

OPPORTUNITY DAY Q2 2023

AUG 24, 2023





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AGENDA

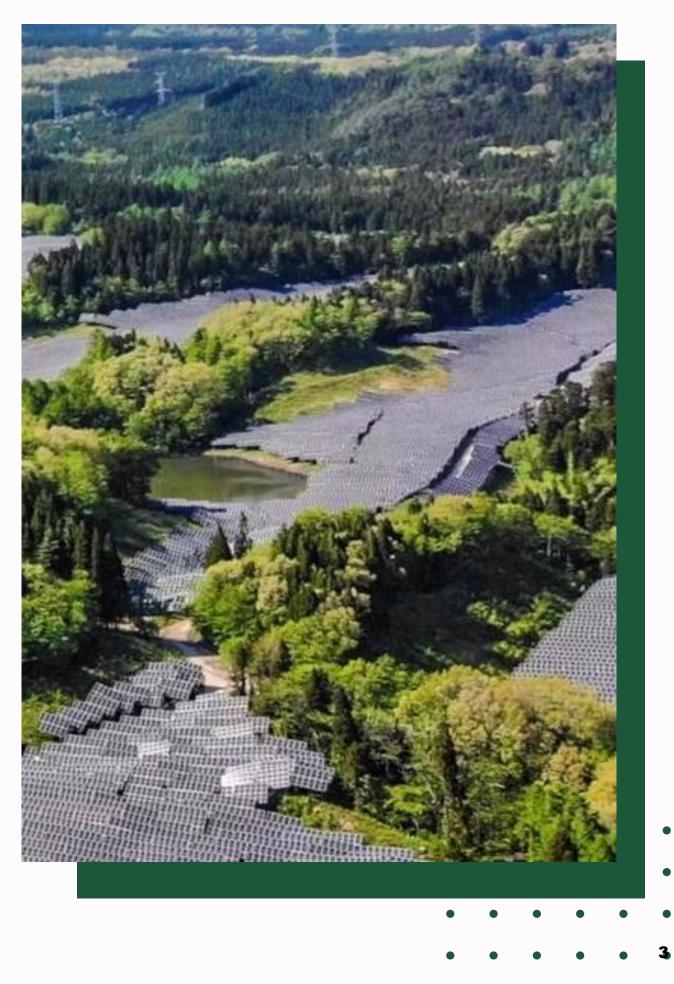
01	Company Overview
02	Financial Highlights of Q2 2023

Business Outlook

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COMPANY OVERVIEW

Summary of Corporate Information

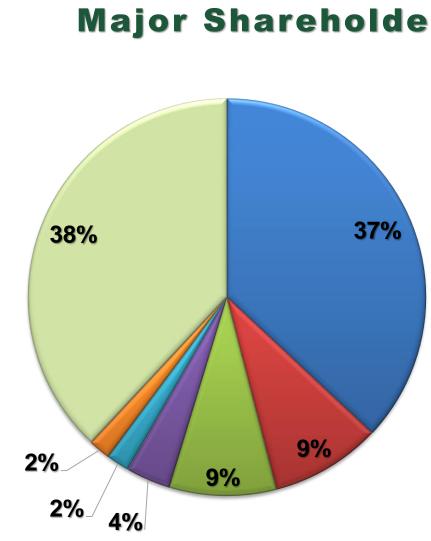


COMPANY OVERVIEW

Thai Solar Energy Public Company Limited ("TSE") was established in 2008 with a mission to establish a solid footprint in Thailand in the solar power industry and expand into other renewable energies as well as developing an international solar power business focusing in Asia and Oceania regions.

Stock Information

Company:	Thai Solar Energy Public Company Limited			
SET Symbol:	TSE			
Listed in:	MAI on October 30, 2014 Moved to SET since May 14, 2019			
Paid up Capital:	THB 2,117 million			
Sector:	Energy & Utilities			
Industry:	Resources			
CG Score:	Impleference Impleference Impleference Impleference			
Credit Rating:	BBB- stable			





Major Shareholders as of 25 May 2023

P.M. ENERGY C0.,LTD.

- SINO-THAI ENGINEERING & CONSTRUCTION PCL.
- **UBS AG SINGAPORE BRANCH**
- CREDIT SUISSE AG, SINGAPORE BRANCH
- CITI (NOMINEES) LIMITED-S.A PBG CLIENTS SG
- MISS RATANA MALEENONT
- OTHER

To become a world-class regional leader in providing renewable energy through reliable technologies to serve both commercial and social societies.

To establish a solid footprint in Thailand in the solar power industry and expand into other renewable energies as well as developing an international solar power business focusing in Asia & Oceania regions.

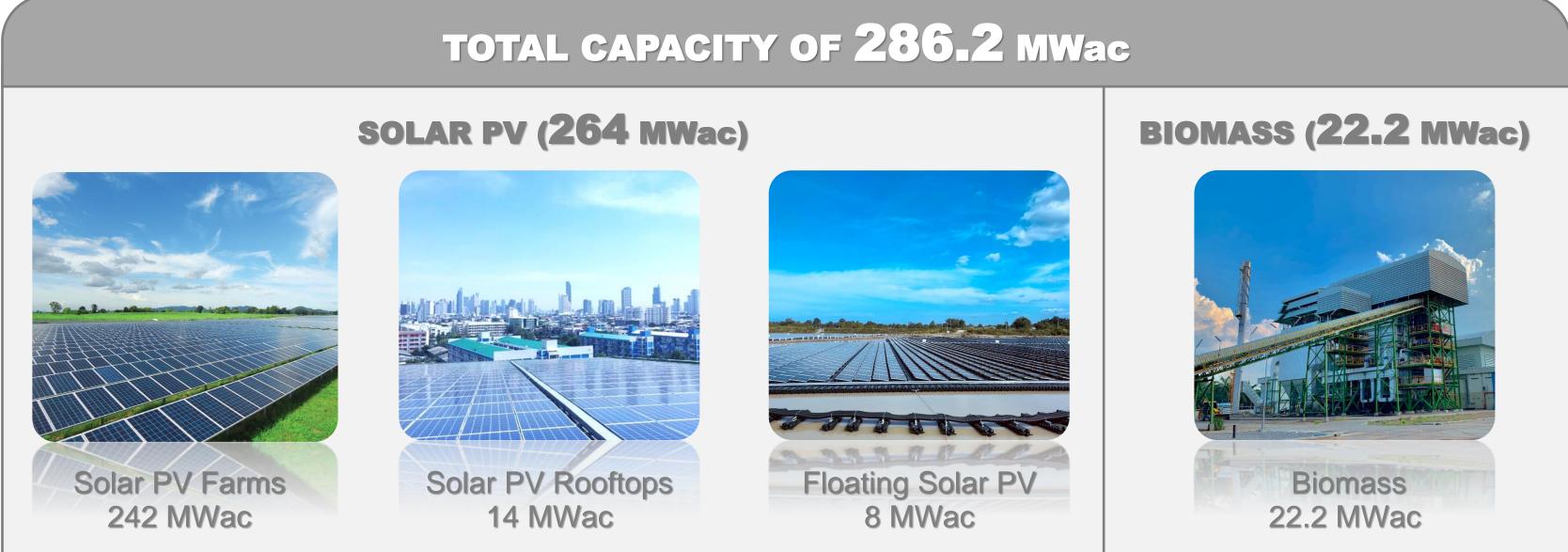
VISION



MISSION

CORE BUSINESS

TSE and its subsidiaries ("the Group") core businesses are generation and distribution of electricity from solar power and biomass to government and private company in Thailand and Japan.







MILESTONES

<u>2008 – 2014</u> Solar Farms & Solar Rooftops (TH)	<u>2015 – 2017</u> Solar Farms (JP) & Biomass (TH)	<u>2018 – 2019</u> Merger & Acquisition	
 2008: > Established TSE IFFE 2011: > Majority owned by Dr. Cathleen Maleenont > COD a Solar Thermal (4.5 MW) 2013: > COD 5 TH Solar PV projects (40 MW / Partnership with GPSC (TSE 60%) 2014: > Listed in MAI on 30 OCT 2014 Projects (40 MW / Partnership with GPSC (TSE 60%) > COD 5 TH Solar PV projects (40 MW / Partnership with GPSC (TSE 60%) > COD 5 Solar Rooftop projects (5 MW 	(1 MW) > COD 4 JP Solar PV projects	 2018: > COD Biomass 3 projects (22.2 MW) > COD a JP Solar PV project "Jyoso" (1.25 MW) > Acquired a new project "INS" in Ang Thong province (2.0 MW) in Oct 2018 2019: > COD Solar PV JP: Hanamizuki (13.5 MW) > Fully Operate Biomass 3 projects (22.2 MW) > Moved to SET on 14 May 2019 ♀ > Capital Increase to 2,117.7 MB. completely in Oct 2019. Note: TSR 212 million shares Total 530 MB. > Acquired 3 new projects: 1. "BSS" in Ayutthaya province (5 MW) in Mar 2019 	2020: : ; ; 2021: ; ;
		 2. "BSE" in Udornthani province (5 MW) in Aug 2019 3. "SSP" in Ang Thong province (8 MW) in Nov 2019 	





2020 - 2021

Private PPA

: > Start mega project "Onikoube" Construction and receive project loan from BBL

- > Invested in a Floating Solar PV farm project in Prachinburi province (8.0 MW) in Jun 2020
- > Acquired: "EES" in Krabi province (5.0 MW) in Jul 2020
- > Disposed: "BSE" in Udornthani province (5.0 MW) in Sep 2020

: > COD Floating Solar PV project (8 MWp) since 25 May 2021

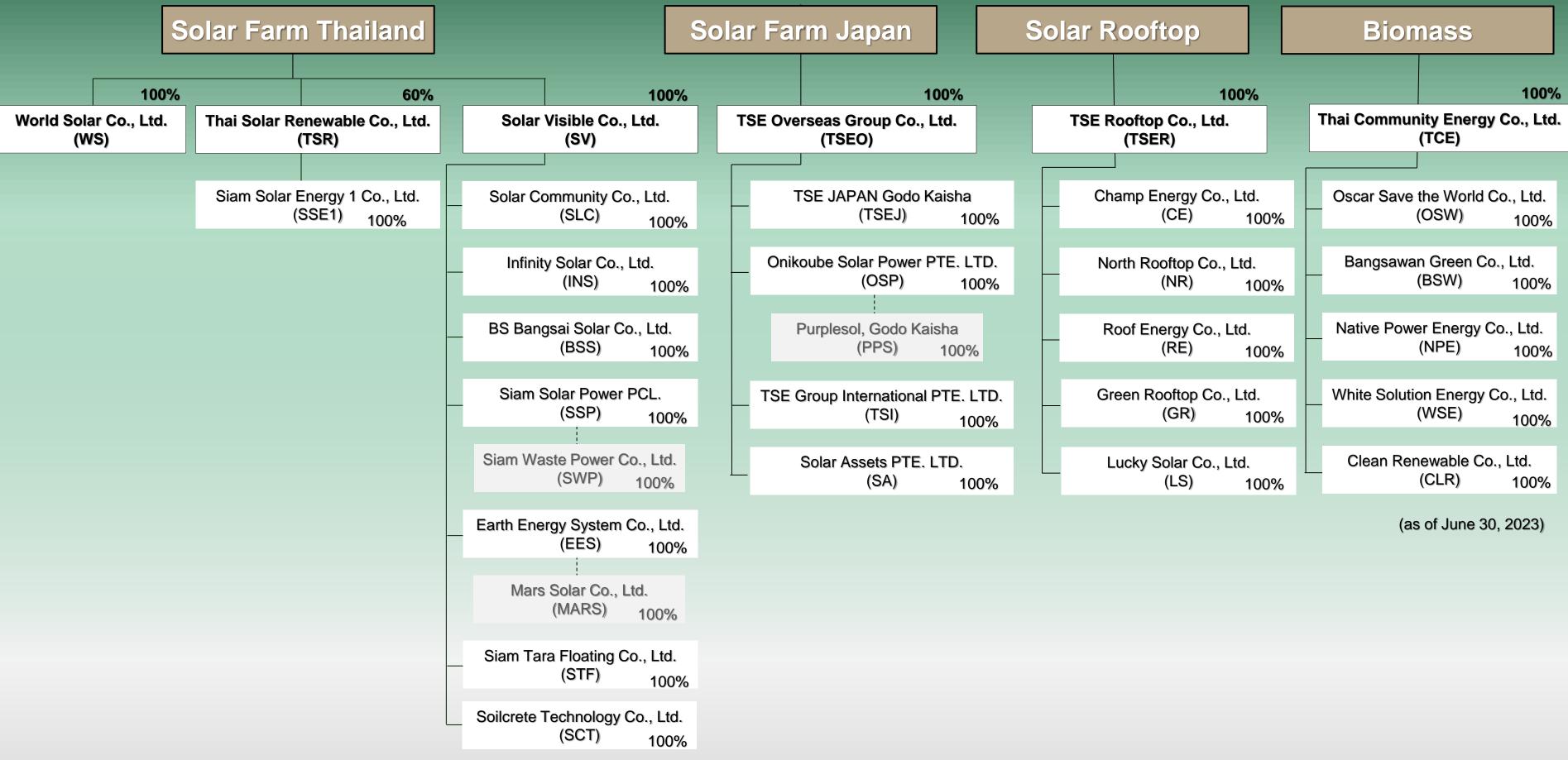
> Disposed investment in 6 small Solar Farms in Japan (totaling 8.24 MW) in Sep 2021

2022 – Onward

Exploring Investment Opportunity overseas Expanding Private PPA

- **2022:** > Divested in a solar farm "Hanamizuki" 13.5 MW in Japan in Mar 2022
 - > Acquired a new project "SCT" Solar Tracking in Nakhonsawan province (8.0 MW) in Jun 2022. The acquisition process was completed in Jul 2022
- **2023:** > Signed acceptance conditions of the Procurement of Electricity generated from Renewable Sources under the Feed-in Tariff (FiT) Scheme 2022 - 2030 for Power Plants with no Fuel Costs in 2022
 - > COD "Onikoube" project (147 MWp) since 10 May 2023

COMPANY STRUCTURE





FINANCIAL HIGHLIGHTS OF Q2 2023

Summary of TSE's Financial Performance



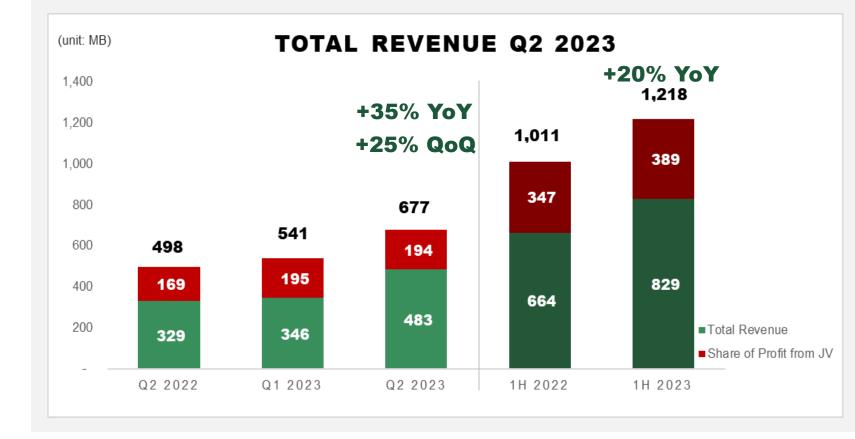
INCOME STATEMENT

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TSE - Consolidated	Q2/2023	Q2/2022	%Change	1H/2023	1H/2022	%Change
Revenue						
Electricity sales	467,960	315,559	48%	799,200	638,268	25%
Management fee	15,215	13,443	13%	29,902	25,974	15%
Total revenue	483,175	329,002	47%	829,102	664,242	25%
COGS	(290,963)	(215,173)	35%	(505,486)	(446,688)	13%
Gross Profit	192,212	113,829	69%	323,616	217,554	49%
Other Income	22,754	1,216	1771%	42,613	3,086	1281%
Administrative Expense	(157,933)	(42,630)	270%	(214,908)	(120,407)	78%
Gain (loss) on Exchange Rate	22,542	5,257	329%	58,425	(14,037)	516%
Other gains (losses)	-	(0)	0%	-	234,437	-100%
Profit (loss) before Interest and Income tax	79,575	77,671	2%	209,746	320,632	-35%
Interest expenses	(112,002)	(73,737)	52%	(201,047)	(152,038)	-32%
Profit (loss) before Income tax	(32,427)	3,934	-924%	8,699	168,594	-95%
Share of Profit from Investment in Joint Venture	193,684	169,291	14%	388,731	346,726	12%
Income tax expenses	(9,058)	(2,560)	-254%	(11,955)	(5,713)	-109%
Net Profit for the period	152,199	170,666	-11%	385,475	509,608	-24%
Extra items	115.584		100%	115.584	(234,437)	149%
Net Profit from Normal Operation for the period	267,783	170,666	▲ 57%	501,059	275,171	▲ 82%



Unit: Thousand Baht

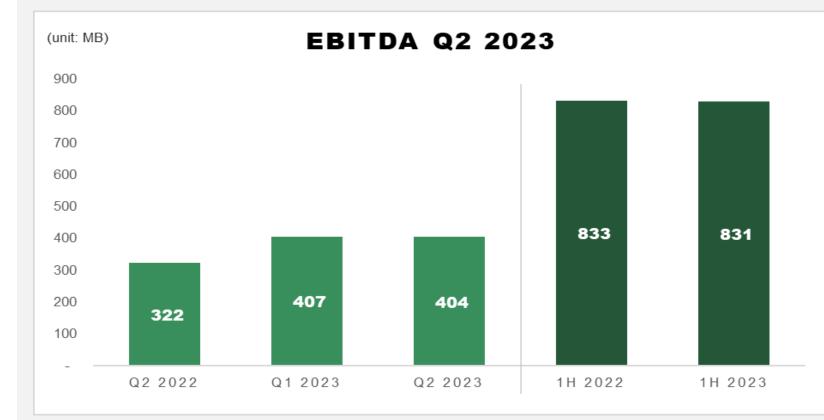
TOTAL REVENUE AND EBITDA



TOTAL REVENUE AND SHARE OF PROFIT FROM JV

Total revenue including share of profit from JV for 3-month period of Q2 2023 increased to 677 MB or +35% YoY and +25% QoQ. In the same time, our total revenue including share of profit from JV for 6-month period of Q2 2023 increased to 1,218 MB or +20% YoY.

Because a new COD solar farm in Japan, Onikoube that selling capacity 133 MW which start recognized revenue and profit since Q2 2023. In addition, the announcement of ERC to increase the Fuel Adjustment Charge (Ft).



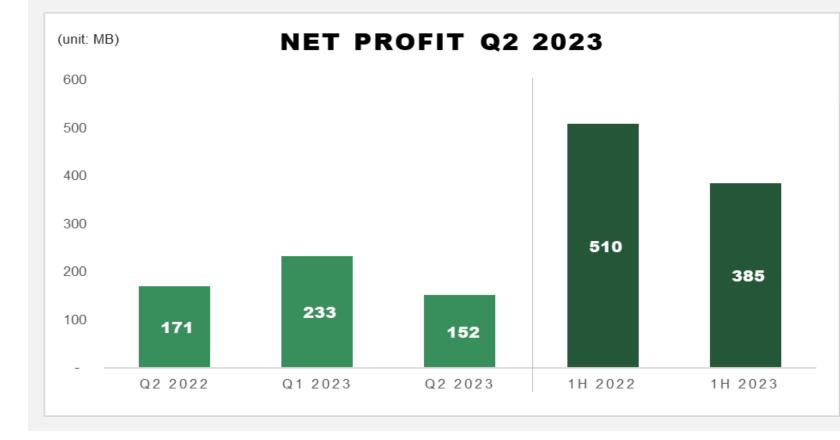
<u>EBITDA</u>

EBITDA for 3-month period of Q2 2023 increased to 404 MB or +25% YoY but slightly decreased 0.6% QoQ. And EBITDA for 6-month period of Q2 2023 is 831 MB, slightly decreased 0.2% YoY.

Due to the increased revenue mainly from a revenue of the new COD solar farm in Japan, Onikoube and the increase of the Fuel Adjustment Charge (Ft). Besides, in Q1 2022 there was a recognition of extraordinary profit from divestment solar farm in Japan amounting to 234 MB.



NET PROFIT AND EPS

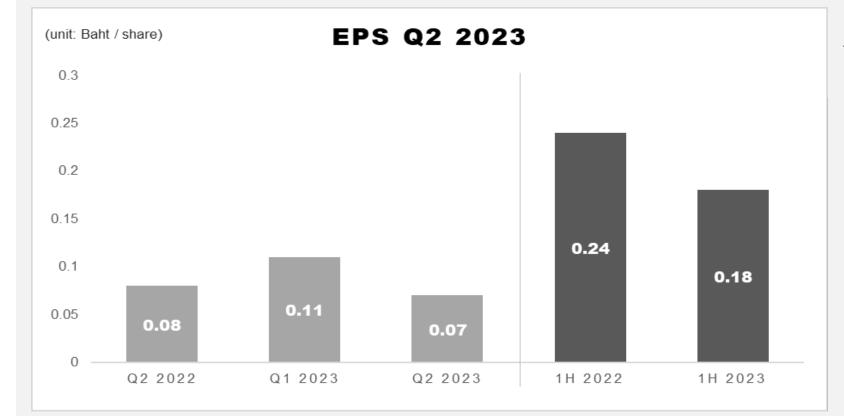


NET PROFIT

Net profit for 3-month period of Q2 2023 decreased to 152 MB or -11% YoY and -34% QoQ. In the same time, our net profit for 6-month period of Q2 2023 decreased to 385 MB or -24% YoY.

Because the increased finance costs from the increased interest rate since YE2022 [In 2023, the Monetary Policy Committee (MPC) has raised the policy rate by 0.25 percent per year, a total of 3 times.], and there was a recognition of extraordinary profit from divestment solar farm in Japan amounting to 234 MB in Q1 2022. However, exclude the extraordinary profit from divestment, the group has net profit for 6-month of Q2 2022 amounting of 275 MB. As comparable with 6-month period of Q2 2023 that increasing by 110 MB or +40%.

Furthermore, the increased profits mainly from the revenue recognition of the new COD solar farm in Japan and from the increased share of profit from JV and others that due to the announcement to increase the Fuel Adjustment Charge (Ft).

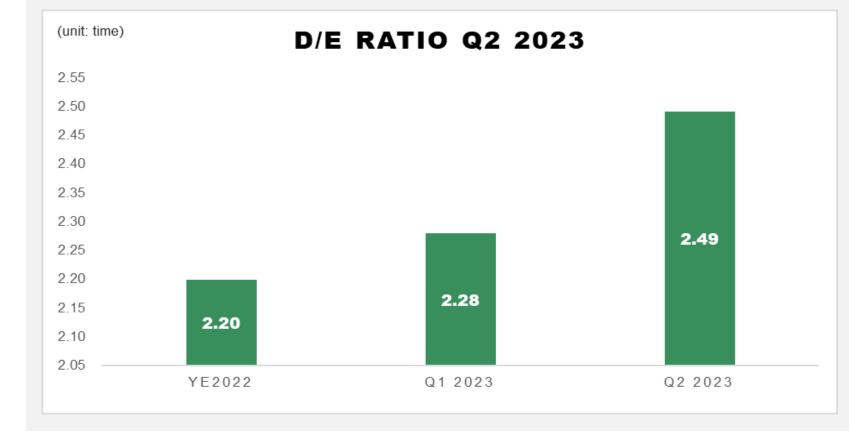


<u>EPS</u>

EPS for 3-month period and 6-month period of Q2 2023 amounting of 0.07 Baht / share and 0.18 Baht / share respectively which decreased from last year because of net profit reduction although the company's revenue and share of profit from JV was increased more than 20% but there was an increased finance costs from the increased interest rate and a recognition of extraordinary profit from divestment solar farm in Japan in Q1 2022.

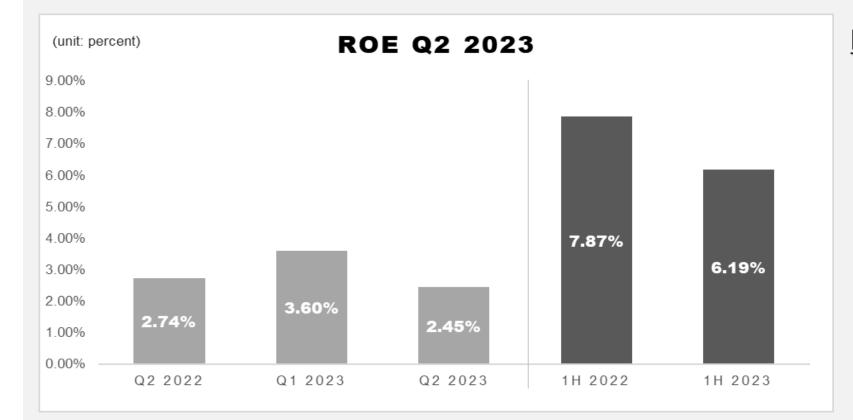


D/E RATIO AND ROE



D/E RATIO

D/E ratio at the end of Q2 2023 slightly increased to 2.49 times or +9% as compared to the end of Q1 2023 of 2.28 times because there was a recognition of liabilities from the new COD solar farm in Japan, Onikoube and the company has paid dividends in Q1 2023.



<u>ROE</u>

ROE in Q2 2023 decreased to 2.45% as compared to Q1 2023 and Q2 2022 because of net profit reduction. However, the company's revenue including share of profit from JV was increased about 35% YoY and 25% YoY

In the same time, our ROE in 1H 2023 decreased to 6.19% although our revenue including share of profit from JV was increased about 20% YoY

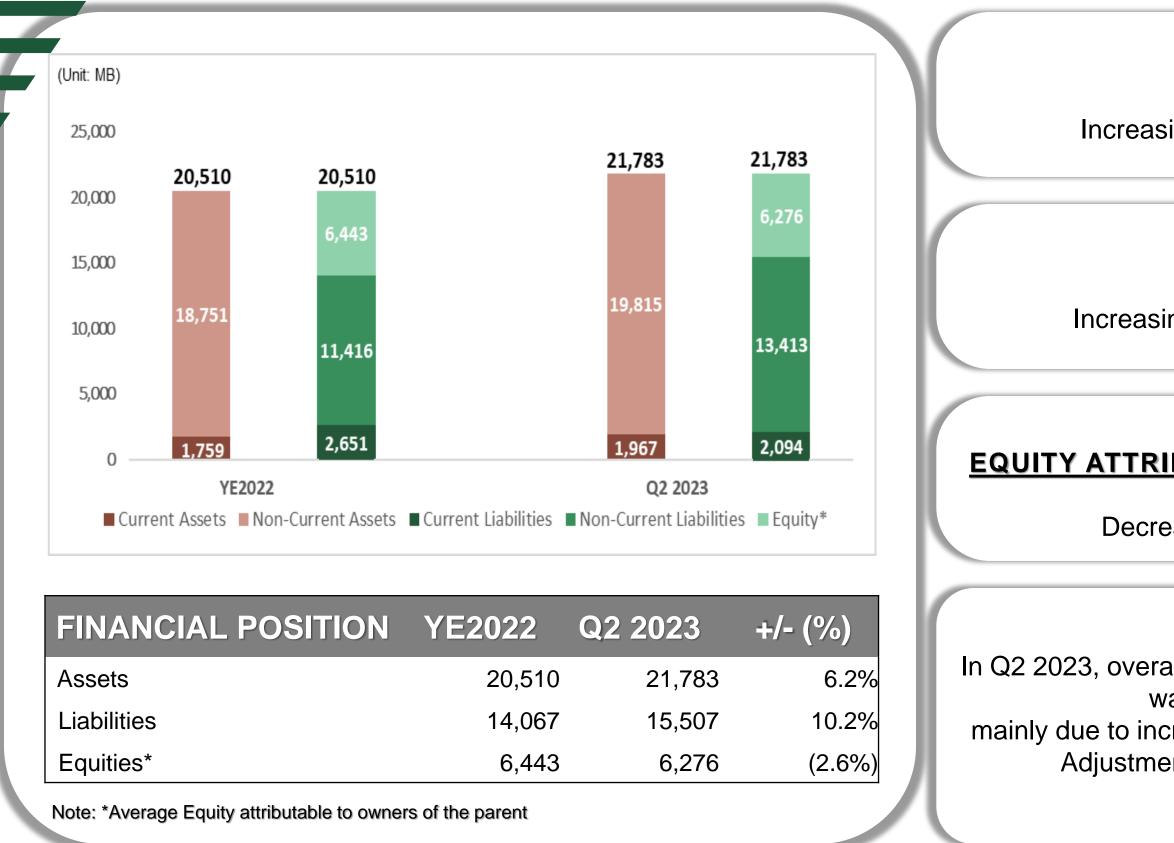
Because there was an increased finance costs from the increased interest rate since YE2022, a recognition of extraordinary profit from divestment solar farm in Japan in Q1 2022 and the company has paid dividends in Q1 2023.

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<u>Note</u>: - Equity is average equity attributable to owners of the parent - ROE is annualized ROE

FINANCIAL POSITION Q2 2023





TOTAL ASSETS +6.2%

Increasing from 20,510 MB. to 21,783 MB or +6.2%

TOTAL LIABILITIES +10.2%

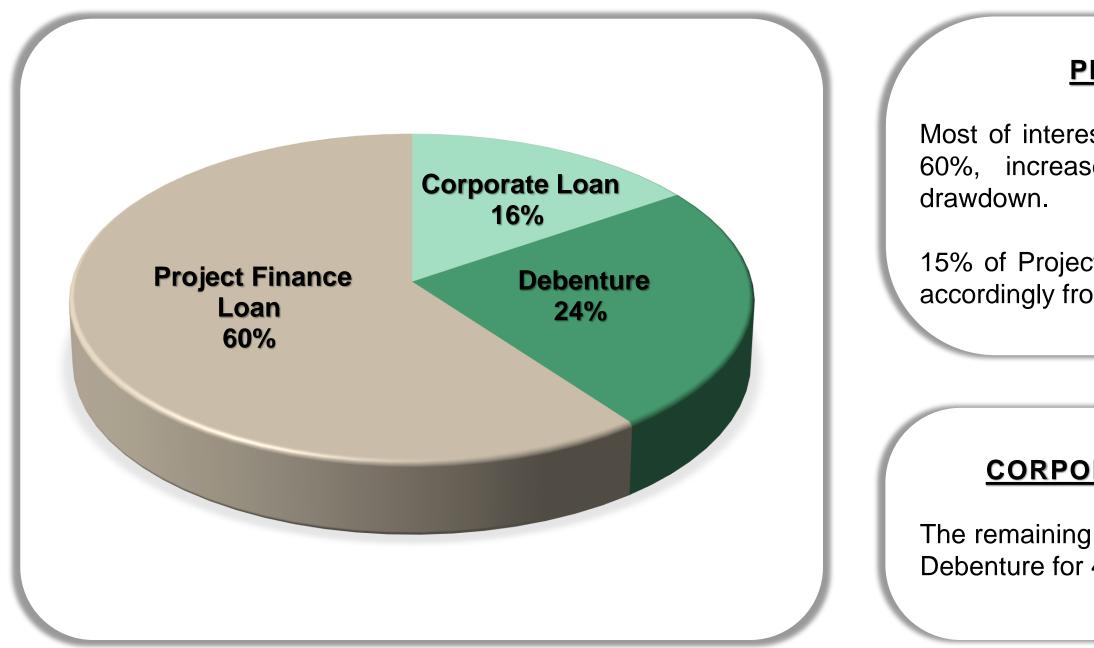
Increasing from 14,067 MB. to 15,507 MB or +10.2%

EQUITY ATTRIBUTABLE TO OWNERS OF THE PARENT -2.6%

Decreasing from 6,443 MB. to 6,276 MB. or -2.6%

In Q2 2023, overall operating performance (exclude extraordinary profit) was increased as compared to Q2 2022 mainly due to increase in new project PV farm, Onikoube and the Fuel Adjustment Charge (Ft) resulting in grew up in revenue

DEBT STRUCTURE





PROJECT FINANCE LOAN 60%

Most of interest bearing debt from Project Finance Loan for 60%, increased from Onikoube Project Finance Loan

15% of Project Finance Loan from COD projects decreased accordingly from schedule repayment.

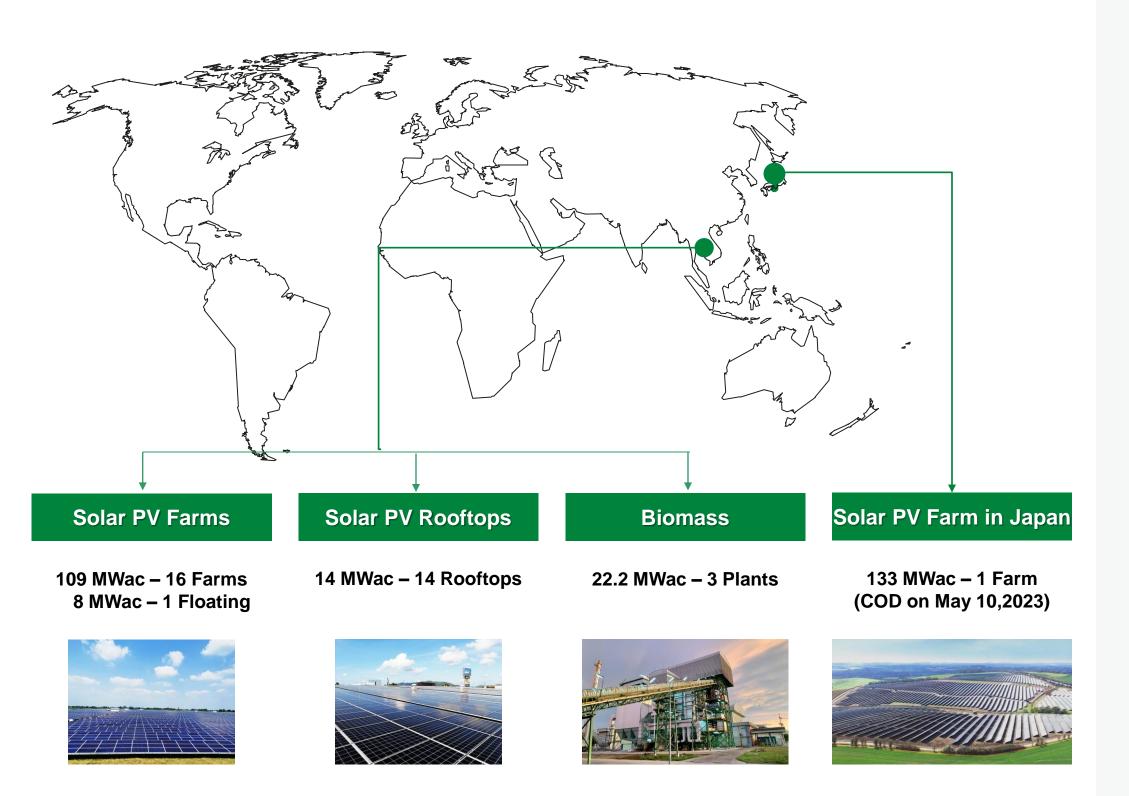
CORPORATE LOAN AND DEBENTURE 40%

The remaining interest bearing debt from Corporate Loan and Debenture for 40% decreased from schedule repayment

BUSINESS OUTLOOK

Summary of TSE's Business Outlook and Investment Plan

TSE'S PROJECTS





286.20 MWac

Total of Selling Capacity (MW PPA)

35 Projects

Total of TSE's Projects

Note: *101 MW (69 MWe) > 10 projects - Partnership with GPSC (TSE 60%)

** 286.20 MW > 35 projects (286.20 MWac) are in operation.

CAPACITY GROWTH

THAILAND

- Acquiring New Solar Projects under PDP Plan
- Penetrating Private PPA in Solar PV Farms
- Acquiring Existing Solar Projects in Thailand
- Expanding into Waste to Energy

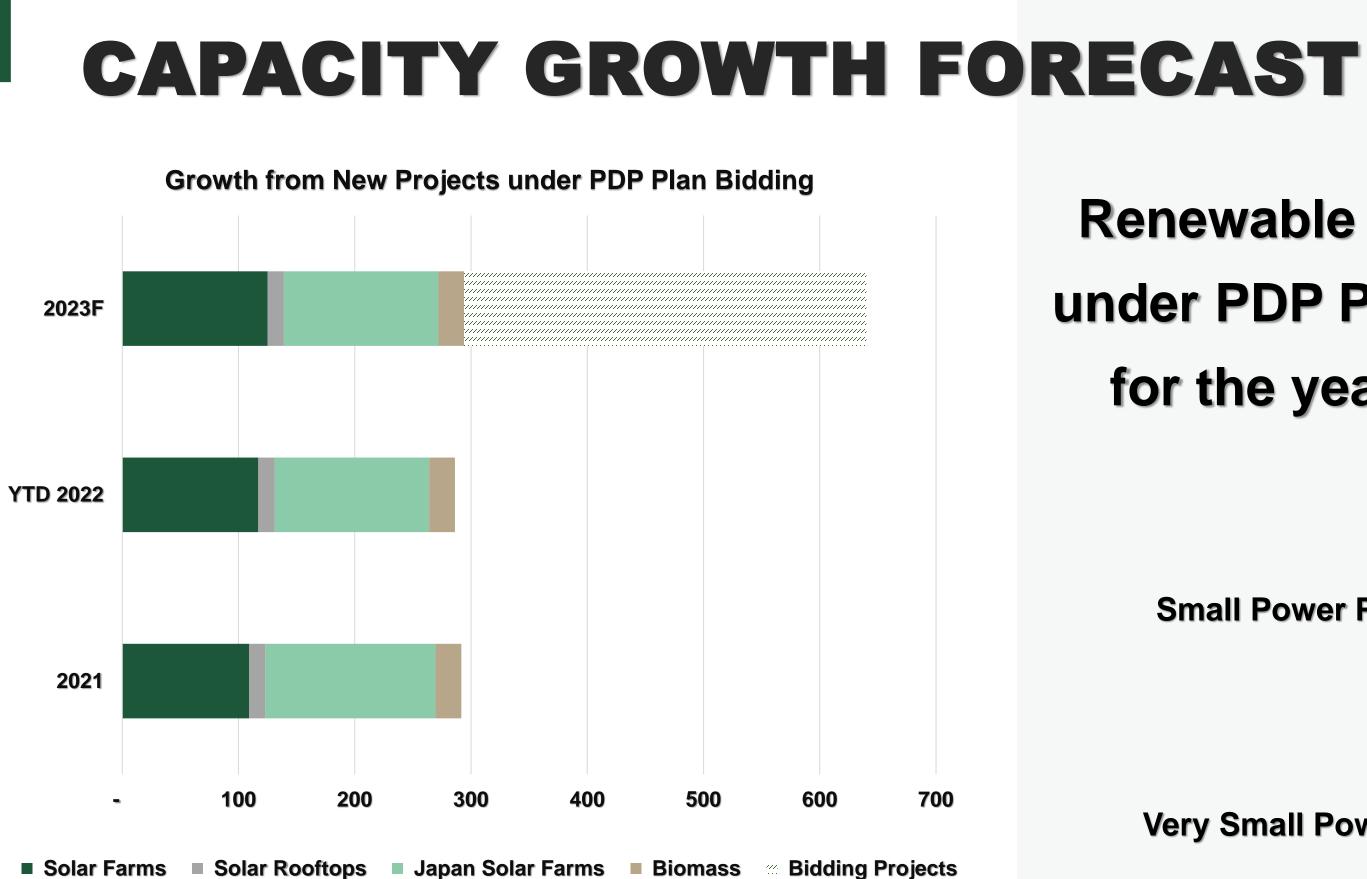
OVERSEAS



Exploring new opportunities in renewable energy projects (i.e. Wind and Solar Farms) overseas

Totaling approx. Over 500 MW*

within the next 7 years





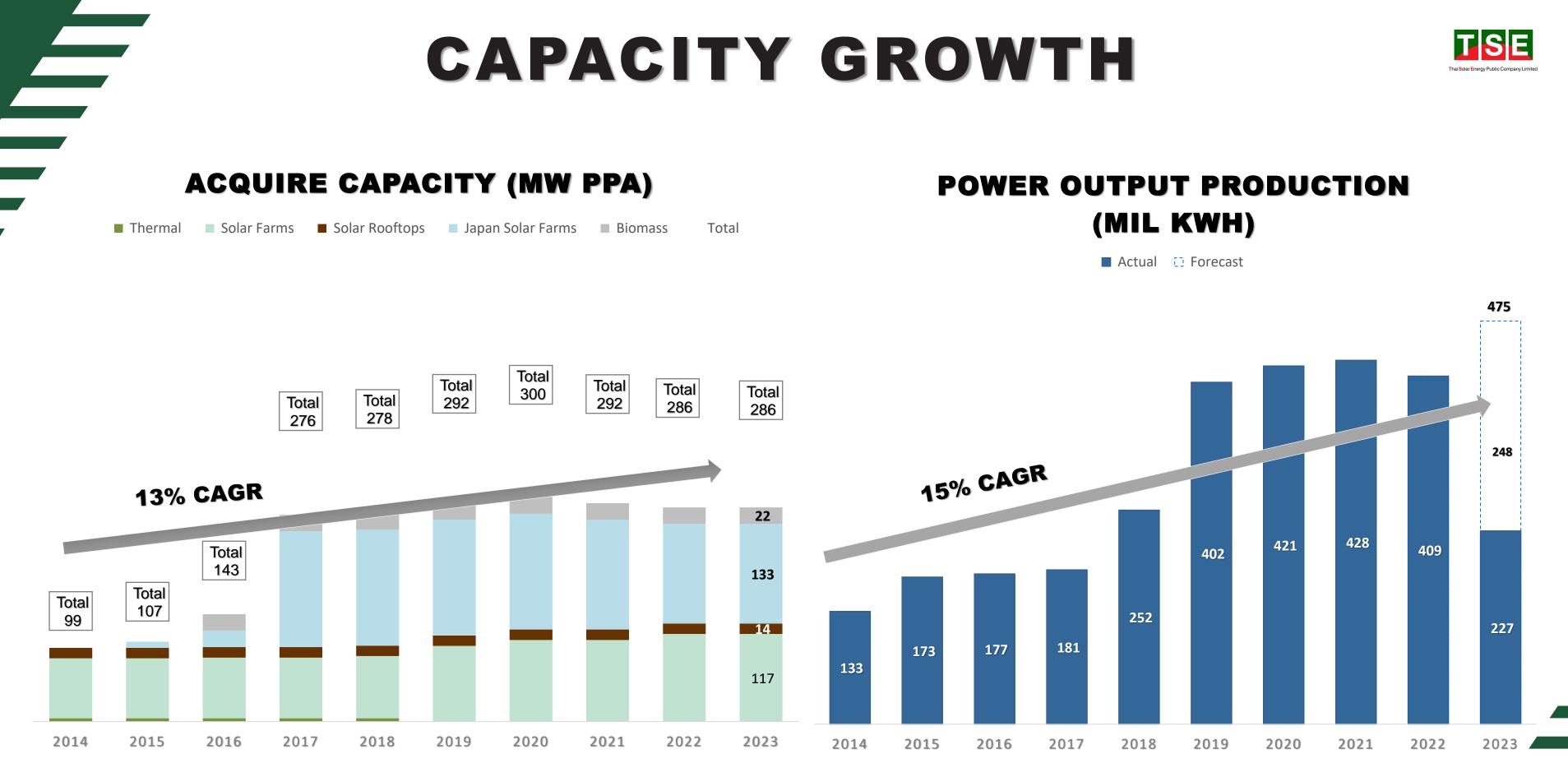
Renewable Energy Projects under PDP Plan in FiT Format for the year 2024 – 2030F

<u>SPP</u>

Small Power Producer (10 – 90 MW)

<u>VSPP</u>

Very Small Power Producer (<10 MW)





THANK YOU

Investor Relations

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