asia Power Plant Company Limited

BOI Certificate	Date of approval	Products	Income first derived date	Privilege expired date	Significant privileges							
					1	2	3	4	5	6	7	8
1948(1)/2553	10 August 2010	Electricity from biomass fuel type Utility 7.1 and basic services (Nam Phong)	2 May 2012	1 May 2020	✓	✓	✓	✓	✓	✓	✓	-
64-0378-1-00-1-0	18 January 2021	Sanitary landfill service	18 January 2021	18 January 2029	✓	-	✓	-	-	-	✓	✓

Indirect subsidiary - Advance Bio Asia Company Limited

BOI Certificate	Date of approval	Products	Income first derived date	Privilege expired date	Significant privileges							
					1	2	3	4	5	6	7	8
1521(1)/2555	29 November 2011	Electricity from biomass fuel type Utility 7.1 and basic services (Thoen)	9 July 2014	8 July 2022	✓	✓	✓	✓	✓	✓	✓	-

Indirect subsidiary - ACE Solar Company Limited

BOI Certificate	Date of approval	Products	Income first derived date	Privilege expired date	Significant privileges							
					1	2	3	4	5	6	7	8
61-0856-1-00-1-0	2 July 2018	Electricity generation from solar rooftop type 7.1.1.2 or electricity generation and steam production from renewable resources except from waste or fuel from waste	20 November 2018	19 November 2026	✓	-	✓	-	-	-	✓	✓
61-1012-1-00-1-0	23 July 2018	Electricity generation from solar rooftop type 7.1.1.2 or electricity generation and steam production from renewable resources except from waste or fuel from waste	22 February 2019	21 February 2027	✓	-	✓	-	-	-	✓	✓
62-0089-1-00-1-0	7 January 2019	Electricity generation from solar rooftop type 7.1.1.2 or electricity generation and steam production from renewable resources except from waste or fuel from waste	28 September 2019	27 September 2027	✓	-	✓	-	-	-	✓	✓
62-1068-1-00-1-0	12 September 2019	Electricity generation from solar rooftop type 7.1.1.2 or electricity generation and steam production from renewable resources except from waste or fuel from waste	1 May 2020	30 April 2028	✓	-	✓	-	-	-	✓	✓
63-0656-1-00-1-0	18 May 2020	Electricity generation from solar type 7.1.1.2 or electricity generation and steam production from renewable resources except from waste or fuel from waste	25 February 2021	24 February 2029	✓	-	✓	-	-	-	✓	✓

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Indirect subsidiary - Advance Asia Energy Company Limited

BOI Certificate	Date of approval	Products	Income first derived date	Privilege expired date	Significant privileges							
					1	2	3	4	5	6	7	8
1524(9)/2551	21 May 2008	Electricity from biomass fuel type Utility 7.1 and basic services	11 October 2011	10 October 2019	✓	✓	✓	-	-	✓	✓	-

Indirect subsidiary - Absolute Clean Water Company Limited

BOI Certificate	Date of approval	Products	Income first derived date	Privilege expired date	Significant privileges							
					1	2	3	4	5	6	7	8
64-0278-1-00-1-0	7 January 2021	Water supply type 7.1.2 Production of tap water, water supply for industry or steam	13 August 2021	12 August 2026	✓	-	✓	-	-	-	✓	✓

Indirect subsidiary - Bio Power Plant Company Limited

BOI Certificate	Date of approval	Products	Income first derived date	Privilege expired date	Significant privileges							
					1	2	3	4	5	6	7	8
65-0012-1-00-1-0	3 August 2021	Electricity generation type 7.1.1.2 or electricity generation and steam production from renewable resources except from waste or fuel from waste	Income not yet derived		✓	-	✓	-	-	-	✓	✓
65-0036-1-00-1-0	2 November 2021	Electricity generation type 7.1.1.2 or electricity generation and steam production from renewable resources except from waste or fuel from waste	Income not yet derived		✓	-	✓	-	-	-	✓	✓

* Significant privileges:

- 1 Exemption from import duties on machines imported for use in production approved by Board of Directors.
- 2 Exemption from corporate income tax on the promoted activities for a period of five to eight years starting from the date that income is first derived from the promoted activities.
- 3 To carry forward any net loss incurred during the promoted period to be deducted from net profit incurred during the five-year period starting from the expiry of the tax-exempted period.
- 4 Exemption from corporate income tax on net profit earned from promoted activities at the rate of 50% of normal rate for a period of five years from the expiry of the period specified in 2 above.
- 5 Transportation, electricity and water supply fees can be deducted at the rate of two times of expenditure for a period of ten years starting from the date that income is first derived.
- 6 Capital expenditure incurred on installation or construction of facilities can be deducted at the rate of 25% of the actual expenditure, in addition to the normal depreciation charge.
- 7 Exemption from inclusion of dividend received from the promoted business in calculating corporate income tax.
- 8 Exemption from corporate income tax on net profit earned from promoted activities in totals of not exceeding 100% of investments not including the land and current capital of a period of five to eight years starting from the date that income is first derived.

The Group has to comply with the conditions defined in Board of Investment (BOI) certificate in order to receive the above benefits and rights.

Segment revenue from BOI promoted and non-promoted activities for the years ended 31 December 2022 and 2021 comprises of the followings:

	Consolidated financial statements					
	For the year ended 31 December 2022			For the year ended 31 December 2021		
	Promoted Activities Baht	Non-promoted activities Baht	Total Baht	Promoted activities Baht	Non-promoted activities Baht	Total Baht
Sales of electricity	5,869,502,882	449,260,428	6,318,763,310	4,568,349,336	556,636,785	5,124,986,121
Adder	123,620,700	-	123,620,700	131,983,008	-	131,983,008
Sales of steam	3,971,480	-	3,971,480	8,380,863	-	8,380,863
Revenue from the waste management service	-	55,715,326	55,715,326	-	50,535,469	50,535,469
Other income	3,636,273	13,320,104	16,956,377	2,050,700	10,699,986	12,750,686
	6,000,731,335	518,295,858	6,519,027,193	4,710,763,907	617,872,240	5,328,636,147

Promoted activities comprise of exemption from corporate income tax on the promoted activities and exemption from corporate income tax on net profit earned from promoted activities at the rate of 50% of normal rate.

Notes to the Consolidated and Separate Financial Statements

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47 Subsequent events

47.1 Call for paid-up share capital

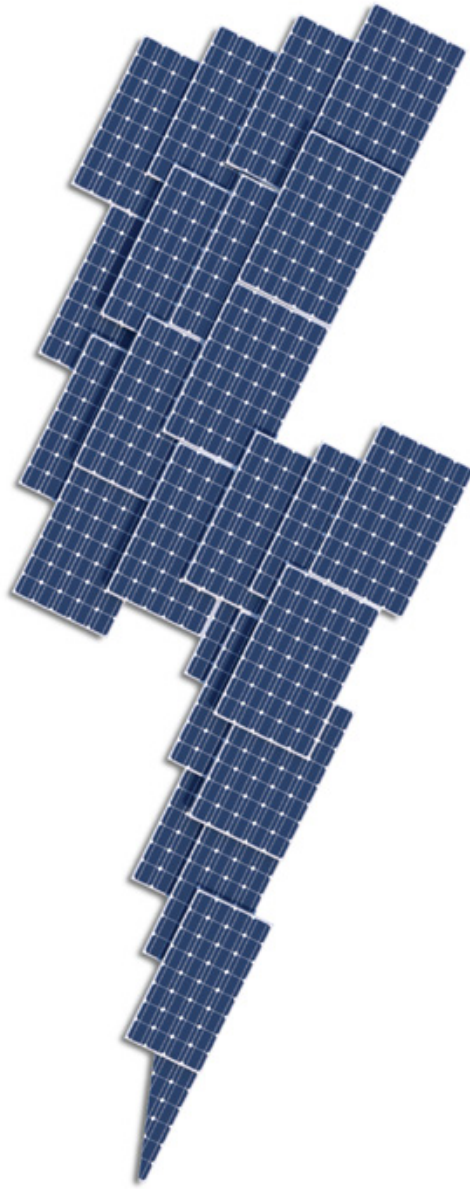
Subsidiaries	No. of shares	Share value before called for paid-up	Called for paid-up share capital	Share value after called for paid-up	Amount (Baht)
<u>Indirect subsidiaries</u>					
Renewable Energy Siam Company Limited	13,000,000	2.50	0.24	2.74	3,120,000
Alliance Clean Power Company Limited	55,000,000	9.71	0.29	10.00	15,950,000
	18,000,000	2.50	4.71	7.21	84,780,000

47.2 Dividend payments

Subsidiaries	Interim dividend payment from	Dividend (Baht/Share)	Total amount (Baht)	Dividend Payment Date	Appropriation of legal reserve (Baht)
<u>Indirect subsidiaries</u>					
Advance Agro Power Plant Company Limited	Retained earnings as at 30 November 2022	0.18	18,000,000	26 January 2023	-
Advance Agro Asia Company Limited	Retained earnings as at 30 November 2022	0.37	55,500,000	26 January 2023	3,000,000
Advance Asia Power Plant Company Limited	Retained earnings as at 31 December 2022	0.42	23,970,450	22 February 2023	-
Advance Clean Power Company Limited	Retained earnings as at 31 December 2022	0.41	72,924,650	22 February 2023	12,800,000
Alliance Clean Power Company Limited	Retained earnings as at 31 December 2022	0.27	74,224,350	22 February 2023	10,800,000

Attachment





***Convert Sunlight
to Energy***

Attachment 1: The Company Directors, Executives, Executive Directors, and Company Secretary of Absolute Clean Energy Public Company Limited and Subsidiary Companies

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
1. Mr. Monton Sudpresert Chairman of the Board of Directors / Independent Director (28 April 2021)	62	<ul style="list-style-type: none"> Bachelor of Engineering (Civil), King Mongkut's University Thonburi Master of Engineering (Sanitation), Chulalongkorn University Master of Public Administration, Chulalongkorn University National Defense College of Thailand class 2009 Qualification Engineer in Civil Engineering Intermediate Executive Program, Class 9, Department of Public Works Senior Administrator Course, Class 48, Ministry of Interior Government Administration and Public Law Course, Class 6, King Prajadhipok's Institute OCSC scholarship, Thai Senior Executive Development Program at Nation Graduate Institute for Policy Studies (GRIPS), Japan. 	-	-	2021 - Present	Chairman of the Board of Directors and Independent Director	Absolute Clean Energy Public Company Limited
					2012 - 2020	Director General	Department of Public Works and Town & Country Planning
					2010 - 2012	Deputy Director-General	Department of Public Works and Town & Country Planning
					2009 - 2010	Director of the Office of Urban Planning Support and Development	Department of Public Works and Town & Country Planning
					2008 - 2009	Inspector General, Department of Public Works and Town & Country Planning	Department of Public Works and Town & Country Planning
					2005 - 2008	Professional Engineer Level 9 (Civil Engineering), Bureau of Construction and System Engineering	Department of Public Works and Town & Country Planning

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
		<ul style="list-style-type: none"> Training Courses for the Development of Senior Executives, Government Agency Executives Class 3 					
2. Mr. Charoon Intachan Director and Independent Director (14 July 2018)	79	<ul style="list-style-type: none"> Ph.D. (Public Administration), Eastern Asia University Ph.D. (Public Administration), Western University M.A. (Political Science), Ramkhamhaeng University Barrister-at-law, The Thai Bar Association Bachelor of Laws, Thammasat University Director Certification Program DCP (176/2013), Thai Institute of Directors Training Course of Capital Market Academy (DMA 13), Thai Institute of Directors Top Executive Program in Commerce and Trade (TEPCot 4), Thai Institute of Directors 	-	-	2018 - Present	Director Independent Director	Absolute Clean Energy Public Company Limited
					2015 - Present	Director of Council of State	Council of State
					2015 - Present	Independent Director	Bangkok Post Public Company Limited
					2016 - 2018	Honorary Member	Suratthani Rajabhat University Council
					2014 - 2015	Constitution Drafting Committee	The Secretariat of the House of Representatives
					2013 - 2014	President of the Constitutional Court	The Constitutional Court
3. Ms. Chonticha Chitraporn Chairman of Audit Committee and Independent Director (29 June 2017)	65	<ul style="list-style-type: none"> Master Degree in Applied Economics, Faculty of Economics, University of Michigan, USA Master Degree in Language and International Trade, 	-	-	2022 - Present	Chairman of the Risk Management Committee/ Member of the Audit Committee/ Independent Director	South East Life Insurance Public Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
		Faculty of Economics, Eastern Michigan University, USA <ul style="list-style-type: none"> Bachelor Degree in Accounting, Thammasat University, Thailand Director Accreditation Program (DAP 143/2017), Thai Institute of Directors Advanced Audit Committee Program AACP (33/2019), Thai Institute of Directors Seminar on Accounting knowledge that AC should not miss by the SEC on 22 July 2022 Seminar on Value of Audit by SEC on 2 December 2022 			2022 - Present	Investment Consultant	Thai Red Cross Society
					2022 - Present	Chairman of the Audit Committee/ Independent Director	Qualitech Public Company Limited
					2020 - Present	Chairman of the Corporate Governance Committee, Audit Committee, Risk Management Committee, Independent Director	Major Cineplex Group Public Company Limited
					2017 - Present	Chairman of Audit Committee Independent Director	Absolute Clean Energy Public Company Limited
					2018 - 2021	Chairman of the Risk Management Committee, Audit Committee, Director and Independent Director	Advance Life Assurance Public Company Limited
					2018 - 2021	Director, Independent Director, and Audit Committee	International Research Corporation Public Company Limited
					2014 - 2020	Member of the Risk Management Committee	Dhanarak Asset Development Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
4. Mr. Nuekrak Baingern Director, Independent Director and Member of Audit Committee (29 June 2017) and Member of the Nomination and Remuneration Committee (15 September 2017)	68	<ul style="list-style-type: none"> MBA, Faculty of Administration, University of Detroit, Michigan, USA Bachelor of Commerce, Major in Marketing, Chulalongkorn University, Thailand Director Accreditation Program (DAP 143/2017), Thai Institute of Directors Seminar on Accounting knowledge that AC should not miss by the SEC on 22 July 2022 Seminar on Value of Audit by SEC on 2 December 2022 	-	-	2017 - Present	Director, Independent Director, Audit Committee, Nomination and Remuneration Committee	Absolute Clean Energy Public Company Limited
					2018 - 2021	Chairman of the Audit Committee, Director and Independent Director	Advance Life Assurance Public Company Limited
					2014 - 2020	Managing Partner	Punyapol Limited Partnership
					2012 - 2016	Advisor - Project Management and Information Technology	Advance Life Assurance Public Company Limited
					2000 - 2012	Executive Vice President-Operation	CIMB Thai Bank Public Company Limited
5. Mrs. Patchanee Suthaveevitanunt Member of the Audit Committee, Director and Independent Director (29 June 2017) and Chairman of the Nomination and Remuneration Committee (15 September 2017)	67	<ul style="list-style-type: none"> MA in Counseling Psychology, Faculty of Psychology, Spalding University, USA Bachelor of Liberal Arts, Psychology, Thammasat University, Thailand Director Accreditation Program (DAP 143/2017), Thai Institute of Directors 	-	-	2017 - Present	Chairman of Nomination and Remuneration Committee, Audit Committee, Director, and Independent Director	Absolute Clean Energy Public Company Limited
					2018 - 2021	Director	Advance Life Assurance Public Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
		<ul style="list-style-type: none"> Seminar on Accounting knowledge that AC should not miss by the SEC on 22 July 2022 Seminar on Value of Audit by SEC on 2 December 2022 			2015 - 2016	Director	Advance Life Assurance Public Company Limited
					2013 - 2016	Executive Consultant	Advance Life Assurance Public Company Limited
6. Miss Jiratha Songmetta Director (3 December 2015) Member of the Nomination and Remuneration Committee (15 September 2017) and Chairman of Executive Committee (15 September 2017) Former name Ms. Siriwun Dumnernchanvanit Songmetta	64	<ul style="list-style-type: none"> Bachelor of Business Administration, Ramkhamhaeng University Advanced Financial Management Course (Mini MBA), Thammasat University Director Certification Program (DCP 4/2000), Thai Institute of Directors The Rule of Law for Democracy (Class 2), 2014 The Office of the Constitutional Court The National Defense Course for The Joint State - Private Sector, (Class 22), 2010, National Defense Studies Institute / National Defense College The Programme for Senior Executives on Justice Administration Batch 13, 2009, National Justice 	-	<ul style="list-style-type: none"> - Wife (status: divorce) of Pol.Gen.Dr. Wirachai Songmetta, Shareholder who owns 22.43% of the Company's shares. - Mother of Mr. Teerawut Songmetta, Director and Shareholder who owns 17.89% of the Company's shares. - Mother of Mr. Nath Songmetta, Shareholder 	Dec. 2015 - Present	Director	Absolute Clean Energy Public Company Limited
					Sep. 2017 - Present	Chairman of Executive Committee	Absolute Clean Energy Public Company Limited
					Sep. 2017 - Present	Member of the Nomination and Remuneration Committee	Absolute Clean Energy Public Company Limited
					Jun. 2012 - Present	Chairman of the Board of Directors	Asian Clean Energy Company Limited
					Dec. 2009 - Present	Chairman of the Board of Directors	Advance Agro Asia Company Limited
					Nov. 2013 - Present	Chairman of the Board of Directors	Alliance Clean Power Company Limited
					Nov. 2012 - Present	Chairman of the Board of Directors	Advance Clean Power Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
		Academy, Judicial Training Institute / Office of Judiciary • Tax Law Certificate, 2009, Institute of Training, Research and Development for Tax Law / Central Tax Court		who owns 14.99% of the Company's shares. - Mother of Mr. Pornmett Songmetta Director and Shareholder who owns 20.53% of the Company's shares.	Nov. 2012 - Present	Chairman of the Board of Directors	Advance Agro Power Plant Company Limited
					Feb. 2014 - Present	Chairman of the Board of Directors	Advance Asia Power Plant Company Limited
					Nov. 2013 - Present	Chairman of the Board of Directors	Advance Bio Asia Company Limited
					Oct. 2016 - Present	Chairman of the Board of Directors	Advance Farm Tree Company Limited
					Oct. 2016 - Present	Chairman of the Board of Directors	ACE Solar Company Limited
					Oct. 2016 - Present	Chairman of the Board of Directors	Bio Power Plant Company Limited
					Oct. 2018 - Present	Chairman of the Board of Directors	Absolute Clean Water Company Limited (Former: Prasatporn Rungrueng Company Limited)
					May 2018 - Present	Chairman of the Board of Directors	Power Supply & Maintenance Service Company Limited
					Mar. 2020 - Present	Chairman of the Board of Directors	Provincial Renewable Energy (Thailand) Company Limited
					Mar. 2020 - Present	Chairman of the Board of Directors	Renewable Energy Siam Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
					Mar. 2020 - Present	Chairman of the Board of Directors	Renewable Energy (North) Company Limited
					Mar. 2020 - Present	Chairman of the Board of Directors	Renewable Energy (Central) Company Limited
					Mar. 2020 - Present	Chairman of the Board of Directors	Renewable Energy (Northeast) Company Limited
					Aug. 2020 - Present	Chairman of the Board of Directors	Absolute Clean Engineering & Service Limited (Former: Satuek Biomass Company Limited, UWC Busaracum Biomass Co., Ltd.)
					Aug. 2020 - Present	Chairman of the Board of Directors	Advance Bio Energy Company Limited (Former name: UWC Amphan Biomass Co., Ltd., Advance Biopower Co., Ltd.)
					Aug. 2020 - Present	Chairman of the Board of Directors	Advance Asia Energy Company Limited (Former name: UWC Gomen Biomass Co., Ltd., TRC Clean Energy Co., Ltd.)
					May 2022 - Present	Chairman of the Board of Directors	National Clean Energy Company Limited
					May 2022 - Present	Chairman of the Board of Directors	Absolute Power Plant Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
For more details about Songmetta group, please read in Details regarding the Company Director, Executive and Director with Authorization of the Songmetta Group in other companies							
7. Mr. Teerawut Songmetta Director (3 December 2015) Executive director (28 February 2018) and Chief Executive Technology & Innovation Officer (1 March 2018)	33	<ul style="list-style-type: none">Bachelor Degree, Industrial and Enterprise Systems Engineering, University of Illinois at Urbana Champaign, USADirector Accreditation Program (DAP 146/2018), Thai Institute of Directors	17.95%	- Son of Pol.Ge.Dr. Wirachai Songmetta, Shareholder who owns 22.43% of the Company's shares and Mrs. Jiratha Songmetta, Director, Nomination and Remuneration Committee, and the Company Executive Chairman.	Dec. 2015 - Present	Director	Absolute Clean Energy Public Company Limited
				- Older brother of Mr. Nath Songmetta, Shareholder who owns 15.52% of the Company's shares.	Feb. 2018 - Present	Executive Director	Absolute Clean Energy Public Company Limited
				- Older brother of Mr. Pornmett Songmatta,	Mar. 2018 - Present	Chief Executive Technology & Innovation Officer	Absolute Clean Energy Public Company Limited
					Oct. 2018 - Present	Director	Asian Clean Energy Company Limited
					Nov. 2014 - Present	Director	Advance Agro Asia Company Limited
					Nov. 2014 - Present	Director	Alliance Clean Power Company Limited
					Nov. 2014 - Present	Director	Advance Clean Power Company Limited
					Nov. 2014 - Present	Director	Advance Agro Power Plant Company Limited
					Nov. 2014 - Present	Director	Advance Asia Power Plant Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
				Director and Shareholder who owns 20.53% of the Company's shares.	Nov. 2014 - Present	Director	Advance Bio Asia Company Limited
					Oct. 2016 - Present	Director	Advance Farm Tree Company Limited
					Oct. 2016 - Present	Director	ACE Solar Company Limited
					Oct. 2016 - Present	Director	Bio Power Plant Company Limited
					Oct. 2018 - Present	Director	Absolute Clean Water Company Limited (Former: Prasatporn Rungrueng Company Limited)
					May 2018 - Present	Director	Power Supply & Maintenance Service Company Limited
					Mar. 2020 - Present	Director	Provincial Renewable Energy (Thailand) Company Limited
					Mar. 2020 - Present	Director	Renewable Energy Siam Company Limited
					Mar. 2020 - Present	Director	Renewable Energy (North) Company Limited
					Mar. 2020 - Present	Director	Renewable Energy (Central) Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
					Mar. 2020 - Present	Director	Renewable Energy (Northeast) Company Limited
					Aug. 2020 - Present	Director	Absolute Clean Engineering and Service Co., Ltd. (former name Satuk Biomass Co., Ltd., UWC Busaracum Biomass Co., Ltd.)
					Aug. 2020 - Present	Director	Advance Bio Energy Co., Ltd. (Formerly UWC Amber Biomass Co., Ltd., Advance Biopower Co., Ltd.)
					Aug. 2020 - Present	Director	Advance Asia Energy Co., Ltd. (formerly UWC Garnet Biomass Co., Ltd., TRC Clean Energy Co., Ltd.)
					Mar. 2020 - Present	Director / Chief Executive Officer	Khun Tan Progress Community Power Plant Co., Ltd.
					Mar. 2020 - Present	Director / Chief Executive Officer	Khun Tan Phatthana Community Power Plant Co., Ltd.
					Mar. 2020 - Present	Director / Chief Executive Officer	Khun Tan Community Power Plant Company Limited
					Mar. 2020 - Present	Director / Chief Executive Officer	Rang Bua Progress Community Power Plant Co., Ltd.

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
					Mar. 2020 - Present	Director / Chief Executive Officer	Chom Bueng Rung Ruang Community Power Plant Company Limited
					Apr. 2020 - Present	Director / Chief Executive Officer	Khun Tan Rung Ruang Community Power Plant Company Limited
					May 2020 - present	Director / Chief Executive Officer	Kamphaeng Phet Kao Klai Community Power Plant Co., Ltd.
					May 2020 - present	Director / Chief Executive Officer	Buriram Ruamjai Community Power Plant Company Limited
					Mar. 2020 - Present	Director / Chief Executive Officer	Kamphaeng Phet Phatthana Community Power Plant Company Limited
					Mar. 2020 - Present	Director / Chief Executive Officer	Khun Tan Ruam Jai Community Power Plant Company Limited
					Apr. 2020 - Present	Director / Chief Executive Officer	Tarrungrueng Community Power Plant Co., Ltd.
					Apr. 2020 - Present	Director / Chief Executive Officer	Khanu Woralaksaburi Community Power Plant Company Limited
					Apr. 2020 - Present	Director / Chief Executive Officer	Kamphaeng Phet Community Power Plant Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
					Mar. 2020 - Present	Director / Chief Executive Officer	Khlong Khlung Pattana Community Power Plant Company Limited
					Mar. 2020 - Present	Director / Chief Executive Officer	Ta Phatthana Community Power Plant Co., Ltd.
					Apr. 2020 - Present	Director / Chief Executive Officer	Nong Hong Community Power Plant Company Limited
					Apr. 2020 - Present	Director / Chief Executive Officer	Ta Progressive Community Power Plant Co., Ltd.
					Apr. 2020 - Present	Director / Chief Executive Officer	Ta Community Power Plant Co., Ltd.
					Apr. 2020 - Present	Director	National Clean Energy Company Limited
					Apr. 2020 - Present	Director	Absolute Power Plant Company Limited
For more details about Songmetta group, please read in Details regarding the Company Director, Executive and Director with Authorization of the Songmetta Group in other companies							
8. Mr. Pornmett Songmetta Director (3 December 2015) Executive Director (15 September 2017)	30	<ul style="list-style-type: none">Bachelor of International Business Management, International Program, Chulalongkorn University	20.53%	- Son of Pol.Ge.Dr. Wirachai Songmetta, Shareholder who owns	Dec. 2015 - Present Sep. 2017 - Present	Director Executive Director	Absolute Clean Energy Public Company Limited Absolute Clean Energy Public Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
and Chief Operating Officer (1 March 2018)		<ul style="list-style-type: none"> Director Accreditation Program (DAP 139/2017), Thai Institute of Directors Institute of Business and Industrial Development IBD (5/2018), Institute of Business and Industrial Development 		22.43% of the Company's shares and Mrs. Jiratha Songmetta, Director, Nomination and Remuneration Committee, and the Company Executive Chairman. - Younger brother of Mr. Teerawut Songmetta, Shareholder who owns 17.95% of the Company's shares. - Younger brother of Mr. Nath Songmetta, Shareholder who owns 15.52% of the company's shares.	Mar. 2018 - Present	Chief Operating Officer	Absolute Clean Energy Public Company Limited
					Oct. 2015 - Present	Director	Asian Clean Energy Company Limited
					July 2019 - Present	Chief Executive Officer	Asian Clean Energy Company Limited
					Feb. 2017 - Present	Director	Advance Agro Asia Company Limited
					Feb. 2017 - Present	Director	Alliance Clean Power Company Limited
					Apr. 2019 - Present	Chief Executive Officer	Alliance Clean Power Company Limited
					Mar. 2017 - Present	Director	Advance Clean Power Company Limited
					Apr. 2019 - Present	Chief Executive Officer	Advance Clean Power Company Limited
					Feb. 2017 - Present	Director	Advance Agro Power Plant Company Limited
					Apr. 2019 - Present	Chief Executive Officer	Advance Agro Power Plant Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
					Feb. 2017 - Present	Director	Advance Asia Power Plant Company Limited
					Apr. 2019 - Present	Chief Executive Officer	Advance Asia Power Plant Company Limited
					Feb. 2017 - Present	Director	Advance Bio Asia Company Limited
					Apr. 2019 - Present	Chief Executive Officer	Advance Bio Asia Company Limited
					Feb. 2017 - Present	Director	Advance Farm Tree Company Limited
					July 2019 - Present	Chief Executive Officer	Advance Farm Tree Company Limited
					Feb. 2017 - Present	Director	ACE Solar Company Limited
					July 2019 - Present	Chief Executive Officer	ACE Solar Company Limited
					Feb. 2017 - Present	Director	Bio Power Plant Company Limited
					July 2019 - Present	Chief Executive Officer	Bio Power Plant Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
					Oct. 2018 - Present	Director	Absolute Clean Water Company Limited (Former: Prasatporn Rungrueng Company Limited)
					July 2019 - Present	Chief Executive Officer	Absolute Clean Water Company Limited (Former: Prasatporn Rungrueng Company Limited)
					May 2018 - Present	Director	Power Supply & Maintenance Service Company Limited
					July 2019 - Present	Chief Executive Officer	Power Supply & Maintenance Service Company Limited
					Mar. 2020 - Present	Director	Provincial Renewable Energy (Thailand) Company Limited
					Mar. 2020 - Present	Director	Renewable Energy Siam Company Limited
					Mar. 2020 - Present	Director	Renewable Energy (North) Company Limited
					Mar. 2020 - Present	Director	Renewable Energy (Central) Company Limited
					Mar. 2020 - Present	Director	Renewable Energy (Northeast) Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
					Aug. 2020 - Present	Director	Absolute Clean Engineering and Service Co., Ltd. (former name Satuk Biomass Co., Ltd., UWC Busaracum Biomass Co., Ltd.)
					Dec. 2020 - Present	Chief Executive Officer	Absolute Clean Engineering and Service Co., Ltd. (former name Satuk Biomass Co., Ltd., UWC Busaracum Biomass Co., Ltd.)
					Aug. 2020 - Present	Director	Advance Bio Energy Co., Ltd. (Formerly UWC Amber Biomass Co., Ltd., Advance Biopower Co., Ltd.)
					Dec. 2020 - Present	Chief Executive Officer	Advance Bio Energy Co., Ltd. (Formerly UWC Amber Biomass Co., Ltd., Advance Biopower Co., Ltd.)
					Aug. 2020 - Present	Director	Advance Asia Energy Co., Ltd. (formerly UWC Garnet Biomass Co., Ltd., TRC Clean Energy Co., Ltd.)
					Dec. 2020 - Present	Chief Executive Officer	Advance Asia Energy Co., Ltd. (formerly UWC Garnet Biomass Co., Ltd., TRC Clean Energy Co., Ltd.)

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
					Mar. 2020 - Present	Director	Khun Tan Progress Community Power Plant Co., Ltd.
					Mar. 2020 - Present	Director	Khun Tan Phatthana Community Power Plant Co., Ltd.
					Mar. 2020 - Present	Director	Khun Tan Community Power Plant Company Limited
					Mar. 2020 - Present	Director	Rang Bua Progress Community Power Plant Co., Ltd.
					May 2020 - Present	Director	Chom Bueng Rung Ruang Community Power Plant Company Limited
					Mar. 2020 - Present	Director	Khun Tan Rung Ruang Community Power Plant Company Limited
					Apr. 2020 - Present	Director	Kamphaeng Phet Kao Klai Community Power Plant Co., Ltd.
					May 2020 - Present	Director	Buriram Ruamjai Community Power Plant Company Limited
					May 2020 - Present	Director	Kamphaeng Phet Phatthana Community Power Plant Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
					Mar. 2020 - Present	Director	Khun Tan Ruam Jai Community Power Plant Company Limited
					Mar. 2020 - Present	Director	Tarrungrueng Community Power Plant Co., Ltd.
					Apr. 2020 - Present	Director	Khanu Woralaksaburi Community Power Plant Company Limited
					Apr. 2020 - Present	Director	Kamphaeng Phet Community Power Plant Company Limited
					Apr. 2020 - Present	Director	Khlong Khlung Pattana Community Power Plant Company Limited
					Mar. 2020 - Present	Director	Ta Phatthana Community Power Plant Co., Ltd.
					Mar. 2020 - Present	Director	Nong Hong Community Power Plant Company Limited
					Apr. 2020 - Present	Director	Ta Progressive Community Power Plant Co., Ltd.
					Apr. 2020 - Present	Director	Da Community Power Plant Company
					Apr. 2020 - Present	Director / Chief Executive Officer	National Clean Energy Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
					Apr. 2020 - Present	Director / Chief Executive Officer	Absolute Power Plant Company Limited
For more details about Songmetta group, please read in Details regarding the Company Director, Executive and Director with Authorization of the Songmetta Group in other companies							
9. Mr. Tanavijit Ankapipatchai Director (3 December 2015) Executive Director (15 September 2017) and Chief Financial Officer (1 March 2018) Former name Mr. Vijit Ankapipatchai	59	<ul style="list-style-type: none"> Bachelor of Accounting, Faculty of Commerce and Accountancy, Thammasat University Directors Certification Program (Class DCP 45/2004), Thai Institute of Directors Orientation Course - CFO Focus on Financial Reporting, Class 1/2018 	0.0%	-	Mar. 2018 - Present	Chief Financial Officer	Absolute Clean Energy Public Company Limited
					Sep. 2017 - Present	Executive Director	Absolute Clean Energy Public Company Limited
					Dec. 2015 - Present	Director	Absolute Clean Energy Public Company Limited
					Feb. 2017 - Present	Director	Asian Clean Energy Company Limited
					Jan. 2013 - Present	Director	Advance Agro Asia Company Limited
					Nov. 2013 - Present	Director	Alliance Clean Power Company Limited
					Nov. 2013 - Present	Director	Advance Clean Power Company Limited
					July 2006 - Present	Director	Advance Agro Power Plant Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
					Feb. 2014 - Present	Director	Advance Asia Power Plant Company Limited
					Nov. 2013 - Present	Director	Advance Bio Asia Company Limited
					Jun. 2008 - Present	Director	Advance Farm Tree Company Limited
					July 2006 - Present	Director	ACE Solar Company Limited
					July 2006 - Present	Director	Bio Power Plant Company Limited
					Feb. 2018 - Present	Director	Power Supply & Maintenance Service Company Limited
					July 2006 - Present	Director	Absolute Clean Water Company Limited (Former: Prasatporn Rungrueng Company Limited)
					Jan. 2015 - Feb. 2018	Co-Chief Executive Officer	Advance Agro Asia Company Limited
					Mar. 2020 - Present	Director	Provincial Renewable Energy (Thailand) Company Limited
					Mar. 2020 - Present	Director	Renewable Energy Siam Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
					Mar. 2020 - Present	Director	Renewable Energy (North) Company Limited
					Mar. 2020 - Present	Director	Renewable Energy (Central) Company Limited
					Mar. 2020 - Present	Director	Renewable Energy (Northeast) Company Limited
					Aug. 2020 - Present	Director	Absolute Clean Engineering and Service Co., Ltd. (former name Satuk Biomass Co., Ltd., UWC Busaracum Biomass Co., Ltd.)
					Aug. 2020 - Present	Director	Advance Bio Energy Co., Ltd. (Formerly UWC Amber Biomass Co., Ltd., Advance Biopower Co., Ltd.)
					Aug. 2020 - Present	Director	Advance Asia Energy Co., Ltd. (formerly UWC Garnet Biomass Co., Ltd., TRC Clean Energy Co., Ltd.)
					Mar. 2020 - Present	Director	Khun Tan Progress Community Power Plant Co., Ltd.
					Mar. 2020 - Present	Director	Khun Tan Phatthana Community Power Plant Co., Ltd.

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
					Mar. 2020 - Present	Director	Khun Tan Community Power Plant Company Limited
					Mar. 2020 - Present	Director	Rang Bua Progress Community Power Plant Co., Ltd.
					May 2020 - Present	Director	Chom Bueng Rung Ruang Community Power Plant Company Limited
					Mar. 2020 - Present	Director	Khun Tan Rung Ruang Community Power Plant Company Limited
					Apr. 2020 - Present	Director	Kamphaeng Phet Kao Klai Community Power Plant Co., Ltd.
					May 2020 - Present	Director	Buriram Ruamjai Community Power Plant Company Limited
					May 2020 - Present	Director	Kamphaeng Phet Phatthana Community Power Plant Company Limited
					Mar. 2020 - Present	Director	Khun Tan Ruam Jai Community Power Plant Company Limited
					Mar. 2020 - Present	Director	Tarrungrueng Community Power Plant Co., Ltd.

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Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
10. Mr. Tanachai Bunditvorapoom Director (14 July 2018) Chief Executive Officer (2 May 2017) and Executive Director (16 September 2017)	50	<ul style="list-style-type: none"> MBA (Finance), The National Institute of Development Administration Bachelor of Law (Business Law), Chulalongkorn University Bachelor of Engineering (Civil Engineering), Chulalongkorn University Director Leadership Certification Program (DLCP) Class 3/2021, Thai Institute of Directors Association Director Certification Program (DCP 252/2018), Thai Institute of Directors Board Nomination & Compensation Program (BNCP 6/2019), Thai Institute of Directors Ethical Leadership Program (ELP) Training, Class 26/2022, Thai Institute of Directors Association Training on Subsidiary Governance Program (SGP), Class 1/2022, Thai Institute of Directors Association Risk Management Program for Corporate Leaders (RCL), 	-	-	Jul. 2018 - Present	Director	Absolute Clean Energy Public Company Limited
					Sep. 2017 - Present	Executive Director	Absolute Clean Energy Public Company Limited
					May 2017 - Present	Chief Executive Officer	Absolute Clean Energy Public Company Limited
					Aug. 2019 - Present	Director	Asian Clean Energy Company Limited
					Aug. 2019 - Present	Director	Advance Agro Asia Company Limited
					Aug. 2019 - Present	Director	Bio Power Plant Company Limited
					Aug. 2019 - Present	Director	ACE Solar Company Limited
					Aug. 2020 - Present	Director	Absolute Clean Engineering & Service Limited (Former: Satuek Biomass Company Limited)
					Aug. 2020 - Present	Director	Advance Bio Energy Company Limited
					Aug. 2020 - Present	Director	Advance Asia Energy Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
		Class 29/2022, Thai Institute of Directors Association <ul style="list-style-type: none"> Advanced Master of Management Program, AMM (Class 6), Graduate School of Public Administration, National Institute of Development Administration TLCA Executive Development Program (EDP 9), Thai Listed Companies Association 			Feb. 2018 - Present Apr. 2018 - Present Jun. 2012 - Apr. 2017 Mar. 2011 - May 2012 Oct. 2003 - Feb. 2011	Director Nomination and Remuneration Committee FSVP - Head of Investment Banking Senior Vice President - Head of Investment Banking Assistant Managing Director	Synergetic Auto Performance Public Company Limited Synergetic Auto Performance Public Company Limited TISCO Securities Company Limited TISCO Bank Public Company Limited Finansia Securities Limited
11. Pol.Lt.Gen. Dr. Adul Narongsak Executive Director (15 September 2017)	62	<ul style="list-style-type: none"> Doctor of Philosophy (Ph.D.) in Criminology Justice Administration and society, Mahidol University Master of Public Administration (M.P.A.), National Institute of Development Administration (NIDA) Bachelor of Public Administration, Royal Police Cadet Academy 	-	-	2018 - Present 2017 2011 - 2016 2010 - 2011	Executive Director Special Expert of Royal Thai Police Deputy Commissioner of Metropolitan Police Bureau Commander of Institute of Investigation and Interrogation Affairs	Absolute Clean Energy Public Company Limited Royal Thai Police Royal Thai Police Royal Thai Police

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
		<ul style="list-style-type: none"> Diploma, National Defence College B.E.2554, Thailand National Defence College 			2009	Regular commander	Royal Thai Police
					2008	Commander of Chiang Rai Provincial Police	Royal Thai Police
12. Ms. Sadudta Navaskul VP-Finance & Accounting (6 November 2017)	40	<ul style="list-style-type: none"> Bachelor of Accounting, Faculty of Commerce and Accountancy, Thammasat University 	-	-	Nov. 2017 - Present	VP-Finance & Accounting	Absolute Clean Energy Public Company Limited
					July 2020 - Present	VP-Finance & Accounting	Advance Agro Asia Company Limited
					July 2020 - Present	VP-Finance & Accounting	Advance Asia Power Plant Company Limited
					July 2020 - Present	VP-Finance & Accounting	Advance Agro Power Plant Company Limited
					July 2020 - Present	VP-Finance & Accounting	Advance Bio Asia Company Limited
					July 2020 - Present	VP-Finance & Accounting	Advance Clean Power Company Limited
					July 2020 - Present	VP-Finance & Accounting	Alliance Clean Power Company Limited
					July 2020 - Present	VP-Finance & Accounting	ACE Solar Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
					July 2020 - Present	VP-Finance & Accounting	Power Supply and Maintenance Service Company Limited
					2005 - Oct. 2017	Manager, Senior Manager	EY Company Limited
13. Ms. Wannee Sukpiboonrat Accounting Manager (1 October 2017)	51	<ul style="list-style-type: none"> Bachelor of Arts (B.A.), Burapha University 	-	-	Oct. 2017 - Present	Accounting Manager	Absolute Clean Energy Public Company Limited
					July 2013 - Nov. 2015	Director	Advance Professional Training Company Limited
					Dec. 2012 - Mar. 2017	Director	Global Wood Chip Company Limited
					Mar. 2011 - Sep. 2017	Accounting Manager	Advance Agro Power Plant Company Limited
14. Mr. Chainat Buathong Company Secretary (15 September 2017) Legal & Regulatory Compliance Director (1 July 2020)	41	<ul style="list-style-type: none"> LLM. in Business Law, Faculty of Law, Chulalongkorn University Bachelor of Law (Laws), Chulalongkorn University Company Secretary Program CSP (85/2018), Thai Institute of Directors Effective Minutes Taking (EMT) (40/2018), Thai Institute of Directors 	-	-	Sep. 2017 - Present	Company Secretary	Absolute Clean Energy Public Company Limited
					Sep. 2017 - Present	Director of Legal and Compliance	Absolute Clean Energy Public Company Limited
					Sep. 2022 - Present	Director	Well Life and Living Co., Ltd.
					Feb. - Aug. 2017	Legal Manager	Advance Asia Power Plant Company Limited

Name-Surname Positions Appointment Date	Age (years)	Education Trainings and Seminar	Shareholding Ratio in the Company (%) (31 Dec 2022)	Family Relationship with Director and Executive	Work Experience		
					Period	Position	Company's Name
		<ul style="list-style-type: none"> Thai barrister-at-law Certification (65/2012), Institute of Legal Education of the Thai Bar 			Jan. 2017	Legal Manager	Asia Clean Energy Company Limited
					Apr. 2015 - Dec. 2016	Legal Manager	Advance Agro Asia Company Limited
					Jun. 2015 - Sep. 2016	Director	Advance Energy Development Company Limited
					Sep. 2010 - Sep. 2016	Director	Goodwill Innovation and Engineering Company Limited
					Mar. 2015	Legal Manager	Global Woodship Trading Company Limited
					2010 - Feb. 2015	Legal Manager	Chaiyo AA Company Limited

Details regarding the Company Director, Executives and Director with Authorization of the Songmetta Group in other companies

Company / Director / Executive	Work Experience			
	Miss Jiratha Songmetta	Mr. Teerawut Songmetta	Mr. Pornmett Songmetta	Mr. Tanavijit Ankapipatchai
1. Asia Clean Industrial Park Estate Company Limited	A (Jun. 2020 - Present) A (Oct. 2014 - Nov. 2018)		A (June 2016 - Sep. 2018)	A (Aug. 2009 - Mar. 2018)
2. Best Publishing Company Limited	A (Dec. 2014 - Present)			
3. Triple A Board Company Limited	A (May 2015 - Aug. 2018)		A (Oct. 2016 - Present)	
4. Advance Asian Company Limited	A (July 2014 - Feb. 2018)			
5. Eco Green Tree Company Limited	A (July 2014 - Feb. 2018)			
6. Advance Agro Energy Company Limited	A (Jun. 2012 - Jan. 2018)			
7. Alright Alliance Company Limited	A (Nov. 2014 - Jan. 2018)		A (Jan. 2018 - Present)	
8. Golden Success Capital Company Limited	A (Oct. 2014 - Jan. 2018)			
9. Songmetta Corporation Company Limited	A (Sep. 2016 - Feb. 2018)	A (Sep. 2016 - Present)	A (Feb. 2018 - Present)	A (Sep. 2016 - Mar. 2018)
10. Shaiyo AA International Holding Company Limited	A (May 2022 - Present)	A (May 2022 - Present) A (Oct. 2015 - Apr. 2020)		A (May 2022 - Present)
11. SM Capital Company Limited (Liquidated)	A (Nov. 2011 - Feb. 2018)	A (Aug. 2016 - Mar. 2018)	A (Aug. 2016 - Arp. 2019)	A (Aug. 2016 - Mar. 2018)
12. Good Will Architect and Construction Company Limited	A (Oct. 2010 - Dec. 2016)			
13. Advance Bio Technology Company Limited (Former: Chokchai Smile City Company Limited)	A (May 2015 - Oct. 2015)			
14. Advance Asia Industrial Park Company Limited	A (Mar. 2010 - Nov. 2013)		A (Apr. 2016 - Mar. 2018)	A (Mar. 2010 - Nov. 2013)
15. Cha-Am Beach Hotel Company Limited	A (Jan. 2009 - Feb. 2014)		A (Jun. 2016 - Present)	
16. Advance Asia Fiber Company Limited	A (Jan. 2014 - Apr. 2015)		A (July 2015 - Mar. 2018)	A (Jan. 2014 - Mar. 2018)
17. ABC Group Company Limited	A (May 2015 - Dec. 2017)	A (May 2015 - Present)		
18. AED Development Company Limited	A (May 2015 - Dec. 2017)	A (May 2015 - Present)		
19. Shaiyo Smile Company Limited	A (Aug. 2013 - Dec. 2017)		A (Mar. 2018 - Sep. 2021)	
20. Triple A Station Company Limited	A (Dec. 2011 - Dec. 2017)			A (Dec. 2011 - Mar. 2018)

Company / Director / Executive	Work Experience			
	Miss Jiratha Songmetta	Mr. Teerawut Songmetta	Mr. Pornmett Songmetta	Mr. Tanavijit Ankapipatchai
21. ABC Energy Company Limited		A (Dec. 2019 - Present)	A (Jun 2012 - Present)	
22. Shaiyo Triple A Company Limited		A (July 2012 - Present)	A (July 2012 - Present)	
23. Triple A Solar Energy Company Limited		A (Nov. 2016 - Present)	A (Mar. 2013 - Present)	
24. Triple A Solar Engineering Company Limited		A (Feb. 2015 - Present)	A (Feb. 2015 –Present)	
25. Triple A Solar Technology Company Limited		A (Feb. 2015 - Present)	A (Feb. 2015 –Present)	
26. Triple A Green City Company Limited		A (Feb. 2015 - Present)	A (Feb. 2015 –Present)	
27. Triple A Green Energy Company Limited		A (Mar. 2015 - Present)	A (Mar. 2015 - Present)	
28. AAA Green City Company Limited		A (Mar. 2015 - Present)	A (Mar. 2015 - Present)	
29. AAA Green Energy Company Limited		A (Mar. 2015 - Present)	A (Mar. 2015 - Present)	
30. Triple A Clean Energy Company Limited		A (Mar. 2015 - Present)	A (Mar. 2015 - Present)	
31. AAA Clean City Company Limited		A (Mar. 2015 - Present)	A (Mar. 2015 - Present)	
32. AAA Clean Energy Company Limited		A (Mar. 2015 - Present)	A (Mar. 2015 - Present)	
33. Ai and Robotics Company Limited		A (Mar. 2015 - Present)	A (Mar. 2015 - Present)	
34. Worldwide Intellegent Network Company Limited (Former: Smile City Co., Ltd.)		A (Feb. 2015 - Jun 2021)	A (Feb. 2015 - July 2015)	
35. Samui Smile City Company Limited		A (Mar. 2015 - Present)	A (Mar. 2015 - Present)	
36. KlongSam Smile City Company Limited		A (Feb. 2015 - Present)	A (Feb. 2015 - July 2015)	
37. Advance Carbon Security Venture Company Limited		A (Aug. 2011 - Present)	A (Dec. 2019 - Present)	
38. Smile Community Company Limited		A (Mar. 2018 - Present) A (Mar. 2015 - Oct. 2015)	A (Mar. 2018 - Present) A (Mar. 2015 - Oct. 2015)	
39. Radius Company Limited		A (Jan. 2015 - Present)		
40. The Paint Bar Company Limited		A (Sep. 2014 - Present)		
41. Energy Saving Corporation Company Limited		A (Mar. 2016 - June 2018)	A (Mar. 2016 - June 2018)	
42. SM Farm Tree Company Limited			A (Oct. 2012 - Present)	

Company / Director / Executive	Work Experience			
	Miss Jiratha Songmetta	Mr. Teerawut Songmetta	Mr. Pornmett Songmetta	Mr. Tanavijit Ankapipatchai
43. Agro Energy Supply Company Limited (Former: Global Positioning and Information Services Co., Ltd.)			A (Aug. 2016 - Apr. 2020)	
44. Ubon Smile City company Limited		A (Nov. 2021 - Present)	A (Apr. 2013 - Present)	
45. Triple A Industrial Park Company Limited			A (Mar. 2018 - Present)	
46. Nham Klong Luang Company Limited			A (Dec. 2019 –Present)	
47. Aisa Digital Network Company Limited (Former Name: Asia Marine Stevedoring Co. Ltd.)			A (Dec. 2019 - Jun 2021)	
48. AED Service Company Limited			A (Mar. 2013 –Sep. 2014)	
49. 304 I Town 1 Company Limited			A (May 2016 - Mar. 2018)	A (Nov. 2010 - Nov. 2013)
50. Sri Benchalak Company Limited				A (June 2011 - Present)
51. Shaiyo Supply Chain Company Limited				A (June 2009 - Present)
52. Inter Care and Service Company Limited				A (May 2540 - Present)
53. Global Shipping and Agency Company Limited				A (Aug. 2011 - Mar. 2018)
54. Clean Bio Fuel Company Limited				A (Feb. 2010 - Mar. 2018)
55. Triple A Water Supply Company Limited				A (Feb. 2013 - Mar. 2018)
56. Global Wood Chip Company Limited				A (Sep. 2009 - Feb. 2018)
57. Rice for Health Company Limited				A (Sep. 2011 - Mar. 2018)
58. Shaiyo Motors Company Limited				A (Oct. 2010 - Mar. 2018)
59. Boonbundarn Rungrueng Company Limited				A (Jan. 2008 - Mar. 2018)
60. Advance Professional Training Company Limited				A (Feb. 2012 - Nov. 2015)
61. Chonburi Smile City Company Limited		A (Nov. 2021 - Present)		
62. Smart Community Company Limited		A (Nov. 2021 - Present)		
63. Chaiyo Biofuel Co., Ltd. (Former Name: Smart Community Co., Ltd.)		A (Nov. 2021 - Jun. 2022)		
64. Advance Power Plant Company Limited				A (Feb. 2017 - Present)
65. Advance Alliance Logistics Company Limited				A (Mar. 2022 - Present)

Company / Director / Executive	Work Experience			
	Miss Jiratha Songmetta	Mr. Teerawut Songmetta	Mr. Pornmett Songmetta	Mr. Tanavijit Ankapipatchai
66. M.A.N. Company General Company Limited		A (July 2020 - Present)		
67. JTS Forestry Company Limited		A (Mar. 2022 - Present)	A (Mar. 2022 - Present)	
68. JTS EPC Solution Company Limited			A (Mar. 2022 - Present)	
69. SM Agri Innovation Company Limited		A (Mar. 2022 - Present)	A (Mar. 2022 - Present)	

Remark A = Director B = Executive

Attachment 2: Details of Directors of Subsidiaries

Directors/Executives	ASCE	1	2	2.1	2.2	3	4	5	6	7	8	9	10	11	12	13	14	15	15.1	15.2	15.3	15.4	15.5	16	16.1	16.2	16.3	16.4	16.5	17	17.1	17.2	18	18.1	18.2	18.3	18.4	19	19.1	19.2
1. Miss Jiratha Songmetta	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H						H						H			H					H		
2. Mr. Teerawut Songmetta	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3. Mr. Pormett Songmetta	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
4. Mr. Tanavijit Ankapiatchai	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	H	H	H	H	H	/	H	H	H	H	H	/	H	H	/	H	H	H	H	/	H	H
5. Mr. Tanachai Buditvorapoom	/									/	/		/	/	/	/																								
6. Miss Pimpisa Sawangarrom	//	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7. Mr. Vinai Buapradit			/																																					
8. Mr. Somsak Boonprasertnont					/																																			
9. Mr. Chakaphun Sunkudom		//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//																							
10. Mr.Thammanoon Sathongprom		//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	
11. Ms. Sadudta Navaskul	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
12. Mr. Chainat Buathong	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
13. Mr. Yuthana Viriyakit					/																																			
14. Mr. Umporn Sangsukdee													//			/																								
15. Miss Nicole Tan Peck Shu													//																											

ASCE = Asia Clean Energy Co., Ltd.

1 = ACP

2 = ALCP

2.1 = NCE

2.2 = ABP

3 = AAPP

4 = AAP

5 = ABA

6 = AFT

7 = BPP

8 = ACE SOLAR

9 = ACW

10 = AAA

11 = AAE

12 = ABE

13 = ACES

14 = PSMS

15 = PRE

15.1 = KTNP

15.2 = KTDP

15.3 = KTHP

15.4 = RBNP

15.5 = CBRP

16 = REC

16.1 = KTRC

16.2 = TRRP

16.3 = WLCPP

16.4 = KACPP

16.5 = KHLCP

17 = REN

17.1 = BURC

17.2 = KAMD

18 = RENE

18.1 = TDPP

18.2 = NHCP

18.3 = TKNP

18.4 = TCPP

19 = RESM

19.1 = KTRP

19.2 = KRKKC

Attachment 3: Details of Head of Internal Audit

Details of Head of Internal Audit

The Group of Companies has assigned P&L Internal Audit Company Limited, to audit the Company's internal control system and subsidiary, the head of the internal audit team has qualifications, educational qualifications and work experience as follows:

Name	Age	Education / Relevant Trainings	Work Experience (5 years)			
			Period	Company	Position	Business
Ms. Wanwimol Jongsuriyapas	38	<ul style="list-style-type: none"> Bachelor's Degree in accountancy 2006, Dhurakij Pundit University Master Degree in Executive MBA 2020, NIDA University Internal Auditing Certificate Program – IACP by the Federation of Accounting Professions (2017) CPIAT by The Institute of Internal Auditors of Thailand (IIAT), by Chulalongkorn University (2016) Prepared Course for Certified Internal Auditor: Pre-CIA by Chulalongkorn University (2008) Business Management for Internal Audit in Digital 4.0 by the Federation of Accounting Professions (2017) Clinic IA: COSO 2014 by The Institute of Internal Auditors of Thailand (2014) 	2013 - Present	P & L Internal Audit Company Limited	Executive Director	Vice President Operations / Internal Audit Business
			2006 - Present	P & L Internal Audit Company Limited	Vice President Operations	Vice President Operations / Internal Audit Business

Attachment 4: Business Assets and Details on Asset Valuation

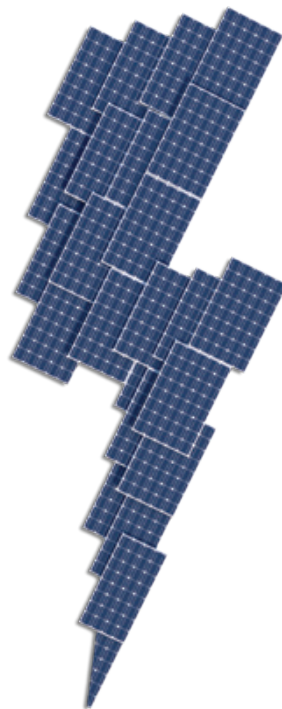
1. Business Assets

The Company has explained the main fixed assets, the Company and subsidiaries are disclosed in the section Business Assets

2. Detail on Asset Valuation

-None-





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