

Thai Solar Energy PCL.

Presentation

1H2020

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AGENDA

- O1 Company Overview
- 02 Update New Projects 2020
- O3 Financial Highlights 1H2020
- O4 TSE's Projects
- O5 Appendix







COMPANY OVERVIEW

- Company Overview
- Milestones
- Portfolio Summary
- Capacity Growth
- Key Highlights FY2019
- Key Highlights FY2020

COMPANY OVERVIEW





Vision:

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

Mission:

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

COMPANY OVERVIEW

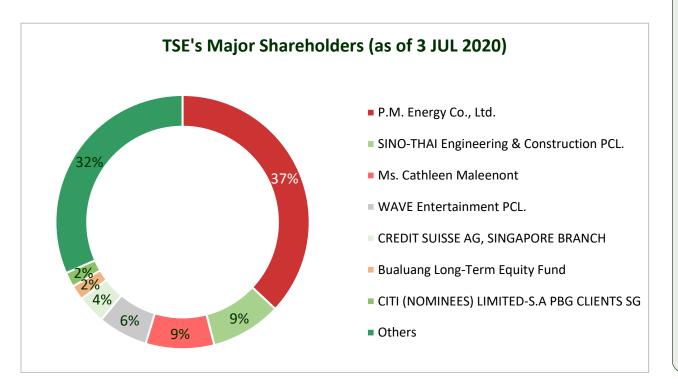


Core Businesses

Solar PV Farms Solar PV Rooftops

Biomass

Floating Solar Farm



Established: in 2008

Listed in Secondary Market: MAI on 30 OCT 2014

SET on 14 MAY 2019

Core Business: Operates in the business

of and generation and

distribution of electricity

from solar and other

renewable energies.

Paid-up Capital: 2,117.7 MB.

CG Rating:

Credit Rating: BBB

MILESTONES





2008 - 2011

2013 - 2015

2016 - 2018

2019

2020 - 2022

2008

Established TSE

2011

- Majority owned by Dr. Cathleen Maleenont
- COD Solar Thermal (4.5 MW)



2013

COD Solar PV TH 5
 projects* (40 MW) /
 Partnership with GPSC
 (TSE 60%)

2014 Listed in MAI Table 2014

- COD Solar PV TH 5
 projects* (40 MW) /
 Partnership with GPSC
 (TSE 60%)
- COD Solar Rooftop 5 projects (5 MW)

2015

- Expanded TSE's business operation in Japan
- COD Solar PV JP 1 project (0.5 MW)
- COD Solar Rooftop 9 projects (9 MW)

2016

- COD Solar PV Co-Op 1 project (1 MW)
- COD Solar PV JP 4 projects (6.49 MW)
- Invested in Biomass 3 projects

2017

 Large Investment in Japan "Onikoube project" (147 MWp)

2018

- COD Biomass 3 projects (22.2 MW)
- COD Solar PV JP: Jyoso (1.25 MW)
- Acquired a new project "INS" in Ang Thong province (2.0 MW) in OCT 2018

2019

Moved to SET 14 MAY 2019



- COD Solar PV JP: Hanamizuki (13.5 MW)
- Fully Operate Biomass 3 projects (22.2 MW)
- Capital Increase to 2,117.7 MB. completely in OCT 2019

Note: TSR 212 million shares: Total value approx. 530 MB.

- Acquired a new project "BSS" in Ayutthaya province (5.0 MW) in MAR 2019
- Acquired a new project "BSE" in Udornthani province (5.0 MW) in AUG 2019
- Acquired a new project "SSP" in Ang Thong province (8.0 MW) in NOV 2019 Note: All new acquired projects have been COD already.

2020

- Start project "Onikoube" Construction and receive project loan from BBL
- Invested in a Floating Solar PV farm project "BPT" in Prachinburi province (8.0 MW) in JUN 2020
- Acquired a new project "EES" in Krabi province (4.3 MW) in JUL 2020

Present - 2022

- Planning to do M&A in Thailand approx. 50 MW within 1 – 2 years
- Planning to bid for Power Plant for Community approx. 50 MW
- Planning to invest in new renewable energy projects overseas approx. 100 – 200 MW PPA within 3 years

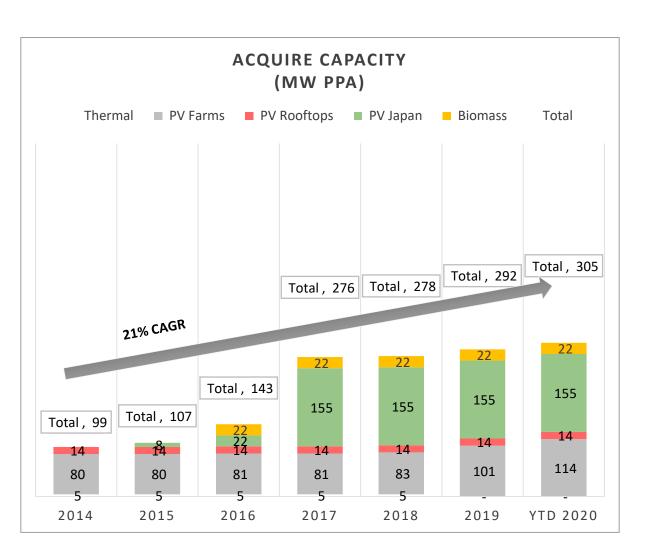
PORTFOLIO SUMMARY

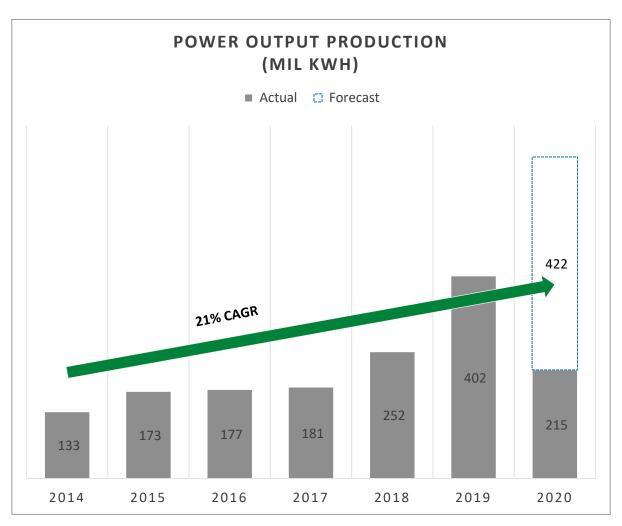


Year	Projects	Ownership	No. of Sites	Installed Capacity (MW _{DC})	Selling Capacity (MW _{AC})	Equity Capacity (MW _e)	
2009 - 2011	Solar PV Farms - Thailand	60%	10	104.8	80	48	
2014	Solar PV Rooftop	100%	14	14	14	14	
2015	Solar PV Farms – Japan	100%	6	10.44	8.24	8.24	
2016	Biomass	100%	3	25.8	22.2	22.2	
	Solar PV Farm – Thailand	100%	1	1	1	1	
	Solar PV Farms – Japan	100%	1	18.1	13.5	13.5	
2017	Solar PV Farm – Japan	100%	1	147	133	133	
2018	Solar PV Farm – Thailand	100%	1	2	2	2	
2019	Solar PV Farms – Thailand	100%	3	19.7	18	18	
2020	Solar PV Farm – Thailand	100%	1	5	4.3	4.3	
	Floating Solar PV Farm – Thailand	100%	1	8	8	8	
	Total		42	355.84	304.24	272.24	

CAPACITY GROWTH







KEY HIGHLIGHTS FY2019











JAN

COD Hanamizuki (13.5 MW)

Location: Ishikawa, Japan

FiT: JP¥ 36 COD: 2 JAN 2019



Acquisition BSS (5.0 MW)

Location: Ayutthaya
FiT: 5.66 Baht
COD: 26 DEC 2016



Additional Investment in OSW of 25% (100%)

Location: Nakorn Si Thammarat

FiT: 4.24 Baht + Premium 0.30 Baht (8 yrs.)

COD: OSW1 – AUG 2018 OSW2 – OCT 2018



Acquisition BSE (5.0 MW)

Location: Udornthani
FiT: 4.12 Baht
COD: 12 DEC 2018



Right Offering: TSR (TSE-T1)

Capital Increase to 2,117.7 MB.

- TSR 212 million shares

- Total value approx. 530 MB.



Acquisition SSP (8.0 MW)

Location: Ang Thong

Adder: 8.0 Baht (10 yrs.) COD: 29 MAR 2013

KEY HIGHLIGHTS FY2020





- Start Project
 Construction in April,
 2020
- Project Financing by BBL THB 8.6 bn.



• PPA Period 25 years



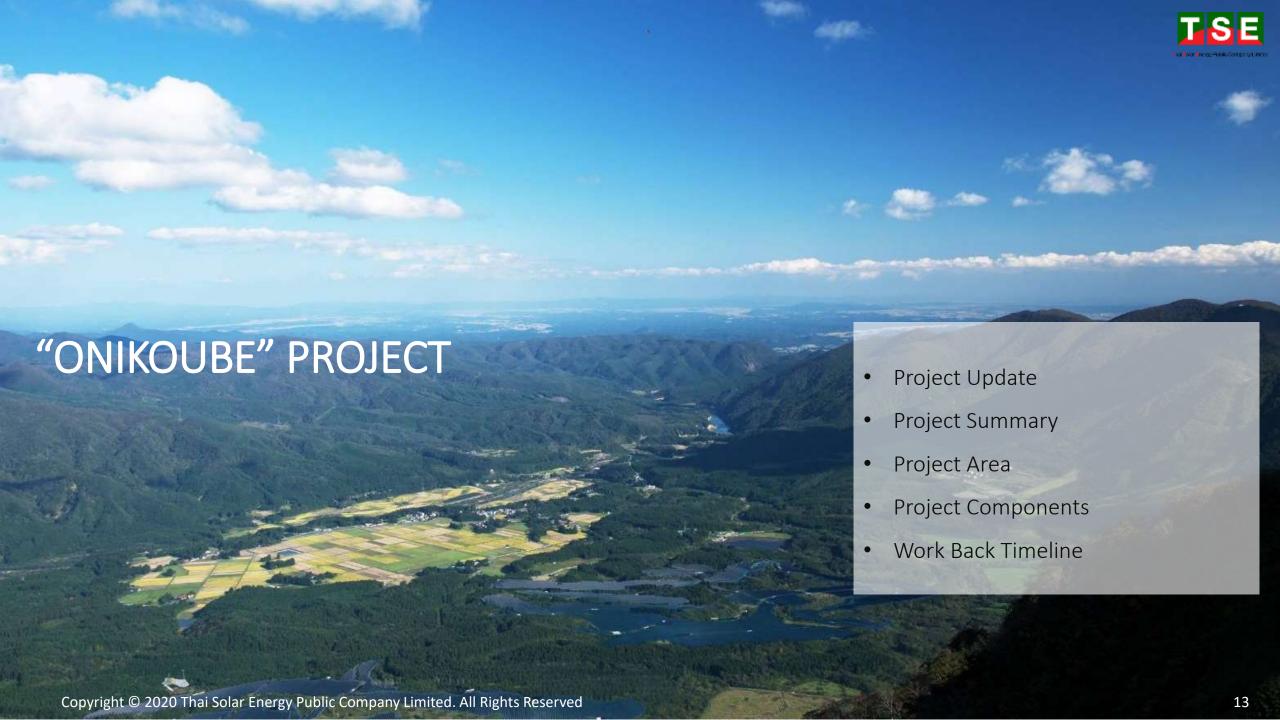
- Completed acquisition in July 2020
- COD 29 DEC 2018
- PPA Period 25 years





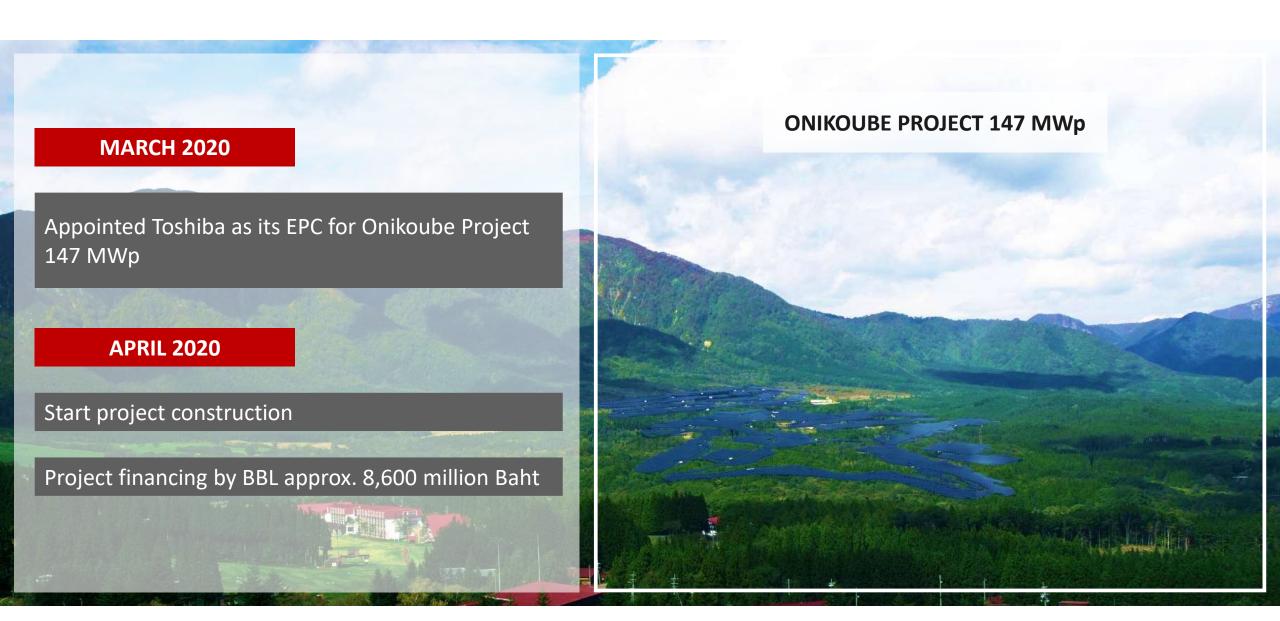
UPDATE NEW PROJECTS 2020

- Onikoube Project (147 MWp)
- Floating Solar Farm (8 MWp)
- Solar Farm Krabi (5 MWp)



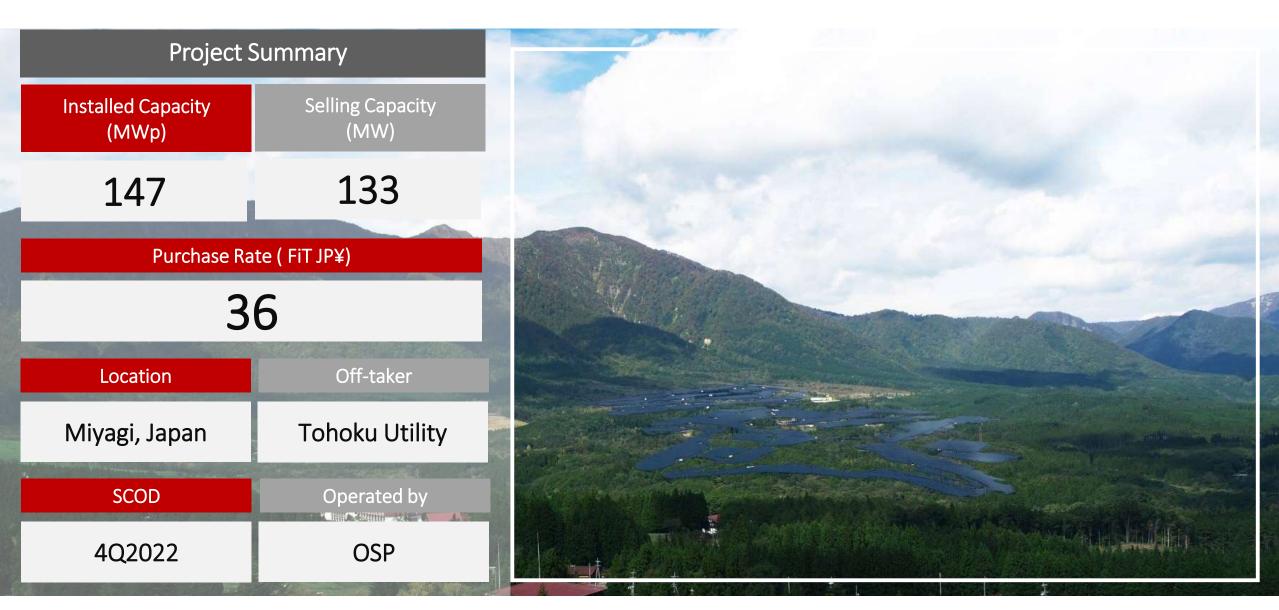
PROJECT UPDATE





PROJECT SUMMARY





PROJECT AREA





Project Area



PROJECT COMPONENTS





WORK BACK TIMELINE

Preparation on land

usage





Construction planning

^{*}METI's one-year rule requires resubmission of a business plan in order to secure project's FiT price and tenor year under the condition that the project is ready for the construction and to COD within a certain timeline. The conditions required by METI such as, EIA Approval, Forest Permit. Onikoube does not subject to such requirements so the project successfully secures FiT price under the new rule.





FLOATING SOLAR 8 MWp in Prachinburi

Project Summary

PROJECT SUMMARY



Project Summary	,
------------------------	---

Installed Capacity (MWp)

Selling Capacity (MWac)

8

8

PPA Type

PPA Period

Private PPA

25 years

Location

Off-taker

Kabinburi Industrial Estate Prachinburi, Thailand

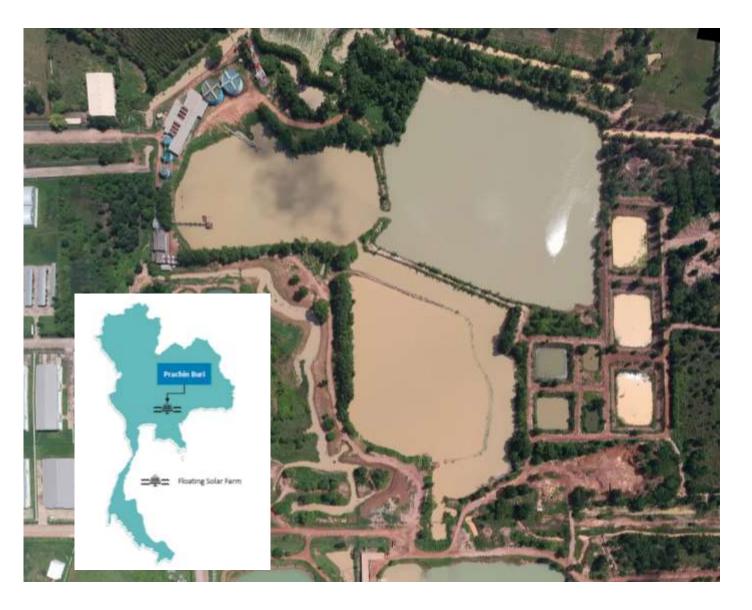
Hitachi

SCOD

Operated by

2Q2021

SV





PROJECT SUMMARY



Project Summary

Installed Capacity (MWp)

Selling Capacity (MWac)

5

4.3

Purchase Rate (FiT THB)

4.12

Location

Off-taker

Krabi, Thailand

PEA

COD

Operated by

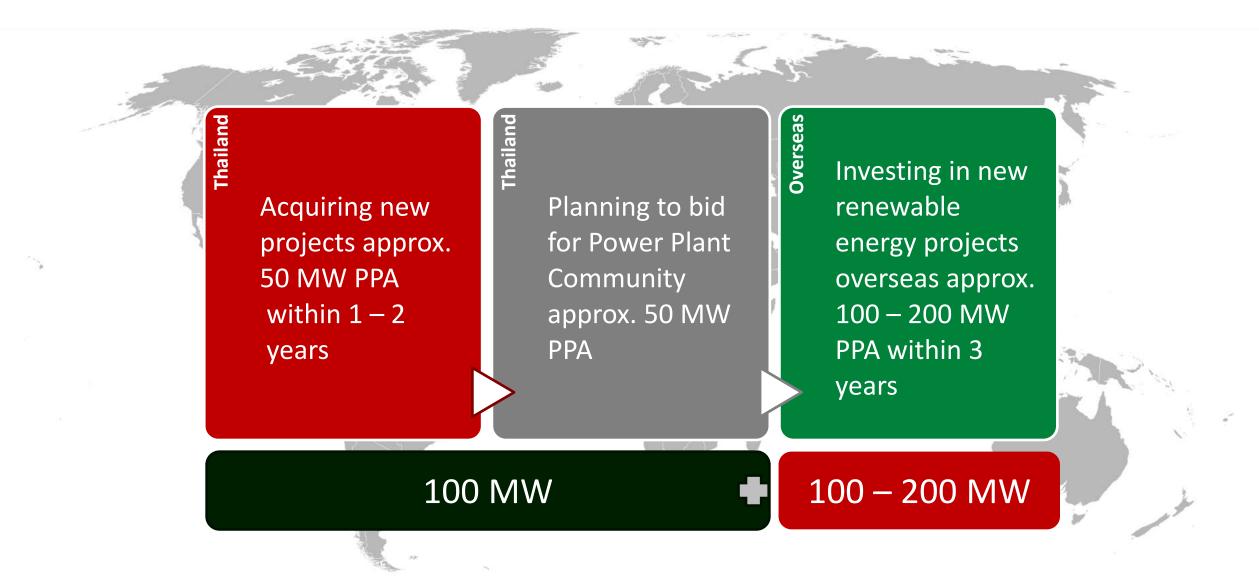
29 DEC 2018

SV



OUTLOOK









FINANCIAL HIGHLIGHTS 1H2020

- Income Statement 1Q2020 and 2Q2020
- Financial Position
- Revenue and EBITDA
- Net Profit and ROE
- EPS and D/E
- Debt Structure

INCOME STATEMENT 1Q2020 (3M)



	(3M) Consolidated (Unit: Thousand Baht)				
Statement of Comprehensive Income					
	1Q2020	1Q2019	% Change		
Revenue					
Electricity Sales	359,694	289,018	24%		
Management Fee	11,365	10,824	5%		
Total Revenue	371,059	299,842	24%		
COGs	(241,462)	(198,426)	22%		
Gross Profit	129,597	101,416	28%		
Other Income	4,708	7,224	-35%		
Administrative Expenses	(65,732)	(64,811)	1%		
Loss from exchange rate	(167,472)	(1,877)	8822%		
Finance costs	(62,537)	(45,977)	36%		
Share of Profit from joint ventures	168,589	160,105	5%		
Profit before Income Tax	7,153	156,080	-95%		
Income Tax	(663)	(154)	331%		
Net Profit from Operation	6,490	155,926	-96%		
Currency translation differences	515,158	(113,820)	-553%		
Change in fair value of hedging derivatives	(7,740)	0	100%		
Total Comprehensive Income	513,908	42,106	1121%		
Profit Attributable to:					
Owners of the Parent	6,531	146,726	-96%		
Non-Controlling Interests	(41)	9,200	-100%		
	6,490	<u>155,926</u>	-96%		
Total Comprehensive Income Attributable to:	<u>2,122</u>	======	30,0		
Owners of the Parent	513,607	32,919	1460%		
Non-Controlling Interests	301	9,187	-97%		
	<u>513,908</u>	<u>42,106</u>	1121%		

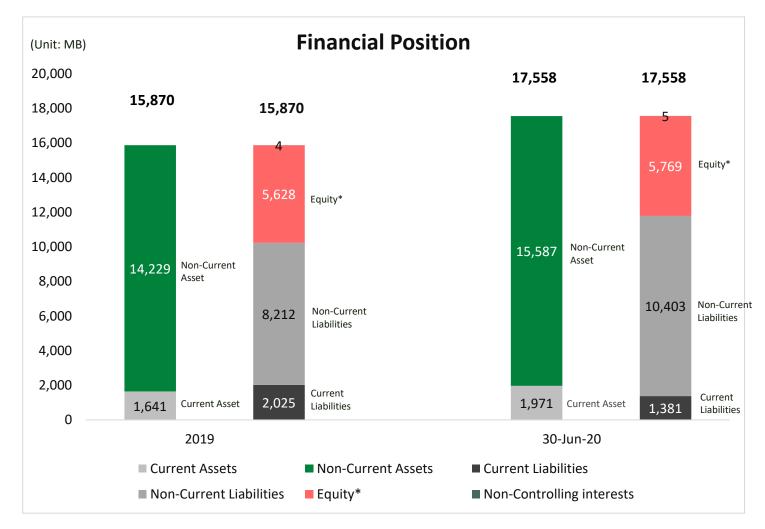
INCOME STATEMENT 2Q2020 (3M and 6M)



		(3M)			(6M)			
Statement of Comprehensive Income		Consolidated (Unit: Thousand Baht)						
	2Q2020	2Q2019	% Change	2Q2020	2Q2019	% Change		
Revenue								
Electricity Sales	407,635	358,988	14%	767,329	648,006	18%		
Management Fee	11,745	13,196	-11%	23,110	24,020	-4%		
Total Revenue	419,380	372,184	13%	790,439	672,026	18%		
COGs	(258,539)	(221,222)	17%	(500,001)	(419,648)	19%		
Gross Profit	160,841	150,962	7%	290,438	252,378	15%		
Other Income	2,112	13,051	-84%	6,820	20,275	-66%		
Administrative Expenses	(94,075)	(46,338)	103%	(159,807)	(111,149)	44%		
Gain (loss) from exchange rate	96,355	(2,489)	-3971%	(71,117)	(4,366)	1529%		
Finance costs	(93,114)	(67,917)	37%	(155,651)	(113,894)	37%		
Share of Profit from joint ventures	169,990	173,659	-2%	338,579	333,764	1%		
Profit (Loss) before Income Tax	242,109	220,928	10%	249,262	377,008	-34%		
Income Tax	712	1,010	-30%	49	856	-94%		
Net Profit from Operation	242,821	221,938	9%	249,311	377,864	-34%		
Currency translation differences	(290,766)	(30,883)	842%	224,392	(144,703)	-255%		
Change in fair value of hedging derivatives	4,826	0	100%	(2,914)	0	100%		
Total Comprehensive Income	(43,119)	191,055	-123%	470,789	233,161	102%		
Profit Attributable to:								
Owners of the Parent	242,377	208,394	16%	248,908	355,121	-30%		
Non-Controlling Interests	444	13,544	-97%	403	22,743	-98%		
	242,821	221,938	9%	249,311	377,864	-34%		
Total Comprehensive Income Attributable to:								
Owners of the Parent	(43,393)	177,470	-124%	470,214	210,389	123%		
Non-Controlling Interests	274	13,585	-98%	575	22,772	-97%		
	<u>(43,119)</u>	<u>191,055</u>	-123%	<u>470,789</u>	<u>233,161</u>	102%		

FINANCIAL POSITION AS OF 30 JUNE 2020





Note: *Equity attributable to owners of the parent

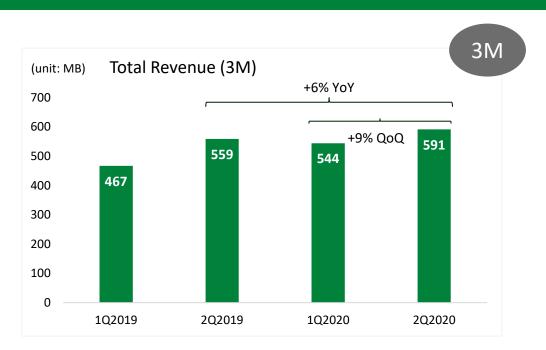
Due to the business expansion continually, total assets and total liabilities increased respectively. Therefore, it helped generate more revenue and increase in net profit.

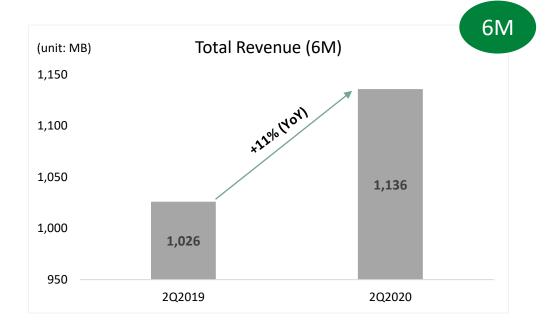
As of 30 June 2020:

- Total Assets increased from 15,870 MB to 17,558 MB, or increased 11%.
- Total Liabilities also increased from 10,237
 MB to 11,784 MB, or increased 15%.
- Equity attributable to owners of the parent also slightly increased from 5,628 MB to
 5,769 MB, or increased 3%.

2Q2020: TOTAL REVENUE (3M) and (6M)





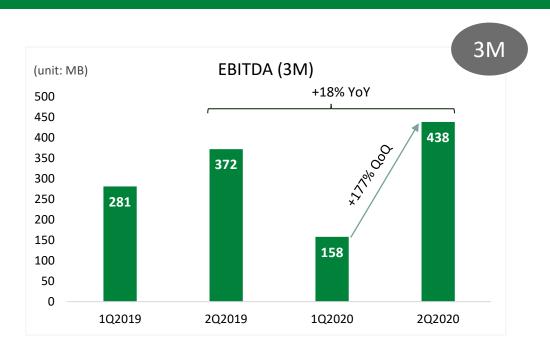


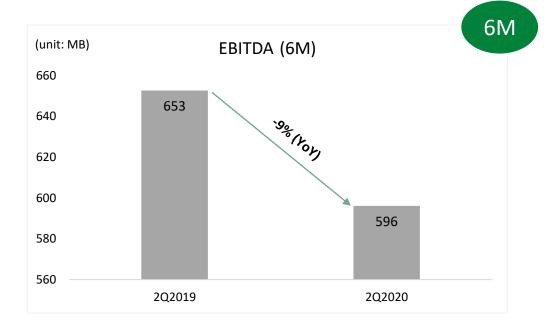
2Q2020: Total Revenue (3M) and (6M)

- 3-month period of 2Q2020: Total Revenue slightly increased to 591 MB or +6% (YoY) as compared to 2Q2019 which was 559 MB. This was primarily due to revenue recognition fully from 3 new projects acquired during the year 2019 which were: 1) BSS in Ayutthaya (5 MW), 2) BSE in Udornthani (5 MW), and 3) SSP in Ang Thong (8 MW) of which were totaling of 18 MW.
- 6-month period of 2Q2020: Total Revenue increased to 1,136 MB or 11% (YoY) as compared to 2Q2019 which was 1,026 MB.

2Q2020 : EBITDA (3M) and (6M)





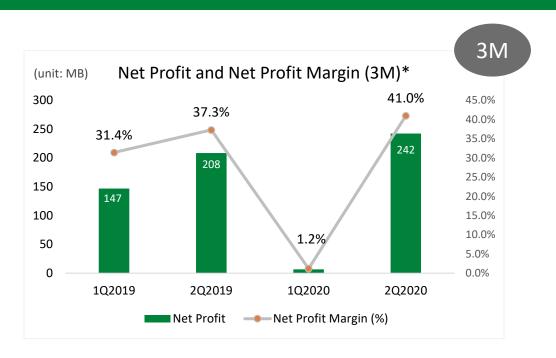


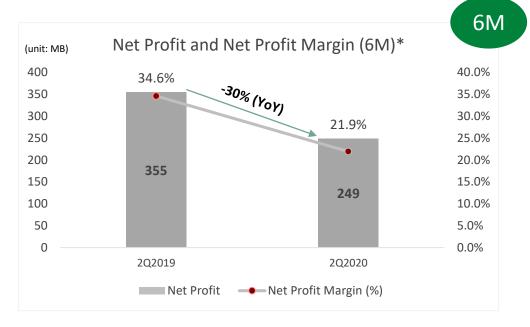
2Q2020 : EBITDA (3M) and (6M)

- 3-month period of 2Q2020: EBITDA increased to 438 MB or +18% (YoY) as compared to 2Q2019 which was 372 MB, and
- 6-month period of 2Q2020: EBITDA slightly decreased to 596 MB or -9% (YoY) as compared to 2Q2019 which was 653 MB. This was primarily due to the recognition of loss from exchange rate which occurred from loans in foreign currency of 167 MB in 1Q2020, whereas there was gain from exchange rate of 96 MB in 2Q2020. The record of Loss and Gain from exchange rate is such an accounting transaction and it does not have impact on the Company's cash flow and performance.

2Q2020: NET PROFIT and Net Profit Margin (3M) and (6M)







Note: *Equity attributable to owners of the parent

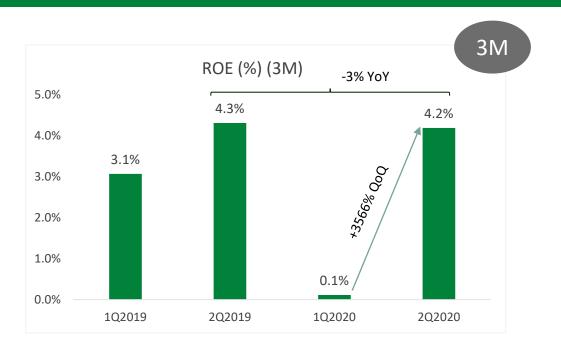
2Q2020: Net Profit and Net Profit Margin (3M) and (6M)*

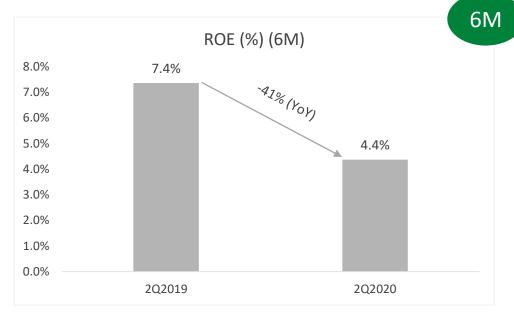
- 3-month period of 2Q2020: Net Profit increased to 242 MB or +16% (YoY) as compared to 2Q2019 which was 208 MB, and
- 6-month period of 2Q2020: Net Profit significantly decreased to 249 MB or -30% (YoY) as compared to 2Q2019 which was 355 MB.

 This was primarily due to the recognition of loss from exchange rate which occurred from loans in foreign currency of 71 MB in 2Q2020. However, the record of Loss from exchange rate is such an accounting transaction and it does not have impact on the Company's cash flow and performance.

2Q2020: ROE (3M) and (6M)







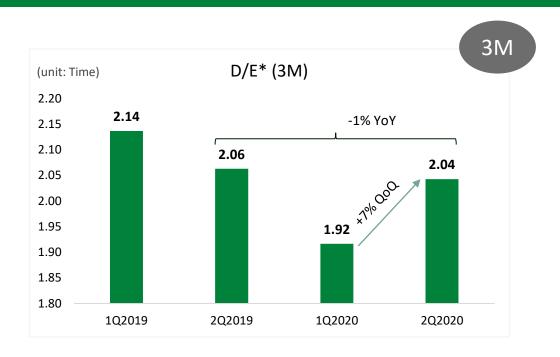
Note: *Average equity

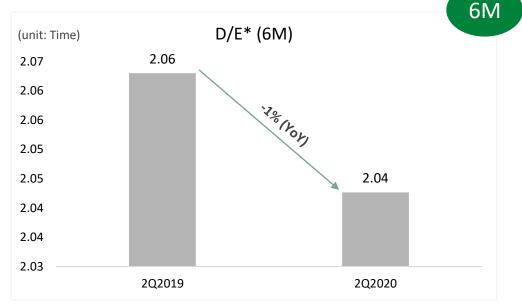
2Q2020 : ROE (3M) and (6M)

- 3-month period of 2Q2020: ROE slightly decreased to 4.2%, or -3% (YoY) as compared to 2Q2019 which was 4.3% MB, and
- 6-month period of 2Q2020: ROE significantly decreased to 4.4%, or -41% (YoY) as compared to 2Q2019 which was 7.4%. This was primarily due to the recognition of loss from exchange rate which occurred from loans in foreign currency of 71 MB in 2Q2020. The record of Loss and Gain from exchange rate is such an accounting transaction and it does not have impact on the Company's cash flow and performance.

2Q2020 : D/E RATIO (3M) and (6M)







Note: *Equity attributable to owners of the parent

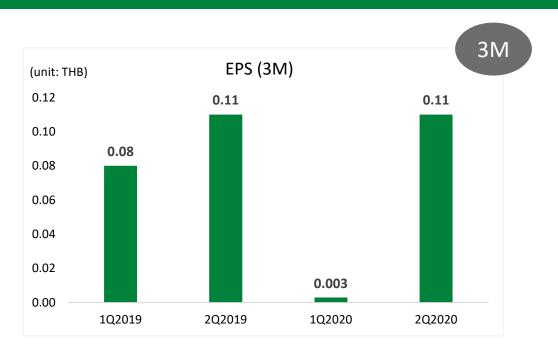
2Q2020 : D/E Ratio (3M) and (6M)

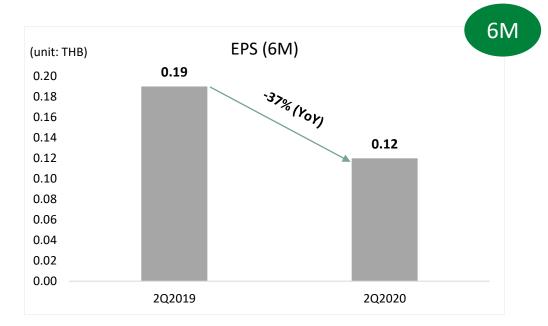
- 3-month period of 2Q2020: D/E slightly decreased to 2.04 times or -1% (YoY) as compared to 2Q2019 which was 2.06 times.
- 6-month period of 2Q2020: D/E slightly decreased to 2.04 times or -1% (YoY) as compared to 2Q2019 which was 2.06 times. This was primarily due to liabilities and equity* that were increased in 2Q2020 consistently.

Note: *Equity attributable to owners of the parent

2Q2020: EPS (3M) and (6M)





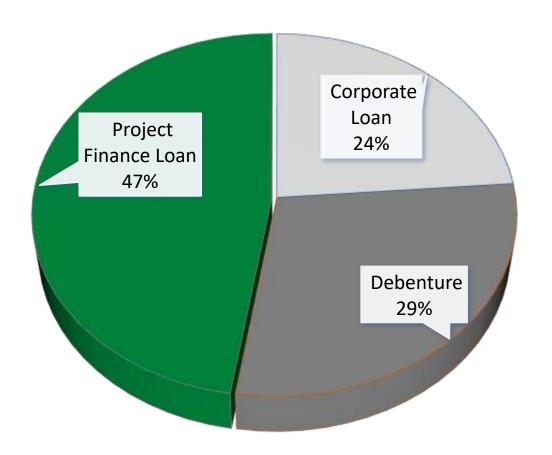


2Q2020 : EPS (3M) and (6M)

- 3-month period of 2Q2020: EPS was the same as compared to 2Q2019 which was 0.11 THB.
- **6-month period of 2Q2020:** EPS significantly decreased to 0.12 THB or -37% (YoY) as compared to 2Q2019 which was 0.19 THB. This was primarily due to the recognition of loss from exchange rate which occurred from loans in foreign currency of 71 MB in 2Q2020. Hence, it impacted on Net Profit.

DEBT STRUCTURE 2Q2020





Most of interest bearing debt from Corporate Loan for 53% (Corporate Loan for 24% and Debenture for 29%).

The remaining Project Finance Loan for 47%.

Unchanged due to loan drawdown in Onikoube project and repayment by schedule of current loan

40% of Project Finance Loan from COD project.

7% of Project Finance Loan from project underconstruction.





TSE's PROJECTS

- Solar Farms Thailand
- Solar Rooftop Thailand
- Biomass Thailand
- Solar Farm Japan
- Floating Solar Farm Thailand

TSE's Projects



CORE BUSINESSES Total 304.24 MWac (272.24 MWe)*

Solar PV Farms

(Total 24 projects) 260.04 MWac (228.04 MWe)*

Thailand

(Total 16 projects) 105.30 MWac (73.30 MWe)*

Japan

154.74 MWac

Solar Rooftops

(Total 14 projects) 14 MWac

Biomass

(Total 3 projects) 22.2 MWac

Floating Solar

(Total 1 project) 8 MWac

(Total 8 projects)









Note:

> 163.24 MWac (131.24 MWe)*: COD

under development & > 141.00 MWac:

under construction

*Remark: As of 31 August 2020

Equity Capacity Proportionate by ownership

(TSE holds 60% of SSE1).

Solar PV Farms - Thailand



Project	Selling Capacity (MWac)	Equity Capacity (MWe)	COD	Operated by	Power Purchase Rate	Tenor	Ownership	Tax Rate
10 plants: (SSE01 - SSE10) Partnership with GPSC (TSE 60%)	8 MW / plant (totaling 80 MWac)	8 MW / plant (totaling 48 MWe)*	2013 – 2014	TSR	Base Tariff + FT + Adder 6.5 THB/kWh (10 years from COD)	5 years with automatic renewal	60%	0% (year 0 – 8) 10% (year 9 - 13) 20% (year 14 - 25)
4 plants: (SLC, INS, BSE, BSS)	Totaling 13 MWac	Totaling 13 MWac	2015, 2016, 2018	SV	FiT 4.12 B. FiT 5.66 B.	25 years	100%	0% (year 0 - 8) 20% (year 9 - 25)
1 plant (SSP) Ang Thong	8 MWac	8 MWac	2013	SV	Base Tariff + FT + Adder 8 THB/kWh (10 years from COD)	5 years with automatic renewal	100%	0% (year 0 – 8) 10% (year 9 - 13) 20% (year 14 - 25)
1 plant (EES) Krabi	4.3 MWac	4.3 MWac	29-Dec-18	SV	FiT 4.12 B.	25 years	100%	0% (year 0 - 8) 20% (year 9 - 25)
Total <u>16</u> projects	105.30	<u>73.30*</u>						

*Remark: As of 31 August 2020

Solar PV Farms – Thailand





Krabi

Krabi

4.3 MW

29 DEC 2018

EES (Acquisition in JUL 2020)

Location:

COD:

Selling Capacity:

Prachuap Kirikhan

SLC

Location: Bang Saphan
Selling Capacity: 1.0 MW
COD: 29 DEC 2016

Udornthani

BSE (Acquisition in AUG 2019)

Location: Udornthani
Selling Capacity: 5.0 MW
COD: 12 DEC 2018

Ang Thong

INS

Location: Ang Thong
Selling Capacity: 2.0 MW
COD: 28 DEC 2015

SSP (Acquisition in NOV 2019)

Location: Ang Thong
Selling Capacity: 8.0 MW
COD: 29 MAR 2013

Ayutthaya

BSS (Acquisition in MAR 2019)

Location: Ayutthaya
Selling Capacity: 5.0 MW
COD: 26 DEC 2016

Kanchanaburi

SSE1-PV01

Location: Bo Phloi Selling Capacity: 8.0 MW COD: 4 SEP 2013

SSE1-PV06

Location: Dan Makham Tia
Selling Capacity: 8.0 MW
COD: 6 JUNE 2014

SSE1-PV07

Location: Ta Muang
Selling Capacity: 8.0 MW
COD: 20 MAR 2014

SSE1-PV08

Location: Panom Tuan
Selling Capacity: 8.0 MW
COD: 6 JUNE 2014

Suphanburi

SSE1-PV02

Location: Don Chedi Selling Capacity: 8.0 MW COD: 17 JUL 2013

SSE1-PV03

Location: Nong Ya Sai
Selling Capacity: 8.0 MW
COD: 28 OCT 2013

SSE1-PV04

Location: Doem Bang Nang Buet Selling Capacity: 8.0 MW

COD: 21 NOV 2013

SSE1-PV05

Location: Doem Bang Nang Beut Selling Capacity: 8.0 MW

COD: 21 NOV 2013

SSE1-PV09

Location: U Thong
Selling Capacity: 8.0 MW
COD: 9 APR 2014

SSE1-PV10

Location: Sam Chuk
Selling Capacity: 8.0 MW
COD: 30 MAY 2014

*Remark: As of 31 August 2020

Equity Capacity Proportionate by ownership (TSE holds 60% of SSE1).

Solar PV Farms – Thailand





SSE1-PV01 (8MW) COD SEP 2013



SSE1-PV02 (8MW) COD JUL 2013



SSE1-PV03 (8MW) COD OCT 2013



SSE1-PV04 (8MW) COD NOV 2013



SSE1-PV05 (8MW) COD NOV 2013



SSE1-PV06 (8MW) COD JUN 2014



SSE1-PV07 (8MW) COD MAR 2014



SSE1-PV08 (8MW) COD JUN 2014



SSE1-PV09 (8MW) COD APR 2014



SSE1-PV10 (8MW) COD MAY 2014



SLC (1MW) COD DEC 2016



INS (2MW) COD DEC 2015



BSS (5MW) COD DEC 2016



BSE (5MW) COD DEC 2018



SSP (8MW) COD MAR 2013



EES (4.3 MW) COD DEC 2018



*Remark: As of 31 August 2020

Equity Capacity Proportionate by ownership

(TSE holds 60% of SSE1).

Solar PV Rooftop - Thailand



Project	Selling Capacity (MWac)	COD	Operated by	Power Purchase Rate	Tenor	Ownership	Tax Rate
14 plants (TSER01 - TSER14) Partnership with HomePro and The Mall	1 MW / plant (totaling 14 MWac)	2014 – 2015	TSER	FiT 6.16 Baht	25 years	100%	0% (year 0 – 8) 10% (year 9 - 13) 20% (year 14 - 25)

Total: 14 projects

14 MWac



Solar PV Rooftop - Thailand





North Metropolitan

TSER-RT03

Location: Nakorn Sawan

Selling Capacity: 1.0 MW COD: JUN 2015

TSER-RT01

Location: Lopburi
Selling Capacity: 1.0 MW
COD: SEP 2014

North East

TSER-RT09

Location: Khao Yai
Selling Capacity: 1.0 MW
COD: NOV 2014

TSER-RT08

Location: Ubon Ratchathanee

Selling Capacity: 1.0 MW COD: MAR 2015



North

TSER-RT02

Location: Phrae
Selling Capacity: 1.0 MW
COD: FEB 2015

South

TSER-RT04

Location: Chumporn
Selling Capacity: 1.0 MW
COD: SEP 2014

TSER-RT05

Location: Surat Thani
Selling Capacity: 1.0 MW
COD: DEC 2014

TSER-RT06

Location: Nakhon Si Thammarat Selling Capacity: 1.0 MW

COD: JUL 2015

TSER-RT07

Location: Hat Yai
Selling Capacity: 1.0 MW
COD: OCT 2015

Bangkok

TSER-RT10

Location: Ekamai – Ramindra

Selling Capacity: 1.0 MW COD: FEB 2015

TSER-RT11

Location: Ratchapruek
Selling Capacity: 1.0 MW
COD: NOV 2014

TSER-RT12

Location: Thapra
Selling Capacity: 1.0 MW
COD: JUL 2015

TSER-RT13

Location: Bangkapi Selling Capacity: 1.0 MW COD: JUL 2015

TSER-RT14

Location: Ngamwongwan Selling Capacity: 1.0 MW

COD: AUG 2015

Solar PV Rooftop - Thailand





RT-01 Lopburi COD SEP 2014



RT-02 Phrae COD FEB 2015



RT-03 Nakorn Sawan COD JUN 2015



RT-04 Chumporn COD SEP 2014



RT-05 Surat Thani COD DEC 2014



RT-06 Nakhon Si Thammarat COD JUL 2015



RT-07 Hat Yai COD OCT 2015



RT-08 Ubon Ratchathanee COD MAR 2015



RT-09 Khao Yai COD NOV 2014



RT-10 Ekamai-Ramindra COD FEB 2015



RT-11 Ratchapruek COD NOV 2014



RT-12 Thapra COD JUL 2015



RT-13 Bangkapi COD JUL 2015



RT-14 Ngamwongwan COD AUG 2015



Biomass - Thailand

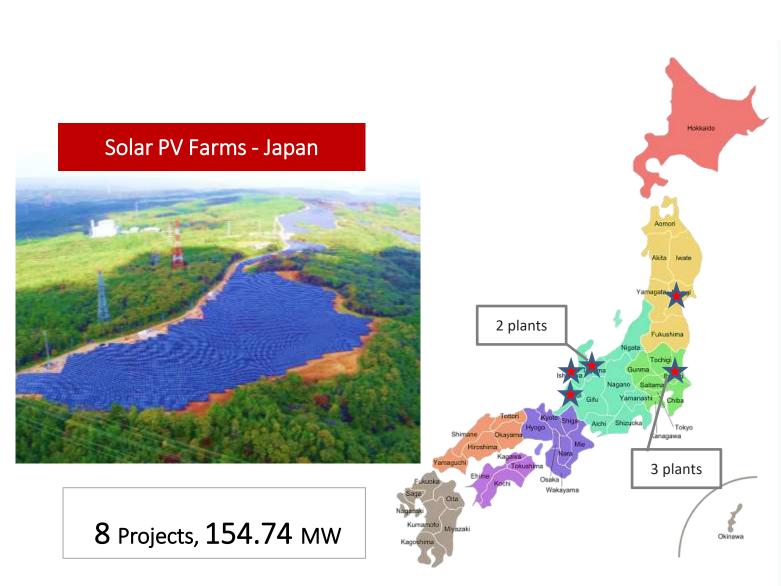




3 Projects, 22.2 MW

	Project Summary			
Project:	BSW	OSW1 & OSW2		
Selling Capacity:	4.6 MW	8.8 MW / plant		
COD:	MAR 2018	OSW1 – AUG 2018 OSW2 – OCT 2018		
Operated by:	TCE			
Power Purchase Rate:	FiT 4.24 Baht + Premium 0.30 THB (8 years)			
Tenor:	20 years	15Y4M		
Customer:	PEA*			
Ownership:	100%			
Tax Rate:	0% (year 0 – 8) 20% (year 9-20)	0% (year 0 – 8) 20% (year 9 – 15Y4M)		
Location:	Surat Thani	Nakhon Si Thammarat		





Project Summary

• Projects: 8 Plants

Selling Capacity: totaling 154.74 MW

Operated by: TSEO

• Power Purchase Rate: FiT JP¥ 32 – 36

• Tenor: 20 years

• Customers: 1. TOPCO* - Onikoube

2. TEPCO** - Ibaraki

3. HEPCO*** - Hokuriku

Ownership: 100%

• Tax Rate: 0% (CIT 20 years)

20 years 20.42%

(WHT on allocation)

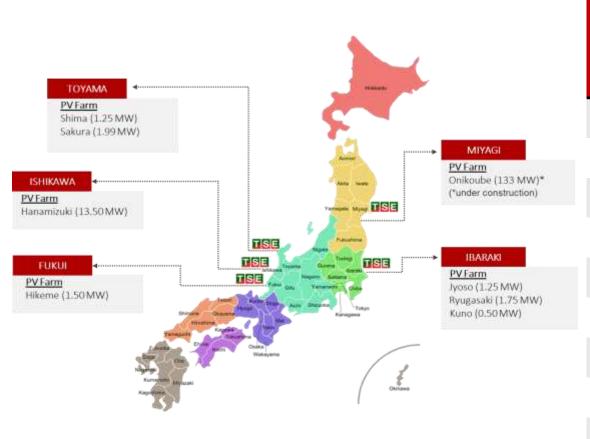
^{*} Tohoku Electric Power Company (TOPCO)

^{**} Tokyo Electric Power Company (TEPCO)

^{***} Hokuriku Electric Power Company (HEPCO)



Solar PV Farms - Japan



Project Site	Location	Company	Installed Capacity (MW)	Selling Capacity (MW)	Feed-in- Tariff	COD
Kuno	Ibaraki	TSI	0.65	0.50	36 Yen	31/8/2015
Shima	Toyama	TSI	1.43	1.25	32 Yen	2/3/2016
Hikeme	Fukui	TSI	1.86	1.50	32 Yen	1/4/2016
Ryugasaki	Ibaraki	TSI	2.36	1.75	36 Yen	1/9/2016
Sakura	Toyama	TSI	2.55	1.99	32 Yen	2/11/2017
Jyoso	Ibaraki	TSI	1.59	1.25	36 Yen	2/5/2018
Hanamizuki	Ishikawa	TSI	18.1	13.50	36 Yen	2/1/2019
Onikoube	Miyagi	OSP	147.00*	133.00*	36 Yen	4Q2022
	Total		175.54	154.74		

(*under construction)





Toyama

Shima

Selling Capacity: 1.25 MW
COD: 2 MAR 2016
FiT: JP¥ 32
Operated by: TSI

Sakura

Selling Capacity: 1.99 MW
COD: 2 NOV 2017
FiT: JP¥ 32
Operated by: TSI

Ishikawa

Hanamizuki

Selling Capacity: 13.5 MW
COD: 2 JAN 2019
FiT: JP¥ 36
Operated by: TSI

Ibaraki

Jyoso

Selling Capacity: 1.25 MW
COD: 2 MAY 2018
FiT: JP¥ 36
Operated by: TSI

Ryugasaki

Selling Capacity: 1.75 MW
COD: 1 SEP 2016
FiT: JP¥ 36
Operated by: TSI

Kuno

Selling Capacity: 0.5 MW
COD: 31 AUG 2015
FiT: JP¥ 36
Operated by: TSI

Miyagi

Onikoube

Selling Capacity: 133 MW SCOD: Q4 2022 FiT: JP¥ 36 Operated by: OSP

Status: Under Construction

Ishikawa

Hikeme

Selling Capacity: 1.5 MW
COD: 1 APR 2016
FiT: JP¥ 32
Operated by: TSI





Kuno (0.5 MW) COD AUG 2015



Shima (1.25 MW) COD MAR 2016



Hikeme (1.50 MW) COD APR 2016



Hanamizuki (13.5 MW) COD JAN 2019



Ryugazaki (1.75 MW) COD SEP 2016



Sakura (1.99 MW) COD NOV 2017



Jyoso (1.25 MW) COD MAY 2018



Onikoube (133 MW)* SCOD 4Q2022 (*under construction)



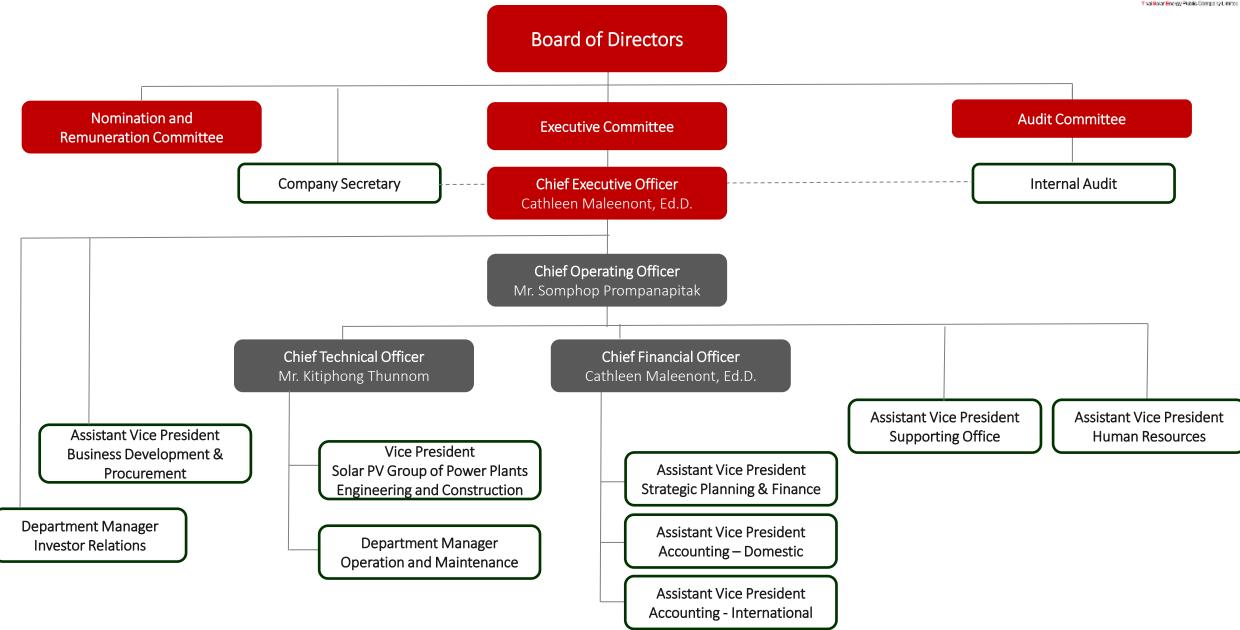


APPENDIX

- Organization Structure
- Board of Directors and Audit
 Committee
- Investment Structure

ORGANIZATION STRUCTURE





BOARD OF DIRECTORS and AUDIT COMMITTEE



BOARD OF DIRECTORS:

Chairman of Board of Directors: Cathleen Maleenont Ed., D.

Vice Chairman + Independent Director: Mr. Prommin Lertsuridej

Independent Director:
Mr. Pala Sookawesh

Independent Director +

Chairman of Audit Committee: Mrs. Siripen Sitasuwan

Independent Director +

Chairman of Nomination and

Remuneration Committee: Mr. Prasan Chuapanich

Independent Director:
Mr. Aran Apichari

Director:
Mr. Somphop Prompanapitak

Director: Mrs. Angkanee Rerksirisuk

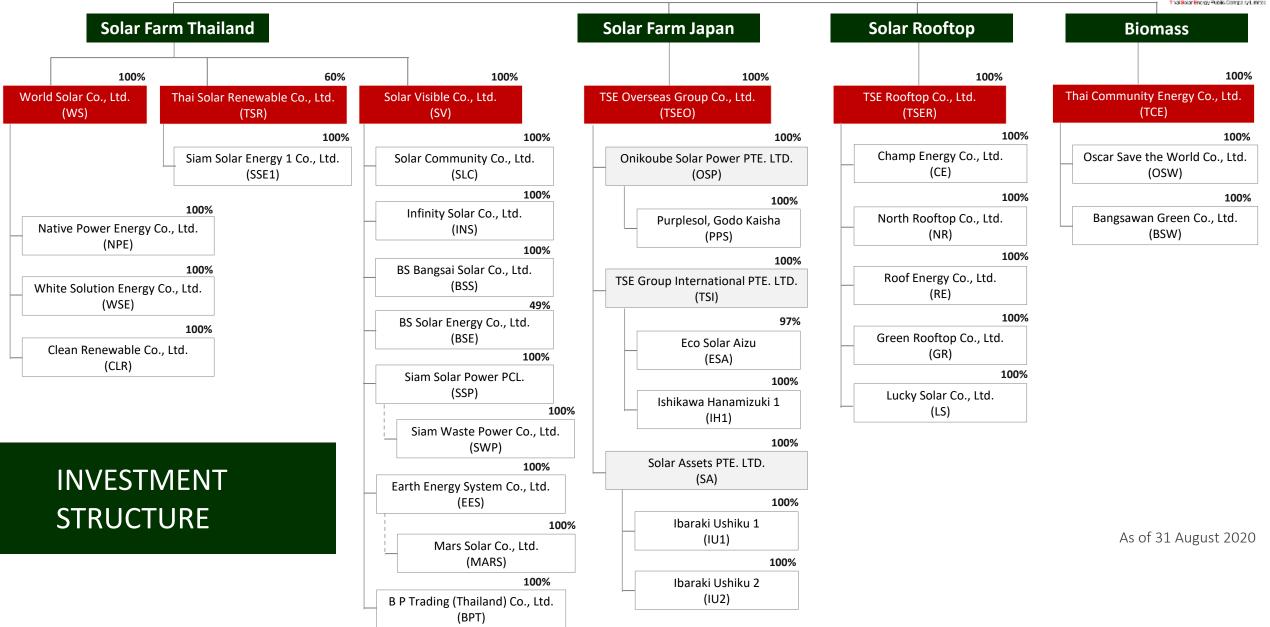
Director:
Mr. Masthawin Charnvirakul

AUDIT COMMITTEE:

- Chairman of Audit Committee + Independent Director:
 - Mrs. Siripen Sitasuwan
- Member of Audit Committee + Independent Director:
 - Mr. Prasan Chuapanich
- Member of Audit Committee and Independent Director:
 - Mr. Pala Sookawesh

Thai Solar Energy Public Company Limited







THANK YOU

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