

Thai Solar Energy Public Company Limited

# TSE PRESENTATION 1Q2022

(AS OF MAY 2022)



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# AGENDA

### 1. COMPANY OVERVIEW

- 2. FINANCIAL HIGHLIGHTS OF 1Q2022
- 3. OUTLOOK

4. APPENDIX



# VISION and MISSION

### 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 energies as well as developing an international solar power business focusing in Asia & Oceania regions.



# COMPANY OVERVIEW

1.

Summary of Corporate Information



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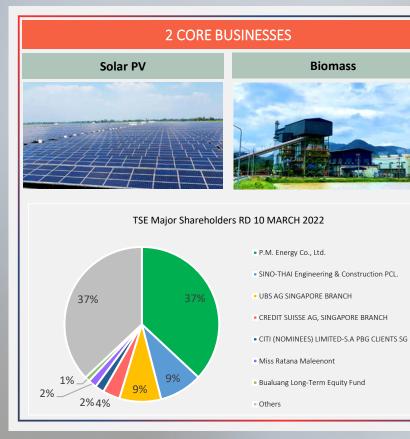
# COMPANY OVERVIEW

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.

# COMPANY OVERVIEW



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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 Rating:		
Credit Rating:		
BBB- stable		

# MILESTONES



2008 - 2014	2015 – 2017	2018 - 2019	2020 – 2021	2022 – onward
Solar Farms + Rooftops (TH)	Solar Farms (JP) + Biomass (TH)	Merger & Acquisition	Private PPA	Exploring Investment Opportunity overseas + Expanding Private PPA
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 on 30 OCT 2014 > COD Solar PV TH 5 projects* (40 MW) *Partnership with GPSC (TSE 60%) > COD Solar Rooftop 5 Projects (5 MW) 2015: Solar Rooftop 5 Projects (5 MW)	<ul> <li>2015: &gt; Expanded TSE's business operation in Japan</li> <li>&gt; COD Solar PV JP 1 project (0.5 MW)</li> <li>&gt; COD Solar Rooftop 9 projects (9 MW)</li> <li>2016: &gt; COD Solar PV "SLC" 1 project (1 MW)</li> <li>&gt; COD Solar PV JP 4 projects (6.49 MW)</li> <li>&gt; Invested in Biomass 3 projects</li> <li>2017: &gt; Large Investment in Japan "Onikoube" project (147 MWp)</li> </ul>	<ul> <li>2018: &gt; COD Biomass 3 projects (22.2 MW)</li> <li>&gt; COD Solar PV JP: Jyoso (1.25 MW)</li> <li>&gt; Acquired a new project "INS" in Ang Thong province (2.0 MW) in OCT 2018</li> <li>2019: &gt; COD Solar PV JP: Hanamizuki (13.5 MW)</li> <li>&gt; Fully Operate Biomass 3 projects (22.2 MW)</li> <li>&gt; Moved to SET on 14 MAY 2019</li> <li>&gt; Capital Increase to 2,117.7 MB. completely in OCT 2019. Note: TSR 212 million shares Total 530 MB.</li> <li>&gt; Acquired:</li> <li>1. "BSS" in Ayutthaya province (5 MW) in MAR 2019</li> <li>2. "BSE" in Udornthani province (5 MW) in AUG 2019</li> <li>3. "SSP" in Ang Thong province (8 MW) in NOV 2019</li> </ul>	<ul> <li>2020: &gt; Start project "Onikoube" Construction and receive project loan from BBL</li> <li>&gt; Invested in a Floating Solar PV farm project in Prachinburi province (8.0 MW) in JUN 2020</li> <li>&gt; Acquired: "EES" in Krabi province (5.0 MW) in JUL 2020</li> <li>&gt; Disposed: "BSE" in Udornthani province (5.0 MW) in SEP 2020</li> <li>2021 &gt; COD Floating Solar PV project (8 MWp) since 25 May 2021</li> <li>&gt; Disposed investment in 6 small Solar Farms in Japan (totaling 8.24 MW) in SEP 2021</li> </ul>	2022: > Divested in a solar farm "Hanamizuki" 13.5 MW in Japan in MAR 2022 > SCOD "Onikoube" project (147 MWp) 4Q2022 With the second secon

# **BOARD OF DIRECTORS**





Dr. Prommin Lertsuridej

Vice Chairman, Chairman of Nomination and Remuneration Committee, and Independent Director



Mr. Pala Sookawesh

Independent Director



Mr. Somphop Prompanapitak

Director



Mr. Prasert Patradhilok Independent Director and Chairman of Audit Committee



Mrs. Angkanee Rerksirisuk Director



Mr. Aran Apichari Independent Director



Mr. Masthawin Charnvirakul Director



#### Cathleen Maleenont, Ed.D.

#### Chairman of Board of Directors

#### AUDIT COMMITTEE



Mr. Prasert Patradhilok

Chairman of Audit Committee and Independent Director



Mr. Pala Sookawesh

Member of Audit Committee and Independent Director



#### Dr. Praphan Subsang

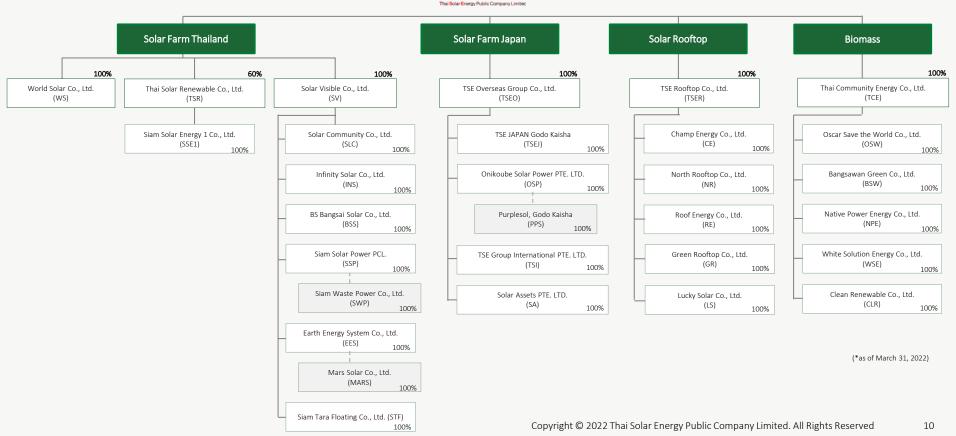
Member of Audit Committee and Independent Director



# **COMPANY STRUCTURE**

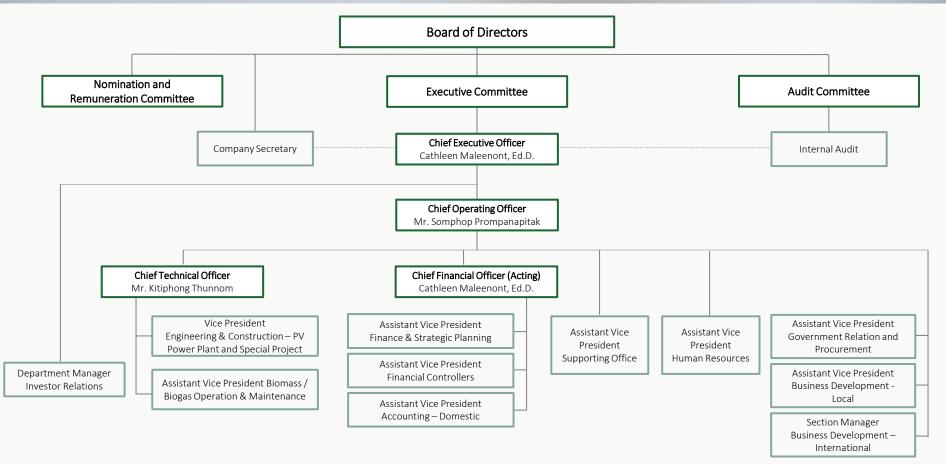






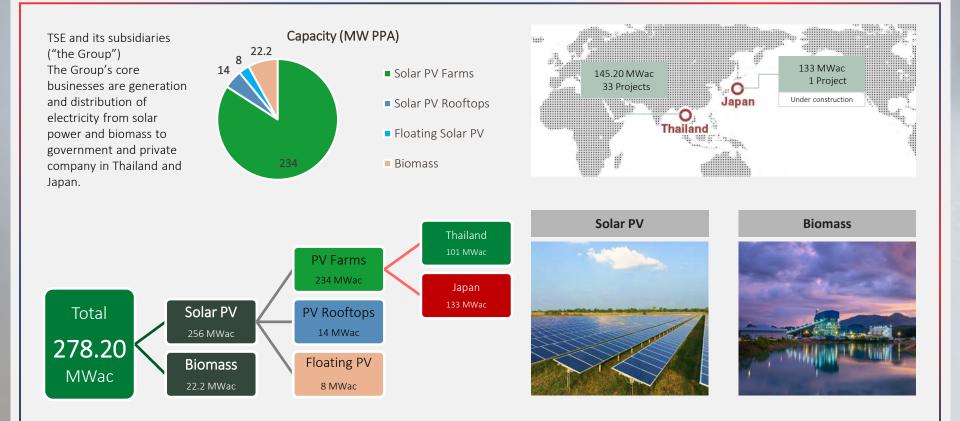
# ORGANIZATION STRUCTURE





# CORE BUSINESS







# FINANCIAL HIGHLIGHTS OF

2.

# 1Q2022

Summary of TSE's Financial Performance



# HIGHLIGHTS OF 1Q2022



100% divestment of "Hanamizuki" with a total contract capacity of 13.5 MW (a total installed capacity of 18.1 MW) in Japan.

The total enterprise value was JP¥ 2,101 million or approximately THB 603 million.

### INCOME STATEMENT 1Q2022



Ctatement of Communication Income	Consolidated	Consolidated (Unit: Thousand Baht)		
Statement of Comprehensive Income	1Q2022	1Q2021	% Change	
Revenue				
Electricity Sales	322.71	359.47	-10.23%	
Management Fee	12.53	11.93	5%	
Total Revenue	335.24	371.40	-9.74%	
COGs	(231.52)	(269.81)	-14%	
Gross Profit	103.73	101.60	2%	
Other Income	1.87	1.98	-5%	
Administrative Expenses	(77.78)	(47.45)	64%	
Other gains (losses)	215.14	43.91	390%	
Finance costs	(78.30)	(84.69)	-8%	
Share of Profit from joint ventures	177.44	187.40	-5%	
Profit before Income Tax	342.10	202.74	69%	
Income Tax	(3.15)	(0.22)	1353%	
Net Profit from Operation	338.94	202.53	67%	
Currency translation differences	(353.66)	(142.66)	148%	
Change in fair value of hedging derivatives		11.37	100%	
Total Comprehensive Income	(14.72)	71.23	-121%	
Profit Attributable to:				
Owners of the Parent	338.94	202.57	67%	
Non-Controlling Interests		(0.04)	-100%	
	<u>338.94</u>	<u>202.53</u>	67%	
Total Comprehensive Income Attributable to:				
Owners of the Parent	(14.72)	71.29	-121%	
Non-Controlling Interests		(0.05)	-100%	
	<u>(14.72)</u>	71.23	-121%	

### TOTAL REVENUE 1Q2022

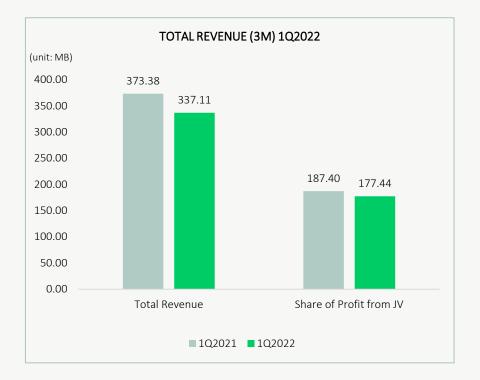


#### TOTAL REVENUE

Total Revenue in 1Q2022 decreased to 337.11 MB or -9.71% as compared to 1Q2021 of 373.38 MB. This was mainly due to disposal of investment in 7 Solar PV Farm projects (totaling 21.74 MW) in Japan since 3Q2021 (6 projects) and 1Q2022 (1 project). In the meantime, the Company has revenue increased from a Floating Solar PV project in Prachinburi Province, Thailand which started to COD since May, 2021.

#### SHARE OF PROFIT FROM JV

 Share of profit from JV in 1Q2022 decreasing to 177.44 MB or -5.32% as compared to 1Q2021 of 187.40 MB. This was due to increase in corporate income tax of the projects that gradually expired tax privileges from the Board of Investment under investment promotion certificates.



### EBITDA and NET PROFIT 1Q2022

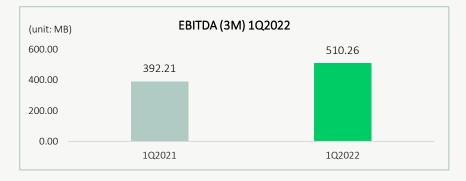


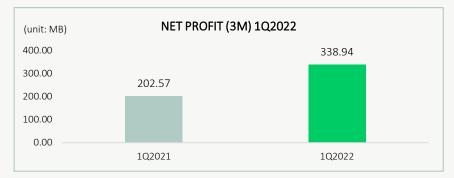
#### EBITDA

 EBITDA in 1Q2022 increased to 510.26 MB or +30.10% as compared to 1Q2021 of 392.21 MB. This was due to an increase in the other gains of divestment in 13.5 MW Solar PV Farm project ("Hanamizuki") in Japan and a decrease in Finance Costs.

#### **NET PROFIT**

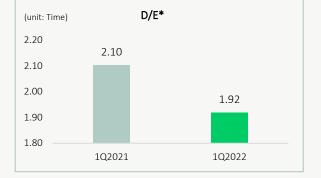
Net Profit attributable to owners of the parent in 1Q2022 significantly increased to 338.94 MB or +67.33% as compared to 1Q2021 of 202.57 MB. This was mainly due to the gains from disposal of investment in 13.5 MW Solar PV Farm project ("Hanamizuki") in Japan amounting to 234.44 MB.





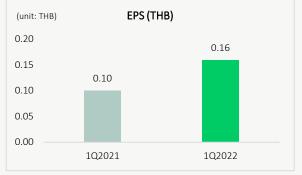
### D/E RATIO, EPS, and ROE 1Q2022





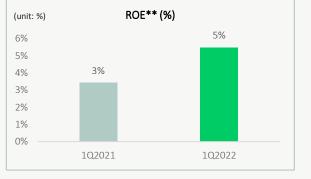
#### D/E\* RATIO

 D/E\* Ratio in 1Q2022 decreased to 1.92 times or -8.74% as compared to 1Q2021 of 2.10 times. This was mainly due to a decrease in liabilities from divestment in 7 Solar PV Farm projects in Japan. Besides, Equities in 1Q2022 was increased due to the increase in the other gains.



#### EPS

 EPS in 1Q2022 increased to 0.16 Baht or +60% as compared to 1Q2021 of 0.10 Baht. This was also primarily due to the other gains from disposal of investment in 13.5 MW Solar PV
 Farm project ("Hanamizuki") in Japan amounting to 234.44 MB.



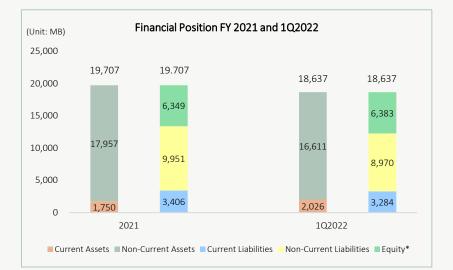
#### ROE\*\*

 ROE in 1Q2022 increased to 5% or +59.61% as compared to 1Q2021 of 3%. This was due to the same reason of the other gains from divestment in 13.5 MW Solar PV Farm in Japan.

Note: \*Equity attributable to owners of the parent \*\* Average Equities

### FINANCIAL POSITION 1Q2022





FINANCIAL POSITION	FY2021	1Q2022	+/- (%)
Assets	19,707	18,637	-5%
Liabilities	13,358	12,254	-8%
Equities*	6,349	6,383	1%
D/E* Ratio (times)	2.10	1.92	-9%

Note: \*Equity attributable to owners of the parent

#### **FINANCIAL POSITION**

#### Total Assets:

Decreasing from 19,707 MB to 18,637 MB, or -5%.

Total Liabilities:

Decreasing from 13,358 MB to 12,254 MB, or -8%.

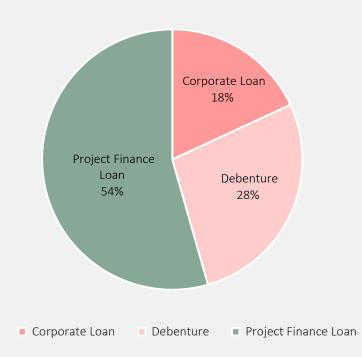
Equity Attributable to owners of the parent:

Increasing from 6,349 MB to 6,383 MB or +1%.

 At the end of 1Q2022, Total Assets and Total Liabilities were decreased due to divestment of 7 Solar PV Farm projects since 3Q2021 (6 projects) and in 1Q2022 (1 project) in Japan. Whereas, the Equity Attributable to owners of the parent increased as a result of an increase Net Profit that the Company recognized the other gains from the divestment of 13.5 MW Solar PV Farm in Japan in 1Q2022.

# DEBT STRUCTURE 1Q2022





#### **SUMMARY**

Most of interest bearing debt from Project Finance Loan for 54%, increased from Onikoube Project Finance Loan drawdown.

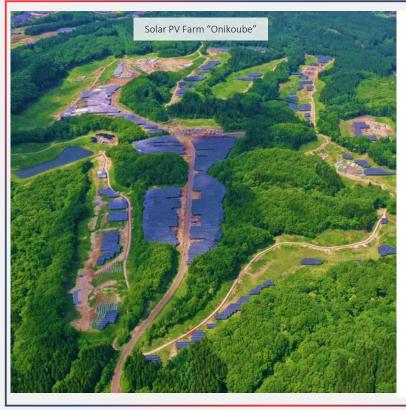
28% of Project Finance Loan from COD projects decreased accordingly from schedule repayment.

The remaining interest bearing debt from Corporate Loan and Debenture for 46% decreased from schedule repayment.

# PROJECT UPDATE

Project Finance by:





#### Purchase Rate - FiT 36 JP¥

Summary of "Onikoube" Project			
Installed Capacity (MWp): Selling Capacity (MWac):	147 133		
Purchase Rate (FiT JP¥): Location:	36 Miyagi Province	36 Miyagi Province, Japan	
Off-taker: SCOD:	Tohoku Utility 4Q2022		
Status: Operated by:	Under construc OSP	Under construction OSP	
Start Project Construction:	In April, 2020	In April, 2020	
Project Components			
EPC by:	TOSHIBA	TOSHIBA	
PV Module by:	Trina Solar	Trinasolar	
Inverter by:	Huawei	Huawei 🐝	
Financing			

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BBL (THB 8.6 bn.)

# CONSTRUCTION UPDATE





Overall module installation completed more than 50%. Microwave tower and grid tower erection has been completed, but equipment installation to be proceeded in later stage.

In the snow season, construction work has been suspended. EPC could only do minor cable wiring work hence the progress in the past three months was slow. EPC resumes work in spring, focusing on module installation. The construction of OM site office has been started as well.



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# OUTLOOK

Summary of TSE's Business Outlook

And Investment Plan

# OUTLOOK



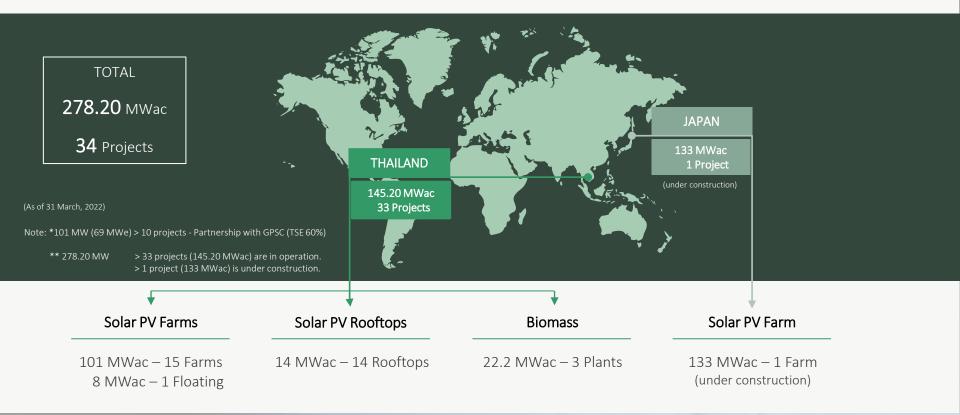






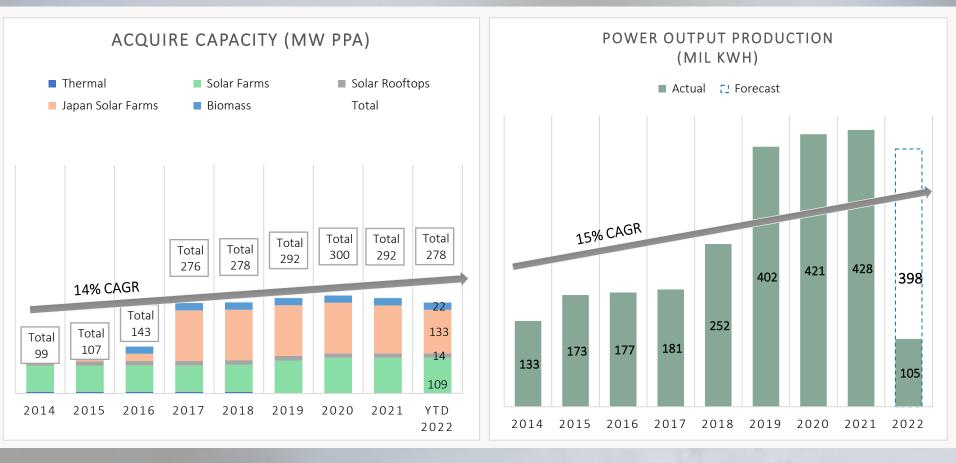
### TSE's PROJECTS





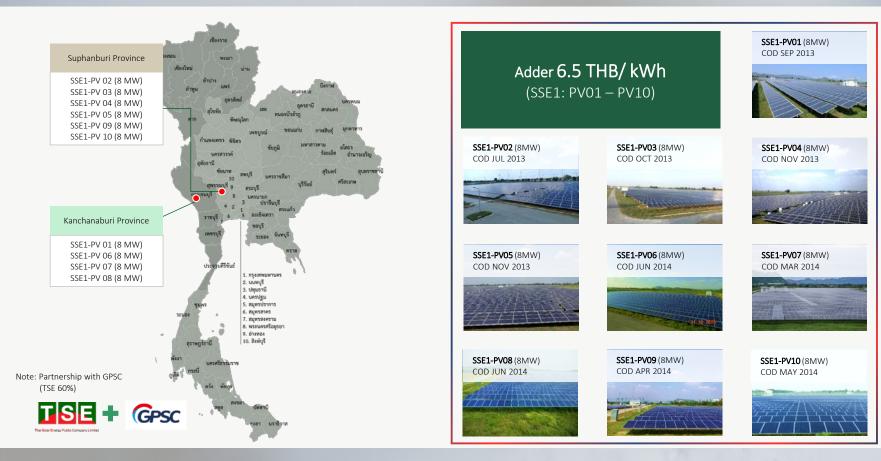
### CAPACITY GROWTH





### SOLAR PV FARMS (THAILAND) : 10 Projects (80 MWac) with GPSC





### SOLAR PV FARMS (THAILAND) : 6 Projects (29 MWac)

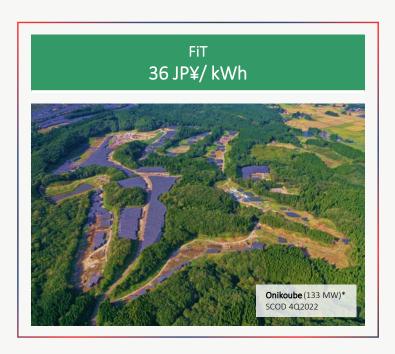




### SOLAR PV FARMS (JAPAN) : 1 Project (133 MWac)







As of March 31, 2022

### FLOATING SOLAR PV FARM (THAILAND) : 8 MWac



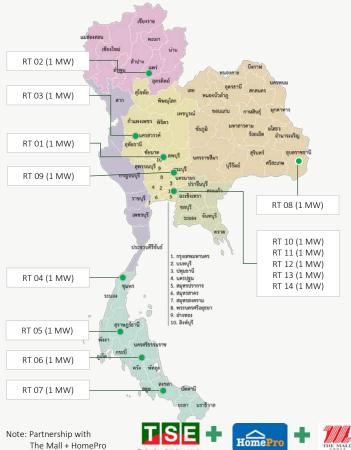


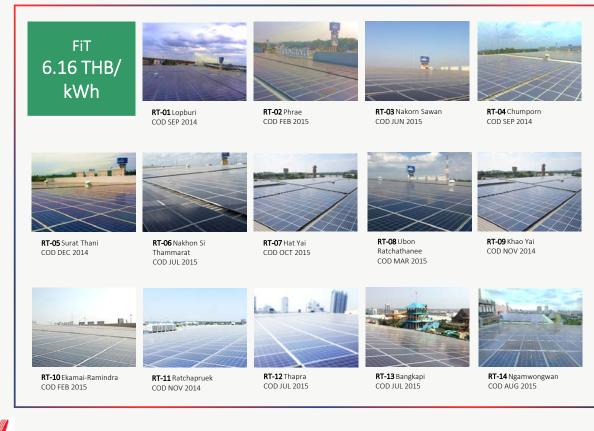
#### Private PPA 25 Years

Summary of "Siam Tara Floating" 8 MWp Project			
Installed Capacity (MWp):	8		
Selling Capacity (MWac):	8		
РРА Туре:	Private PPA		
PPA Period:	25 years		
Location:	Kabinburi Industrial Zone (KIZ), in Prachinburi Province		
Off-Taker:	Arcelik Hitachi Home Appliances (Thailand) Ltd.		
COD:	25 MAY 2021		
Operated By:	SV (TSE's subsidiary)		
Investment:	June, 2020		
Project Components			
PV Module by:	Trina Solar	Trinasolar	
Floating material and Mounting structure:	SCG Thailand	SCG	
Inverter by:	String type - Huawei	MUAWEI	
Electrical apparatus:	Switchgear - Siemens, Transformer – Ekarat		

### SOLAR PV ROOFTOPS (THAILAND): 14 Projects (14 MWac)

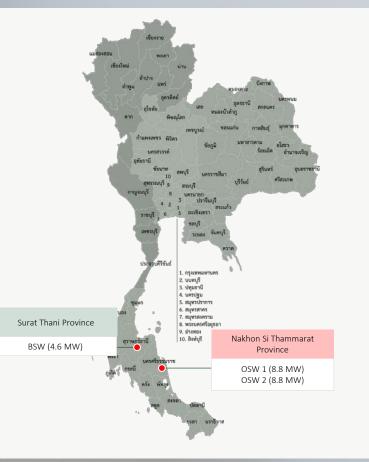






### BIOMASS (THAILAND): 3 Projects (22.2 MWac)









Thai Solar Energy Public Company Limited

# THANK YOU

MAY, 2022