

Absolute Clean Energy Public Company Limited

Analyst Meeting: Q2'2022 Results

Ticker: ACE

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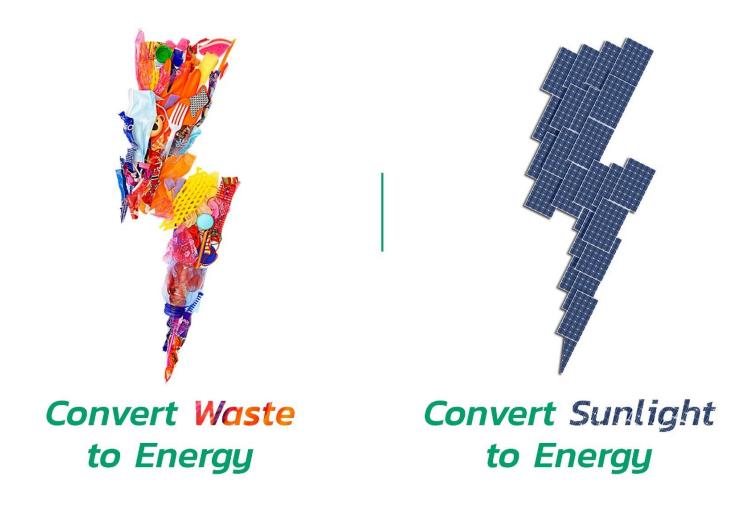






ACE The clean energy leader





ACE The clean energy leader



Key Events

- On 11th May 2022, the Company made dividend payment of 2021 at the rate of THB 0.02 per share, totaling THB 203.5 million.
- On 15th June 2022, 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.







Overview of ACE's Portfolio



ACE Business Portfolio in Thailand : June 2022

Power Plant

Power Type

Existing
+ Pipeline
Projects

Capacity MW (Total Capacity MW)

PPA MW to Government & IU (Total PPA MW)



Others



ACE

ABSOLUTE CLEAN ENERGY

ABSOLUTE COMPANY EINITED

Waste Landfill

COD: 23 Pipeline: 34/1 Total: 57/1

> COD: 257.57 Pipeline: 270.80

Total: 528.37

COD: 206.72 Pipeline: 222.31

Total: 429.03

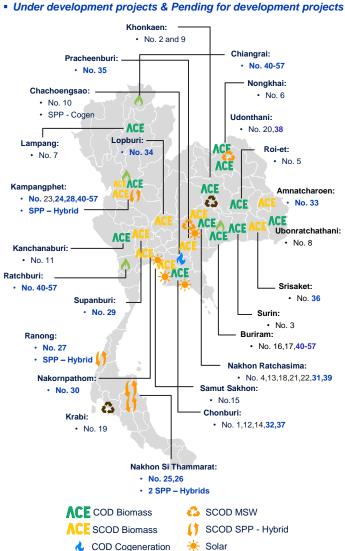
Well-Balanced Portfolio with Diversified Locations



Assets Overview







		Туре	Installed / Equity MW	PPA MW	Location	COD / SCOD Date	Status
	1	VSPP - Biomass	9.9	8	Chonburi	24/4/2012	
	2	VSPP - Biomass	9.9	8	Khonkaen	2/5/2012	
	3	VSPP - Biomass	9.9	8	Surin	30/10/2012	
	4	VSPP - Biomass	9.9	8	Nakhon Ratchasima	16/1/2013	
	5	VSPP - Biomass	9.9	8	Roi-et	4/6/2013	
	6	VSPP - Biomass	9.9	8	Nongkhai	26/12/2013	
	7	VSPP - Biomass	9.9	8	Lampang	9/7/2014	
	8	VSPP - Biomass	9.9	8	Ubonratchathani	14/8/2015	
	9	VSPP - MSW	6	4.5	Khonkaen	29/11/2016	
	10	SPP - Cogen	114.35	90	Chachoengsao	10/2/2017	
Existing	11	VSPP - Biomass	9.9	8	Kanchanaburi	16/8/2017	
Projects	12	VSPP - Solar Rooftop	1	1	Chonburi	20/11/2018	COD
(23 Projects)	13	VSPP - Solar Rooftop	0.73	0.73	Nakhon Ratchasima	22/2/2019	
	14	1 Solar Rooftop	1	1	Chonburi	27/9/2019	
	15	1 Solar Rooftop	0.83	0.83	Samut Sakhon	22/5/2020	
	16	VSPP - Biomass	7.5	6.5	Buriram (ACES)	24/1/2006	
	17	VSPP - Biomass	9.5	8	Buriram (ABE)	6/2/2008	
	18	VSPP - Biomass	9.9	8	Nakhon Ratchasima (AAE)	10/11/2011	
	19	VSPP - MSW	6	4.4	Krabi	28/12/2020	
	20	Waste Landfill	N/A	N/A	Udonthani	5/1/2021	
	21	1 Solar Rooftop	0.24	0.24	Nakhon Ratchasima	25/2/2021	
	22	Floating Solar	1.515	1.515	Nakhon Ratchasima	31/3/2021	
	23	VSPP - Biomass	9.9	8	Kampangphet	26/11/2021	
	24	1 SPP - Hybrid	20	13.31	Kampangphet	Within 2023	PPA signed
	25,26	2 SPP - Hybrids	50	43	Nakhon Si Thammarat	TBD	PPA signed
	27	1 SPP - Hybrid	23	20	Ranong	TBD	EIA Approved
	28	VSPP - Biomass	9.9	8	Kampangphet	Within 2024	
	29	VSPP - Biomass	9.9	8	Supanburi	Within 2024	
	30	VSPP - Biomass	9.9	8	Nakornpathom	Within 2024	
Under Development	31	VSPP - Biomass	9.9	8	Nakhon Ratchasima	Within 2024	PPA to be signed
and pending	32	VSPP - Biomass	9.9	8	Chonburi	Within 2024	1177 to be signed
for	33	VSPP - Biomass	9.9	8	Amnatcharoen	Within 2024	
development	34	VSPP - Biomass	9.9	8	Lopburi	Within 2024	
(34 projects)	35	VSPP - Biomass	9.9	8	Pracheenburi	Within 2024	
	36	VSPP - Biomass	9.9	8	Srisaket	Within 2024	Under consideration of Administrative Court
	37	VSPP - Biomass ^{/1}	9.9	8	Chonburi	Within 2024	PPA to be signed
	38	VSPP - MSW	9.9	8	Udonthani	Within 2023	PPA to be signed
	39	VSPP - MSW	9.9	8	Nakhon Ratchasima	Within 2023	PPA to be signed
	40-57	VSPP - Biogas	59	50	Chiangrai / Kampaengphet / Buriram / Ratchburi	2023 - 2024	PPA to be signed
Total	57		528.37	429.03			

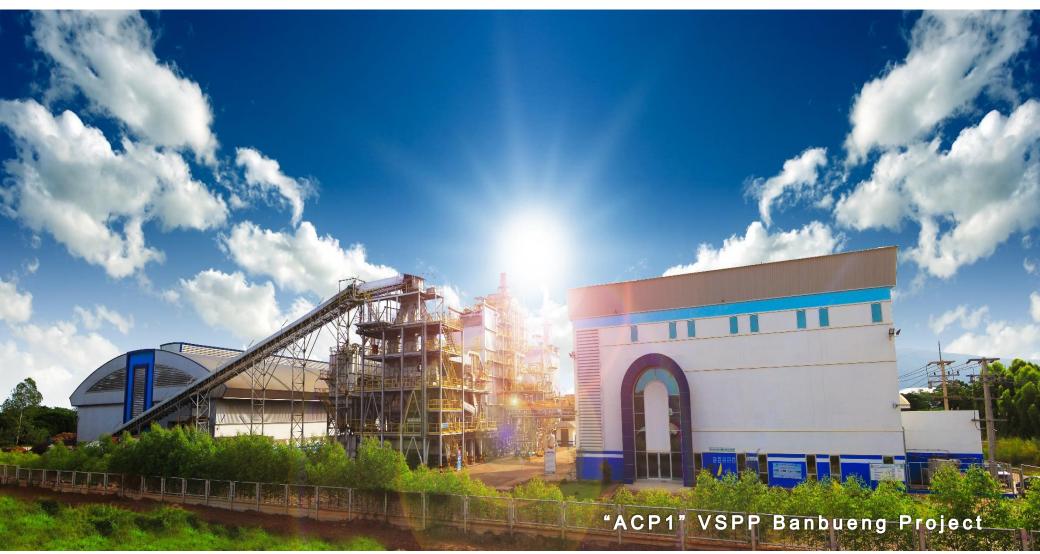
Source: Company information as of June 2022

COD MSW

SCOD Biogas



ACE Operating Performance



ACE's Biomass power plant (27 power plants, 317.9 MW)/1,/2,/3





ACP1 Ban Bueng



ALCP1 Si Chiang Mai



AAPP2 Chokchai



ACP2 Phonthong



ALCP2 Sirindhorn



AAP1 Nam Phong

■ COD 13 power plants = 125.9 MW

Remark: /1 Including APP's capacity MW of 9.9, Currently, APP's shareholders sent LOI for APP share purchase proposal to ACE /2 Capacity MW

Under development 14 power plants = 192.0 MW

ACE's Biomass power plant (27 power plants, 317.9 MW)/1/2/3





ACP3 Bo Ploy



AAPP1 Tanee



ABA1 Thoen



AAE Muang Korat



ABE Don Mon



ACES Muang Burirum

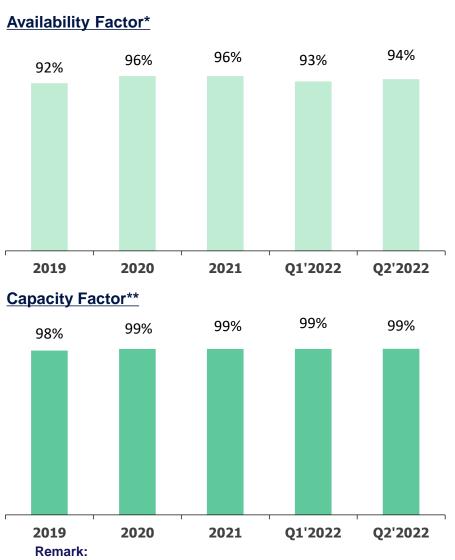


ACP4 Khlong Khlung

ACE's Biomass Operating Performance (10 Projects)



Plant Performance (10 Projects)



Gross Profit and Margin



Key Observation

- Gross Profit and Gross Profit Margin
 - QoQ : -2.4% in Gross Profit and -1.7% in Gross Profit Margin
 - YoY: +4.6% in Gross Profit and -2.0% in Gross Profit Margin
- Gross Profit decreased QoQ, due to the slightly increased of feedstock cost from Q1'2022.
- Gross Profit increased YoY, mainly from the COD of Khlong Khlung Power Plant Project on 26 November 2021.

** Capacity Factor = Electricity Unit sold /(Total operating hours*Total selling Capacity)

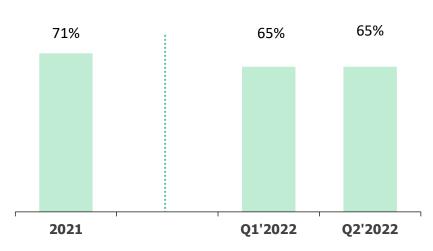
^{*} Availability Factor = Total operating hours/(Days*24 hours)

ACE's Biomass Operating Performance (3 Acquisitioned Projects)

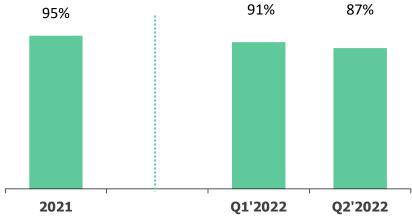


Plant Performance (3 Acquisitioned Projects)

Availability Factor*



Capacity Factor**

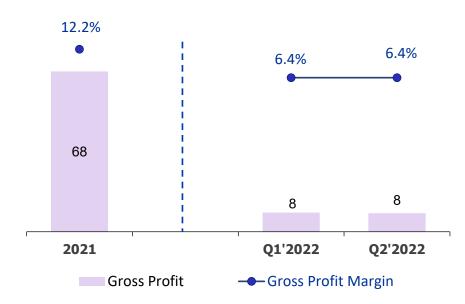


Remark:

** Capacity Factor = Electricity Unit sold /(Total operating hours*Total selling Capacity)

Gross Profit and Margin





Key Observation

- 3 Biomass projects have been transferred to ACE since 21 Aug 2020.
- ACES and ABE recommenced its operation on 15 Dec 2020 and 27 Dec 2020, respectively.
- Q2'2022: Gross Profit was THB 8 mln and Gross Profit Margin was 6.4%, the same level compared to the previous quarter

^{*} Availability Factor = Total operating hours/(Days*24 hours)

ACE's MSW Power Plants





MSW Khon Kaen



■ COD 2 power plants = 12 MW

■ Under development 2 power plants = 19.8 MW

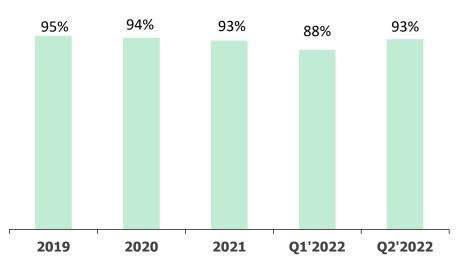
MSW Krabi

ACE's MSW Operating Performance

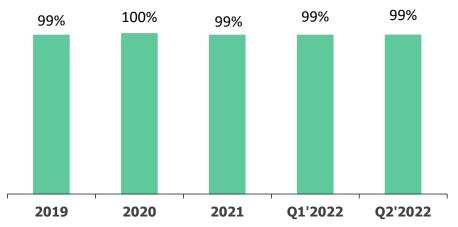




Availability Factor

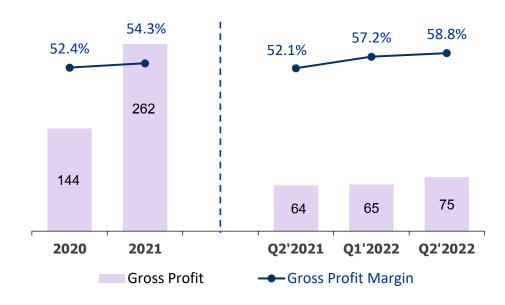


Capacity Factor



Gross Profit and Margin

Unit: THB mln



Key Observation

- · Quarterly Gross Profit and Gross Profit Margin
 - QoQ: +15.3% in Gross Profit and +1.6% in Gross Profit Margin
 - YoY: +17.9% in Gross Profit and +6.7% in Gross Profit Margin
- Gross Profit in Q2'22 increased QoQ, mainly from the lower plannedshutdown hours than the previous quarter.

ACE's Co-generation Power Plant







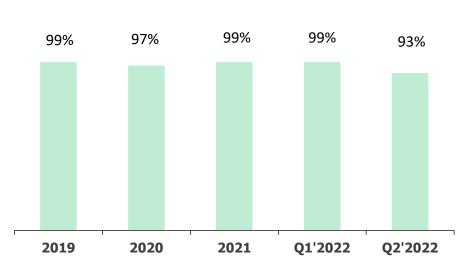
AAA Chachoengsao

ACE's Co-Gen Operating Performance

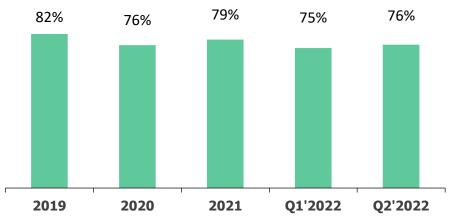


Plant Performance (1 Project)

Availability Factor

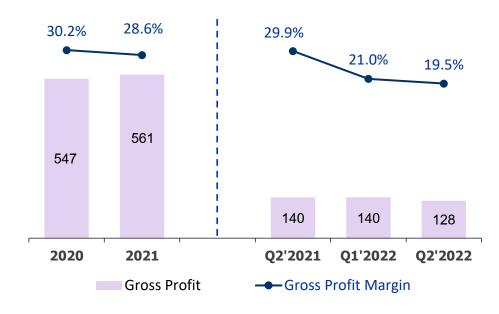


Capacity Factor



Gross Profit and Margin

Unit: THB mln

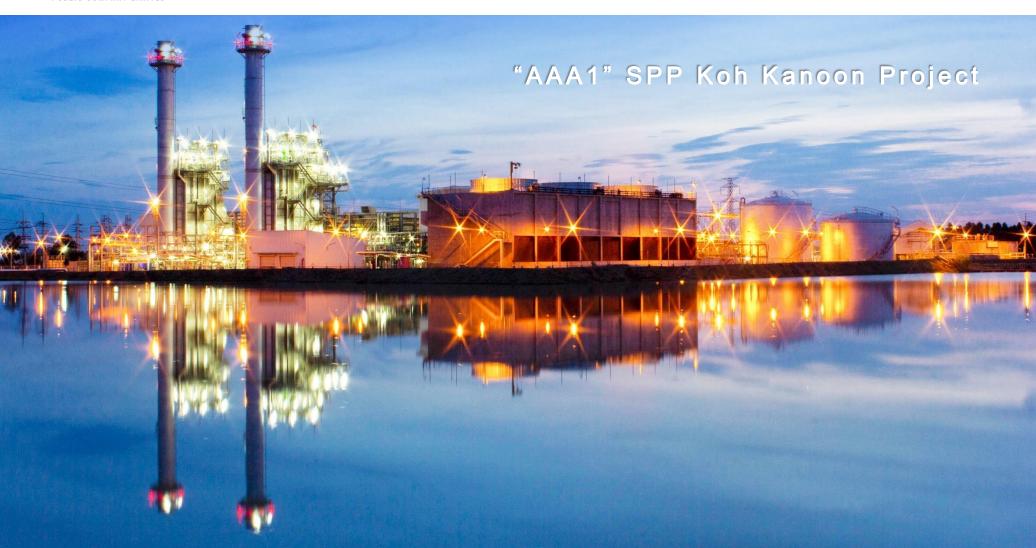


Key Observation

- Quarterly Gross Profit and Gross Profit Margin
 - QoQ: -8.6% in Gross Profit and -1.5% in Gross Profit Margin
 - YoY: -8.1% in Gross Profit and -10.4% in Gross Profit Margin
- The gross profit in Q2'2022 decreased as the result of maintenance shutdown in Q2'2022
- Average Gas Price in Q2'2022 slightly decreased from Q1'2022 (-4.3% QoQ)



ACE Financial Highlights

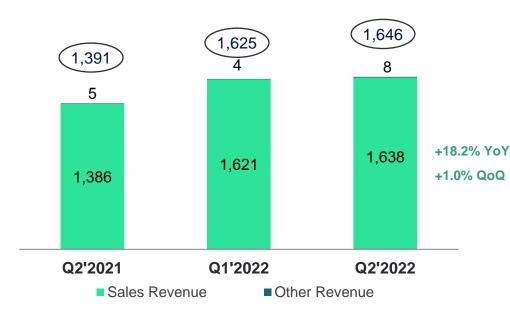


Q2'2022 Financial Highlight P&L



Revenue^{/1}

Unit: THB mln

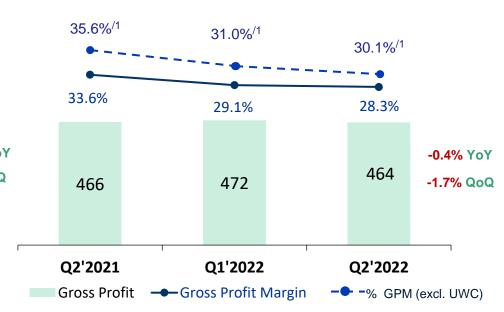


Sale Revenue in Q2'22 was THB 1,638 mln

- QoQ: +1.0% mainly from the increase of Biomass and MSW power plant revenues from the lower planned-shutdown hours in the second quarter of 2022
- YoY: +18.2% results from:
 - The recognition of new biomass power plant in Khlong Khlung (COD 26 Nov 2021)
 - > The increase of Co-Gen power plant revenue from an increase in unit rate which was adjusted in line with the average gas price

Gross Profit and Margin

Unit: THB mln



Gross Profit in Q2'22 was THB 464 mln

- QoQ: -1.7% from GP of Biomass decreased by THB 5.9 mln GP of MSW increased by THB 10.0 mln GP of Co-Gen decreased by THB 12.0 mln
- YoY: -0.4% from GP of Biomass decreased by THB 2.0 mln GP of MSW increased by THB 11.4 mln GP of Co-Gen decreased by THB 11.3 mln

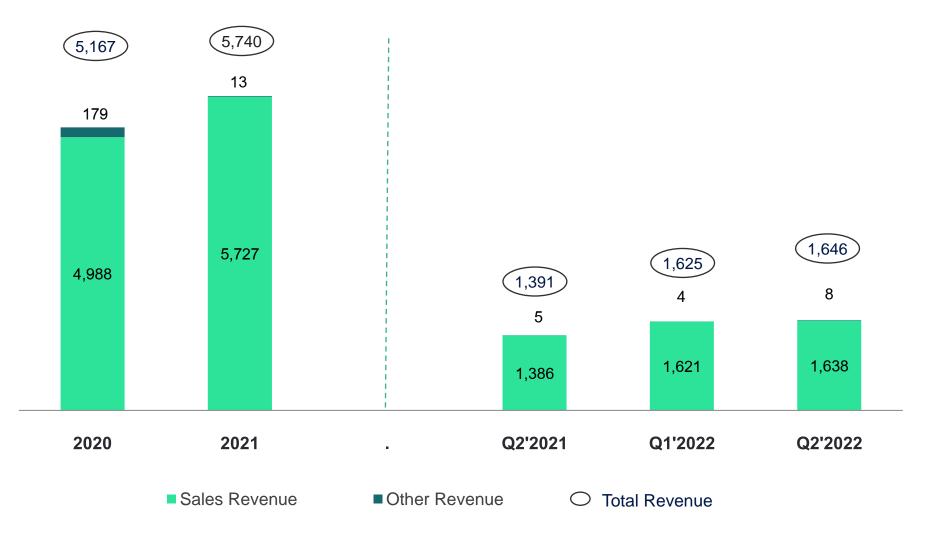
Gross Profit Margin in Q2'22 was 28.3%

- QoQ: -0.8% mainly from the result of natural gas power plant maintenance shutdown in the second quarter of 2022
- YoY: -5.3% mainly from
 - > the expiration of FiT Premium period of two biomass power plants
 - the average gas price increased which had impact to the gross profit margin but not affected to the absolute gross profit

Financial Highlight – Revenue^{/1}



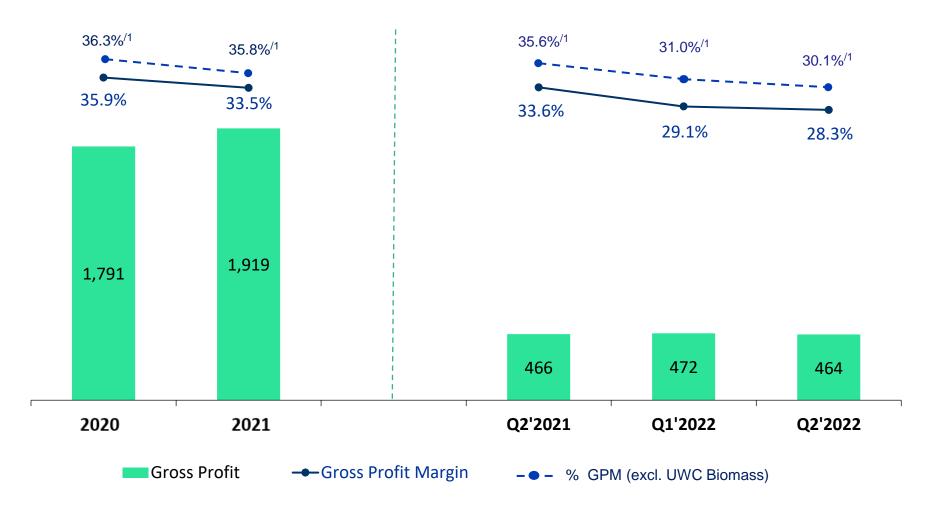
Unit: THB mln



Financial Highlight – Gross Profit and Gross Profit Margin



Unit: THB mln

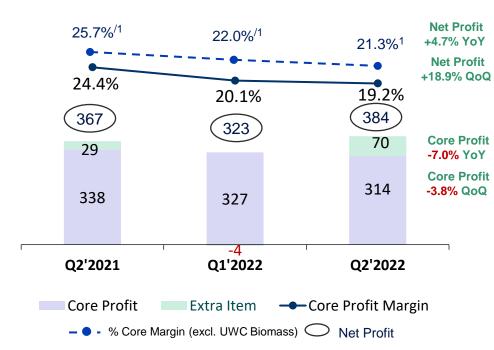


Q2'2022 Financial Highlight P&L



Core Profit / Net Profit

Unit: THB mln



Core Profit in Q2'22 was THB 314 mln

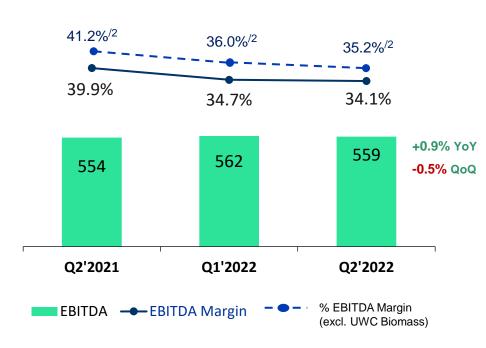
- QoQ: -3.8% mainly from the result of natural gas power plant maintenance shutdown and higher SG&A expenses from employee expenses and preoperation expenses as the result from the expansion and new project development
- YoY: -7.0% results from the expiration of FiT Premium period of two biomass power plants and the increase of SG&A expenses

Net Profit in Q2'22 was THB 384 mln

• +18.9% QoQ and +4.7% YoY: mainly from the gain of extra items (FX Gain)

EBITDA and EBITDA Margin

Unit: THB mln



EBITDA in Q2'22 was THB 559 mln

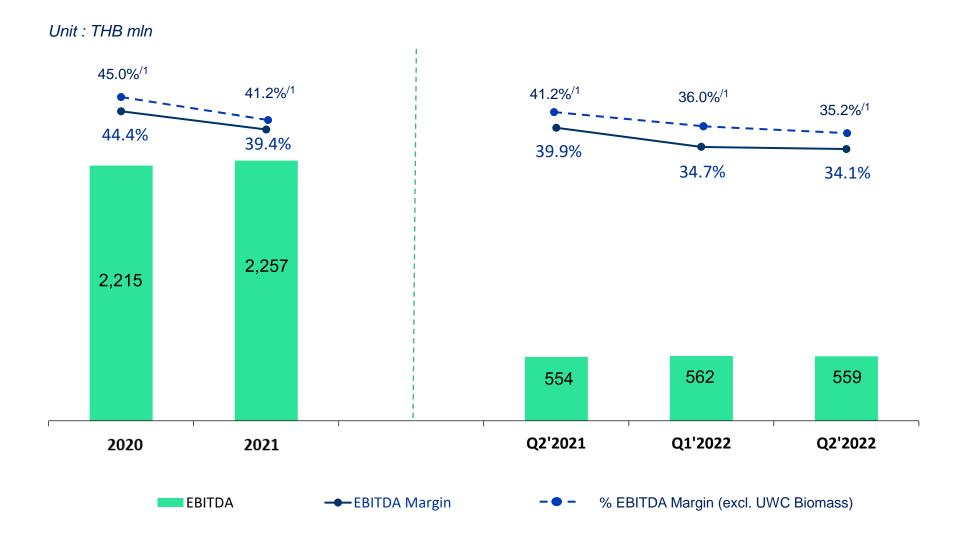
- QoQ: -0.5% mainly from the natural gas power plant maintenance shutdown and higher of SG&A expenses
- YoY: +0.9% mainly from the COD of Khlong Khlung Power Plant Project on 26 November 2021.

Remark: 1/ Exclude Core Margin from 3 UWC Biomass Power Plants .

2/ Exclude EBITDA from 3 UWC Biomass Power Plants.

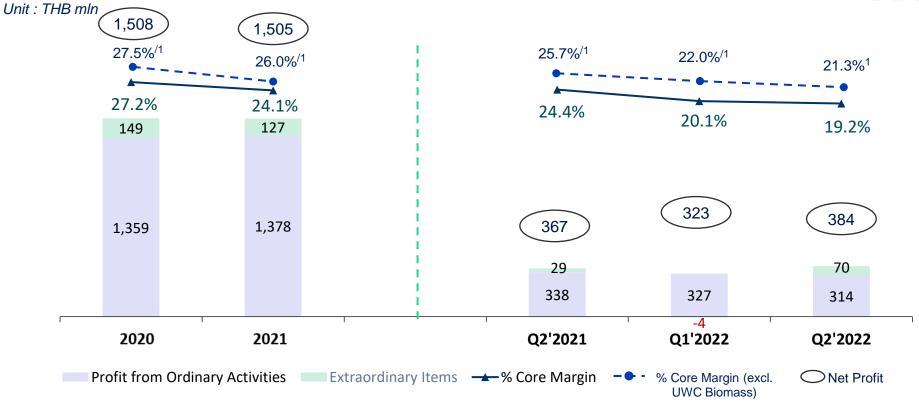
Financial Highlight – EBITDA





Financial Highlight – Net Profit / Core Profit / Core Profit Margin





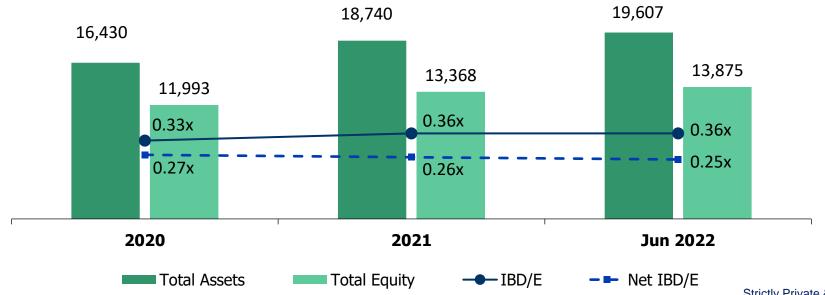
	Q2-2021			Q1-2022			Q2-2022		
	Ordinary activities	Extraordinary items	Total	Ordinary activities	Extraordinary items	Total	Ordinary activities	Extraordinary items	Total
Profit before tax (EBT)	353	36	389	350	(5)	345	347	87	434
Tax income (expense)	(15)	(7)	(22)	(23)	1	(22)	(33)	(17)	(50)
Net profit	338	29	367	327	(4)	323	314	70	384

ACE Capital Structure and Leverage Ratio



Unit: THB mln		As of			
	Dec 2020	Dec 2021	Jun 2022		
Total Assets	16,430	18,740	19,607		
Total interest-bearing debt	3,948	4,780	5,025		
Cash equivalent and restricted cash	760	1,326	1,489		
Net Interest-bearing debt	3,188	3,454	3,536		
Equity	11,993	13,368	13,875		





ACE's 3 Core Value Represent Competitive Advantage to Secure New PPAs



R&D

- ✓ Fast growing and high yield fuel crops and fuel trees
- √ New Biomass Fuel Types
- ✓ Machineries and improved design

Operational Expertise & Economy of Scale

- ✓ Proven track record in building and running a lot of successful powerplants projects
- ✓ Continuous operational improvements
- Economy of scale
- Strong feedstock purchasing team
- √ Large and efficient logistic and supply chain networks (over 40 years in the making)

Advance Technology

Key

Competitive Advantages to secure 1000 **Operational Expertise** and Sustainability **Economy of**

R&D Innovation

and continuous

Improvement

Scale

Strong Relationship with Key Stakeholders

Knowhow

Sustainability

- Feedstock security
- Financial security
- ✓ Community support

Advance Technology

- ✓ Lower plant heat rate = decrease fuel consumption by up to 30%
- ✓ Artificial Intelligence, IoTs and Big data for cost control and operations improvement
- ✓ Environmentally friendly

Knowhow

- Low O&M cost
- Strong & capable team of professionals ready to handle new projects

Relationship with Key Stakeholder

- √ Major shareholders' plantation business can support long-term feedstock development plan
- ✓ Strong & long-term relationship with communities and farmers
- ✓ Strong relationship with lender

Strictly Private & Confidential

ACE's Key Strengths and Opportunities



Thailand's Leading Integrated Power Producer with Highest Growth Potential

- Largest and fast-growing Biomass Power Producer supported by PPA with PEA in Thailand
- No. 1 Renewable Power Producer in Thailand in terms of Equity MW Growth

World Megatrend

- "Electrification" Era
- Global & Thailand Commitment to Zero Carbon which implies the rise of renewable energy
- Biomass is one of the most reliable renewable energy that can replace the base load provided by conventional energy.
- ESG Business

Continuous Growth from Projects in the Pipeline and Future

- Power Plant's PPA with exceptional tariff rate
- Better technology which leads to higher efficiency and less feedstock / kWh
- Economy of Scale resulting in lower CAPEX, OPEX, and SG&A
- 28% share in the latest biomass power plant bidding

Efficient Operational Capabilities with Continuous Improvement

- Lower Feedstock and O&M cost which leads to higher margin
- Stronger creditworthiness which leads to lower financing cost
- Peer-to-Peer Electricity Trading which leads to additional electricity sales

Low Downside Risk

- Secured Demand & Cashflow (Long term Power Purchase Agreement with the Government)
- Proven Operational Excellence & Feedstock Management
- Our business model commits to the greater good and has a positive Total Societal Impact (TSI)

5 Low

Strictly Private & Confidential

Total Societal Impact (TSI) and Environmental, Social & Governance (ESG)



Biomass Power Plant

Contribute to the Paris Agreement



Decreasing greenhouse gas emission.

Future Potential



To provide base-load to grid in place of conventional energy

Solves PM 2.5 problem at the root



- Saves government's spending on putting down forest fires and farm fires
- Saves government's spending on PM 2.5 related health problems such as respiratory complications, masks distributions and water spraying in cities, from PM 2.5 particle.
- Prevents economic loss from the decrease in tourism due to PM 2.5 problems.

Positive Economic and Societal Impact



- Additional income to farmers
- Stabilize income for farmers under market uncertainty → reduce empty subsidies that the government has to give out
- Distribution of revenue to grassroots: Shift from LNG imports to purchasing fuel from individual Thai farmers

GDP Contribution/1



THB 1.8 Billion / year / 9.9 MW biomass power plant

Municipal Solid Waste (MSW) Power Plant

Contribute to the Paris Agreement



Decreasing greenhouse gas emission.

Future Potential



To provide base-load to grid in place of conventional energy

Solves MSW mountain problems



Save healthcare and environmental spending for the government from problems caused by MSW in landfills



Thank You

For further inquiry

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