

Absolute Clean Energy Public Company Limited

Opportunity Day: Q2'2023 Results

Ticker: ACE

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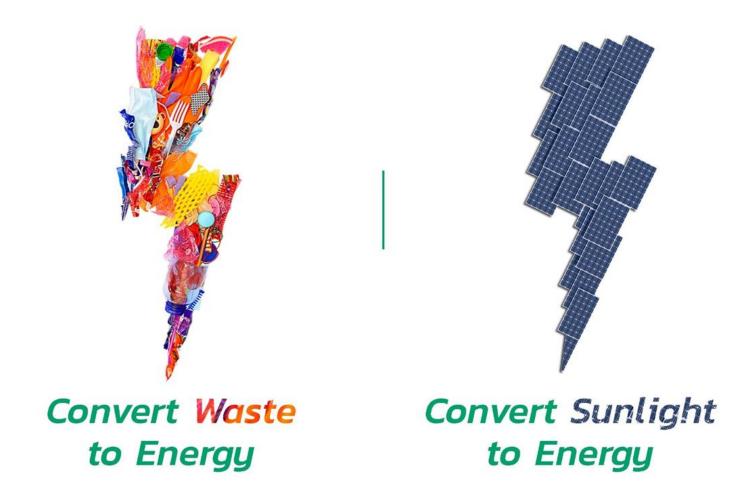




to Energy

ACE The clean energy leader





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Business Updates



Key Events (1 of 2)

- 5 April 2023: Won the government's bid to supply solar power to the grid in 18 different locations.
 - Power system: Solar (farm)
 - Total PPA capacity: 112.73 MW
- 28 April 2023: the 2023 AGM approved the suspension of dividend payments for the 2022 operating results because the company has to reserve cash for working capital and investments in upcoming projects
- 12 May 2023: Power Purchase Agreement (PPA) signed with the Provincial Electricity Authority (PEA) for 2 MSW power plants projects.
 - Chiangwang MSW power plant project:
 - Installed capacity: 9.0 MW / PPA capacity: 7.75 MW
 - Chokchai MSW power plant project:
 - Installed capacity: 9.9 MW / PPA capacity: 8.0 MW
 - Total installed capacity: 18.9 MW
 - Total PPA capacity: 15.75 MW

Business Updates



Key Events (2 of 2)

- **15 May 2023 5 June 2023**: Private Power Purchase Agreement (Private PPA) signed with private companies for 15 Solar Rooftop projects.
 - Power system: Solar (rooftop)
 - Total installed capacity: 2.846 MW
 - Total PPA capacity: 2.846 MW
- 2 August 2023: TRIS Ratings Affirmed the Company Rating at "BBB+" with "Stable" Outlook







Overview of ACE's Portfolio



ACE Business Portfolio in Thailand: June 2023

Power Plant



114.35

Total: 114.35

90.0





Solar



Biogas

0+18





Existing + Pipeline **Projects**

Power Type

Capacity MW (Total **Capacity MW)**

G



125.9

192.0/1

Total: 317.9/1





12.0

8.9

18.9

15.75

Total: 24.65

Total: 30.9







5.32

125.17

Total: 130.49











Total: 50.0

PPA MW to	1005
& IU Total PPA MW)	156.31/1



Total: 90.0

Existing

Under Development + Pending for Development

Waste Landfill

Others

1+0

COD: 23 Pipeline: 68/1

Total: 91/1

COD: 257.57 Pipeline: >395.07

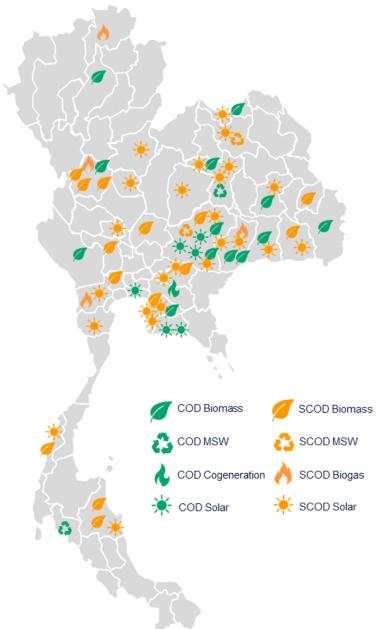
Total: >652.64

COD: 206.72 **Pipeline: 347.23**

553.95 Total:

Well-Balanced Portfolio with Diversified Locations





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Source	Company information as of June 2023	

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

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		Туре	Installed 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	
	31	VSPP - Biomass	9.9	8	Nakhon Ratchasima	Within 2024	PPA to be signed
	32	VSPP - Biomass	9.9	8	Chonburi	Within 2024	· ·
	33	VSPP - Biomass	9.9	8	Amnatcharoen	Within 2024	
	34	VSPP - Biomass	9.9	8	Lopburi	Within 2024	
	35	VSPP - Biomass	9.9	8	Pracheenburi	Within 2024	Halland Market
Under Development	36	VSPP - Biomass	9.9	8	Srisaket	Within 2024	Under consideration of Administrative Court
and pending	37	VSPP - Biomass ^{/1}	9.9	8	Chonburi	Within 2024	PPA to be signed
for development	38	VSPP - MSW	9.0	7.75	Udonthani	Within 2024	PPA signed
(68 projects)	39	VSPP - MSW	9.9	8	Nakhon Ratchasima	Within 2024	PPA signed
	40-57	VSPP - Biogas	59	50	Chiangrai / Kampaengphet / Buriram / Ratchburi	Within 2026	PPA signed
	58	Private PPA - Solar Rooftop	9.59	9.59	Phetchaburi	Whitin Q2'2024	PPA signed
	59-63	Solar Farm	>35.40	35.40	Nakhon Si Thammarat, Phitsanulok, Phichit, Khon	Within 2024	PPA to be signed
	64-73	Solar Farm	>57.33	57.33	Kaen, Nong Khai, Ranong,	Whitin 2025	PPA to be signed
	74-76	Solar Farm	>20.00	20.00	Ratchaburi, Sisaket, Chainat	Whitin 2027	PPA to be signed
	77-90	Private PPA - Solar Rooftop	1.92	1.92	Chonburi, Khon Kaen, Nakhon Ratchasima, Surin, Roi Ed, Udonthani, Chaiyaphum, Pracheenburi, Buriram	Q4'2023-Q1'2024	PPA signed
	91	Private PPA - Solar Rooftop	0.93	0.93	Chonburi	Within Q2'2024	PPA signed
Total	91		>652.64	553.95			



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

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

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

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

/3 Including UA Wittaya plc biomass power plants of 26.9 MW

Under development 14 power plants = 192.0 MW

COD 13 power plants = 125.9 MW

ACE's Biomass Operating Performance (10 Projects)



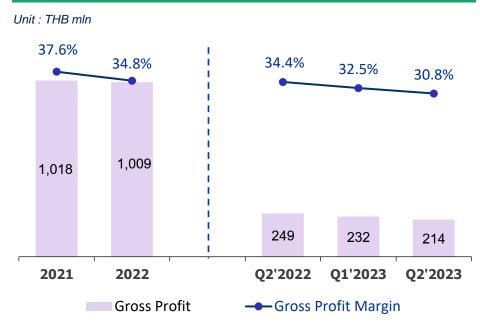
Plant Performance (10 Projects)



Remark:

- * Availability Factor = Total operating hours/(Days*24 hours)
- ** Capacity Factor = Electricity Unit sold /(Total operating hours*Total selling Capacity)

Gross Profit and Margin



Key Observation – Q2'2023

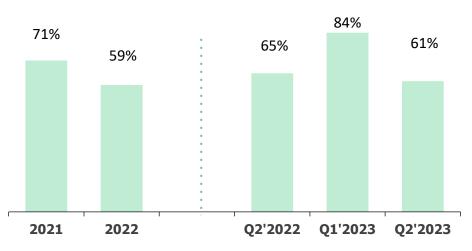
- Gross Profit and Gross Profit Margin
 - QoQ: -7.8% in Gross Profit and -1.7% in Gross Profit Margin
 - YoY: -14.1% in Gross Profit and -3.6% in Gross Profit Margin
- Gross Profit decreased QoQ, mainly from higher shutdown hours
- · Gross Profit decreased YoY, mainly from
 - Higher shutdown hours
 - Higher cost of feedstocks due to the inflation
 - The expiration of FiT Premium period of Thoen biomass power plant (8 Jul 2022)

ACE's Biomass Operating Performance (3 Acquisitioned Projects)



Plant Performance (3 Acquisitioned Projects)

Availability Factor*

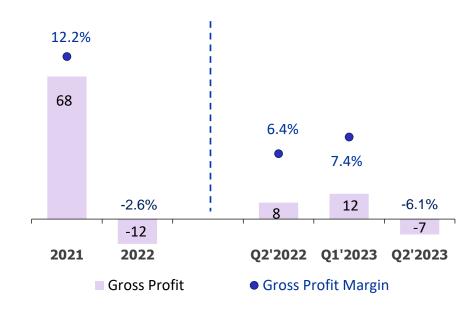


Capacity Factor**



Gross Profit and Margin





Key Observation – Q2'2023

 Q2'2023: Gross Profit and Gross Profit Margin decreased QoQ and YoY due to higher shutdown hours

Remark:

- * Availability Factor = Total operating hours/(Days*24 hours)
- ** Capacity Factor = Electricity Unit sold /(Total operating hours*Total selling Capacity)

ACE's MSW Power Plants





MSW Khon Kaen



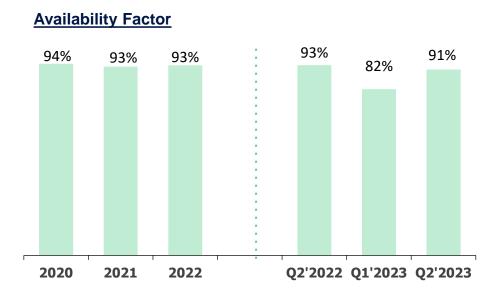
MSW Krabi

[■] COD 2 power plants = 12 MW

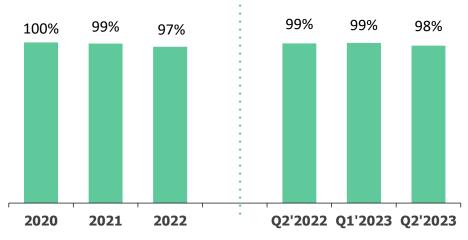
ACE's MSW Operating Performance



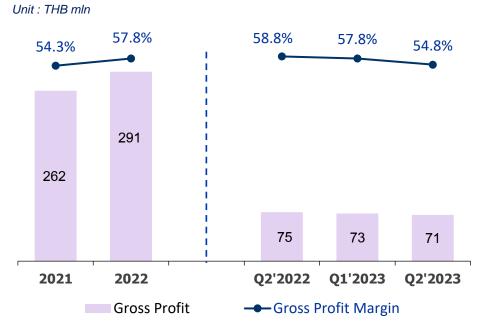
Plant Performance (2 Projects)



Capacity Factor



Gross Profit and Margin



Key Observation – Q2'2023

- Quarterly Gross Profit and Gross Profit Margin
 - QoQ: -2.7% in Gross Profit and -3.0% in Gross Profit Margin
 - YoY: -5.6% in Gross Profit and -4.0% in Gross Profit Margin
- Gross Profit
 - Decreased QoQ, mainly from shutdown of Khon Kaen MSW power plant, which has higher GPM from Adder Scheme
 - Decreased YoY, mainly from higher shutdown hours

ACE's Co-generation Power Plant







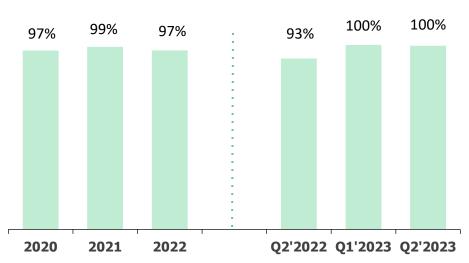
AAA Chachoengsao

ACE's Co-Gen Operating Performance

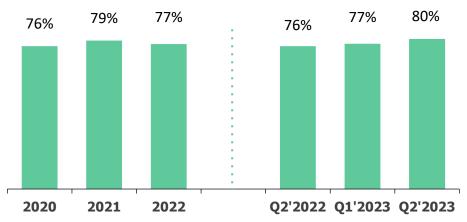


Plant Performance (1 Project)

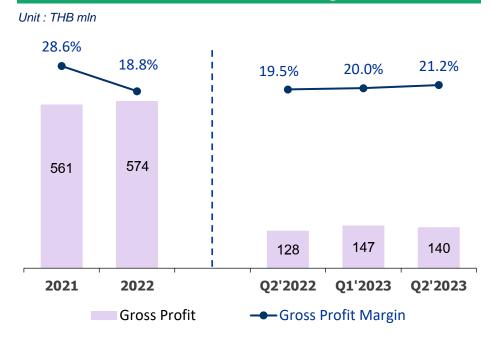
Availability Factor



Capacity Factor



Gross Profit and Margin

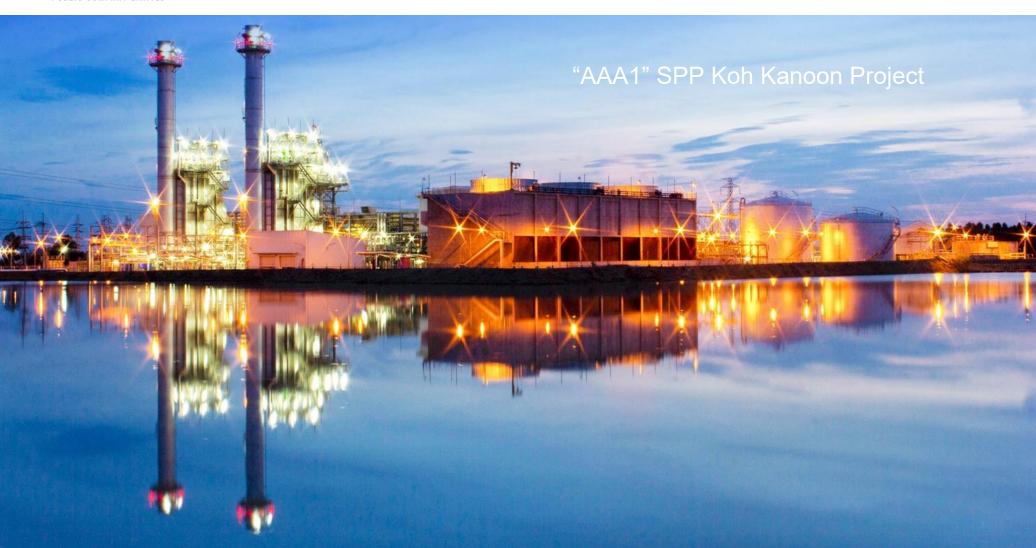


Key Observation - Q2'2023

- · Quarterly Gross Profit and Gross Profit Margin
 - QoQ: -4.1% in Gross Profit but +1.2% in Gross Profit Margin
 - YoY: +9.5% in Gross Profit and +1.7% in Gross Profit Margin
- Gross Profit in Q2'2023 increased YoY, mainly from higher electricity units sold
- Gross Profit Margin in Q2'2023 increased QoQ and YoY because of lower natural gas price and the improvement CF and AF
- Average Gas Price in Q2'2023 decreased 16.3% QoQ and 4.8% YoY



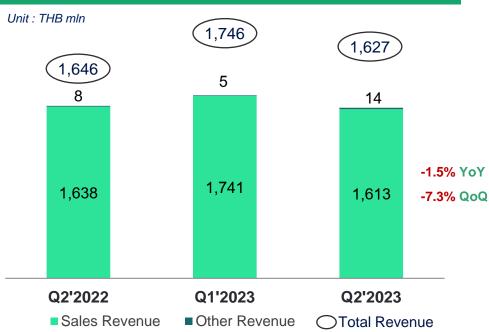
ACE Financial Highlights



Q2'2023 Financial Highlight : P&L





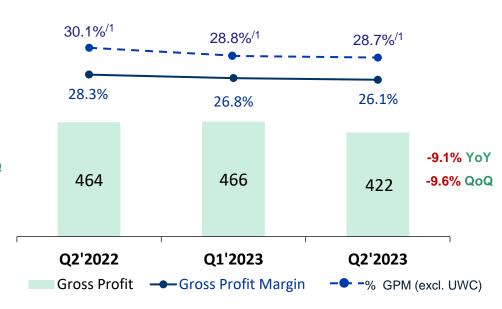


Sale Revenue in Q2'23 was THB 1,613 mln

- QoQ : -7.3% mainly from
 - the decrease of Co-Gen power plant revenues from the decrease in unit rate which was adjusted with the decrease in average natural gas price
 - the decrease of biomass power plant due to higher shutdown hours in Q2'23
- YoY: -1.5% results from
 - the decrease of biomass power plant due to higher shutdown hours in Q2'23

Gross Profit and Margin

Unit: THB mln



Gross Profit in Q2'23 was THB 422 mln

- QoQ: -9.6% from GP of Biomass decreased by THB 36.8 mln GP of MSW decreased by THB 2.0 mln GP of Co-Gen decreased by THB 6.0 mln
- YoY: -9.1% from GP of Biomass decreased by THB 50.4 mln GP of MSW decreased by THB 4.2 mln GP of Co-Gen increased by THB 12.2 mln

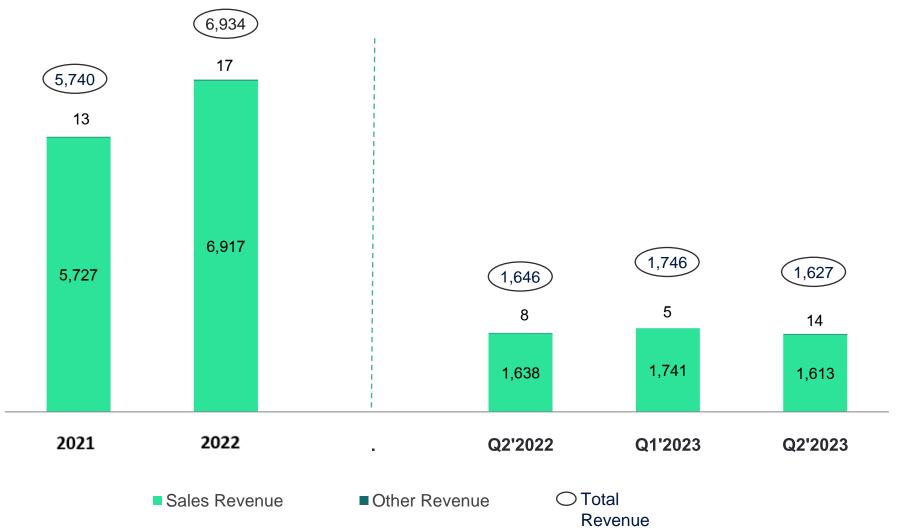
Gross Profit Margin in Q2'23 was 26.1%

- QoQ: -0.7% mainly from higher shutdown hours and higher feedstocks cost of biomass power plants
- YoY: -2.2% mainly from
 - > Higher shutdown hours of biomass power plants
 - > Higher cost of biomass feedstocks
 - > The expiration of FiT Premium period of Thoen biomass power plant

Financial Highlight - Revenue



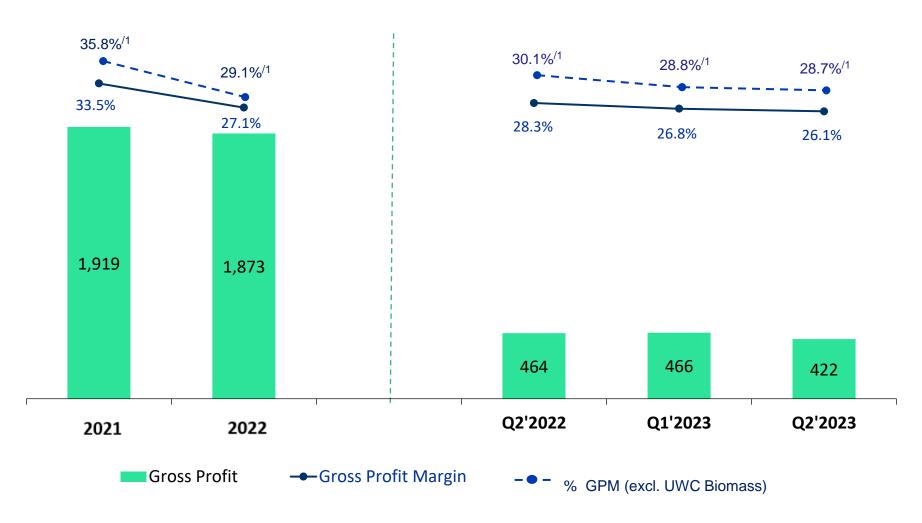




Financial Highlight – Gross Profit and Gross Profit Margin



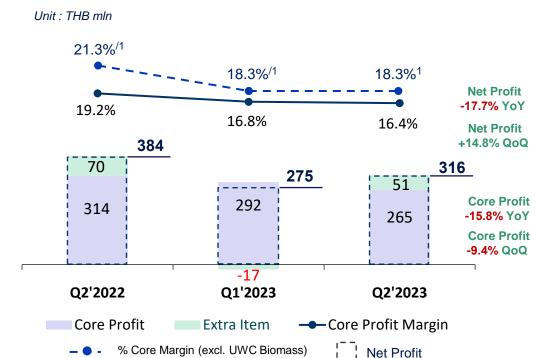
Unit: THB mln



Q2'2023 Financial Highlight : P&L



Core Profit / Net Profit



Core Profit in Q2'23 was THB 265 mln

- QoQ: -9.4% mainly from higher shutdown hours in biomass power plants
- YoY: -15.8% results from:
 - > Higher shutdown hours in biomass power plants
 - > Higher SG&A from realizing expenses in bidding new projects
 - > Higher interest expenses from higher interest rates
 - > The expiration of FiT Premium period of Thoen biomass power plant

Net Profit in Q2'23 was THB 316 mln

- QoQ: +14.8% from extraordinary items (mainly from gains on exchange rate)
- YoY: -17.7% mainly from the decrease in core profit

EBITDA and EBITDA Margin

Unit: THB mln



EBITDA in Q2'23 was THB 521 mln

• QoQ: -2.8%, YoY: -6.8% mainly from the decrease of gross profit

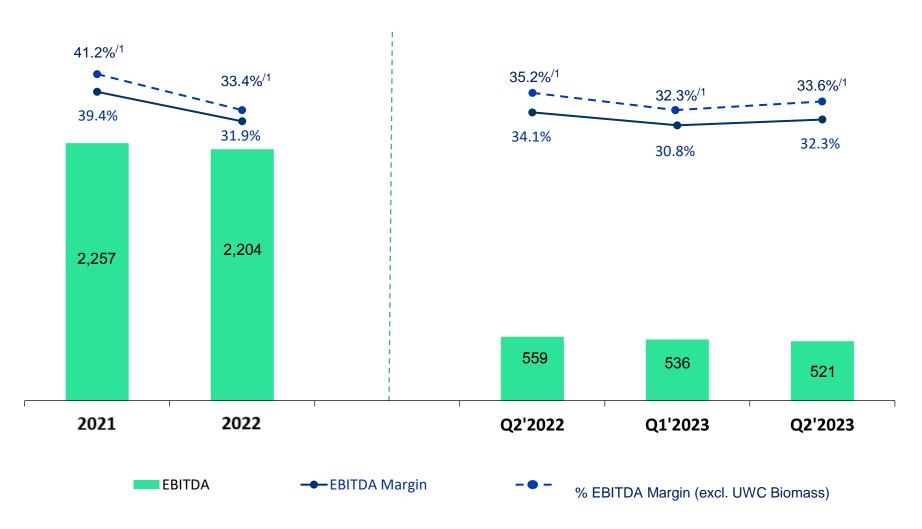
EBITDA Margin in Q2'23 was 32.3%

- QoQ: +1.5%, mainly from the improvement of gross profit margin in Co-Gen power plant
- YoY: -1.8% mainly from
 - > Higher shutdown hours in biomass power plants
 - Higher SG&A from realizing expenses in bidding new projects
 - > The expiration of FiT Premium period of Thoen biomass power plant

Financial Highlight – EBITDA



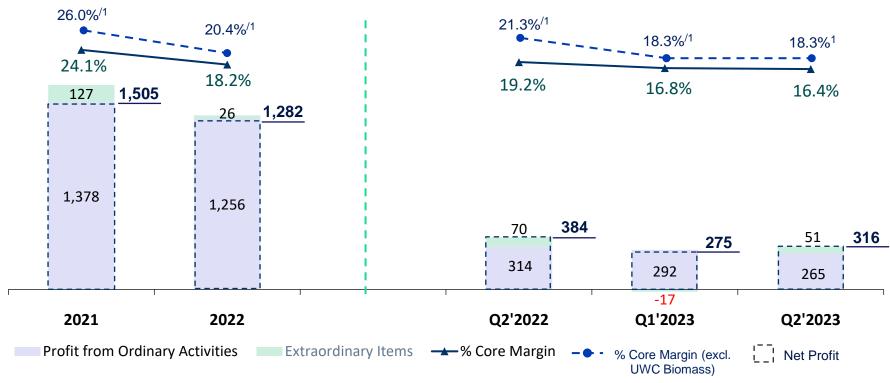
Unit: THB mln



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



Unit: THB mln

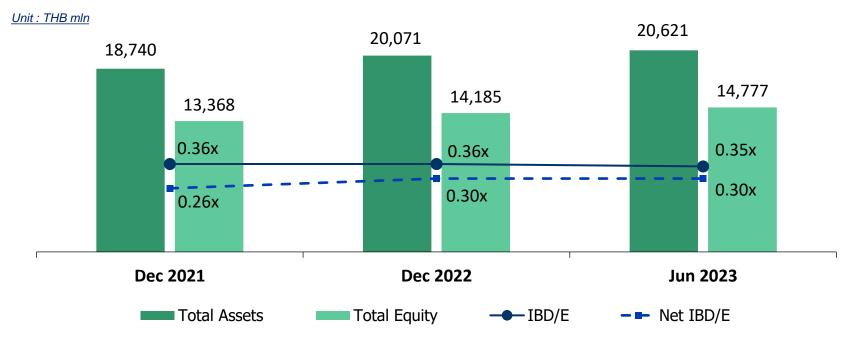


	Q2-2022		Q1-2023			Q2-2023			
	Ordinary activities	Extraordinary items	Total	Ordinary activities	Extraordinary items	Total	Ordinary activities	Extraordinary items	Total
Profit before tax (EBT)	347	87	434	308	(21)	287	279	64	343
Tax income (expense)	(33)	(17)	(50)	(16)	4	(12)	(14)	(13)	(27)
Net profit	314	70	384	292	(17)	275	265	51	316

ACE Capital Structure and Leverage Ratio



Unit: THB mln	As of				
	Dec 2021	Dec 2022	Jun 2023		
Total Assets	18,740	20,071	20,621		
Total interest-bearing debt	4,780	5,075	5,125		
Cash equivalent and restricted cash	1,326	827	764		
Net Interest-bearing debt	3,454	4,248	4,361		
Equity	13,368	14,185	14,777		





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 numerous 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 **R&D** Innovation Knowhow Key Competitive Advantages to secure 1000 Operational MW++ Strong Expertise and Relationship sustainability Economy of with Key **Stakeholders**

Advance Technology

- ✓ Ability to use multiple types of biomass fuels
- √ Ability to use high moisture feedstocks (up to 65%)
- √ 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 lenders

Sustainability

- √ Feedstock security
- Financial security
- √ Community support

ACE's Key Strengths and Opportunities





- 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

4

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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