

SPCG Public Company Limited: THE PIONEER OF SOLAR FARM AND

SOLAR ROOF DEVELOPER IN THAILAND AND ASEAN COMMUNITY



CORPORATE STRUCTURE





(Khon Kaen 9)

Co., Ltd.

Solar Power

(Surin 3)

Co., Ltd.

Solar Power

(Sakon

Nakhon 2) Co., Ltd.

Co., Ltd.

AJ Technology

Co., Ltd.

(Surin 2)

Co., Ltd.

(Surin 1)

Co., Ltd.

(Khon Kaen 6)

Co., Ltd.

(Khon Kaen 10)

Co., Ltd.

Government of Thailand

SPCG Timeline



Acquiring 36 PPAs, 260 MW

SPCG listed in the Stock Exchange of **Thailand** (Backdoor listing)



SPCG Completed 36 Solar farms 260 MW

Expanded investment 480 MW in Ukujima, Japan (≈2,600 MB) (1st & 2nd injection: 1,268 MB)

SPCG targeted solar energy production in 2050 not less than 2,000 MW



2007 2009 2010 2011 2013 2014

2018

2021 2020

2050

Announced target of Solar PV 500 MW with Adder policy, first time in Thailand & ASEAN

Successfully developed first Solar Farm of 6 MW in Thailand & ASEAN

Being pioneer of Solar Roof business in Thailand & ASEAN

Expanded investment 30 MW in Tottori. Japan

Expanded investment 500 MW in Eastern **Economic Corridor** Special Development Zone ("EEC")

(≈23,000 MB)

Expanded investment 67 MW in Fukuoka, Japan (≈ 95 MB)

Business Overview

Solar Farm

Solar Roof

Steel Roof

SMA Sales & Service Authorized Partner



Investment and development of Solar Farm / Engineering, Procurement and Construction (EPC) / Operation, Maintenance and Monitoring (OM&M)



Full service in the design and installation of solar roof systems



Steel Roof and Roof Structure with one-stop service



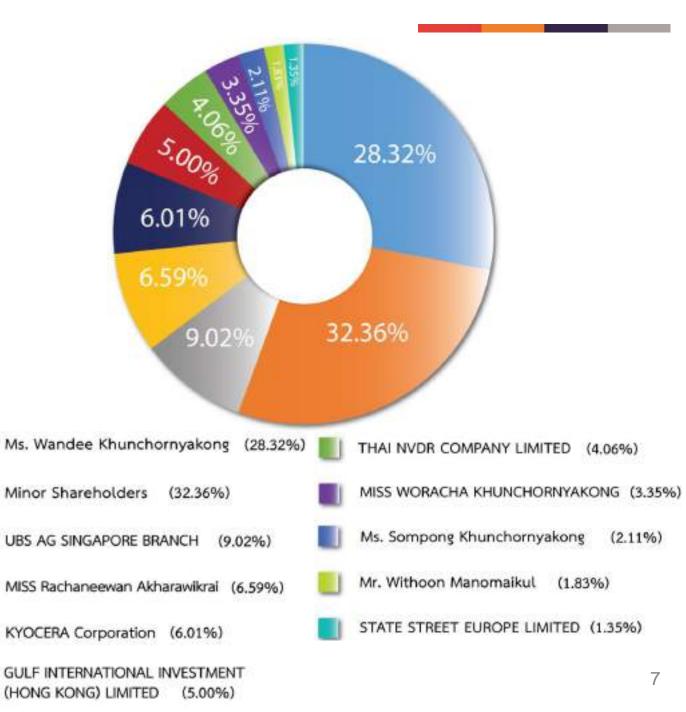
Authorized Sales and Service
Partner of SMA Solar Technology
AG (SMA), Germany

STOCK INFORMATION



SPCG Public Company Limited

Stock	SPCG
Market	SET
Industry	Resources
Sector	Energy & Utilities
First Trade Date	December 20, 2005
Authorized Capital	1,153,189,000.00 Baht
Paid-up Capital	1,055,790,000.00 Baht
Major Shareholders	67.64 % (Record date on August 30, 2021)
Minor Shareholders	32.36 % (Record date on August 30, 2021)
Dividend Policy	Not less than 40 percent of net profit of the separate financial statement after legal reserve in compliance with the company regulations and laws (with additional conditions)



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SOLAR FARM BUSINESS





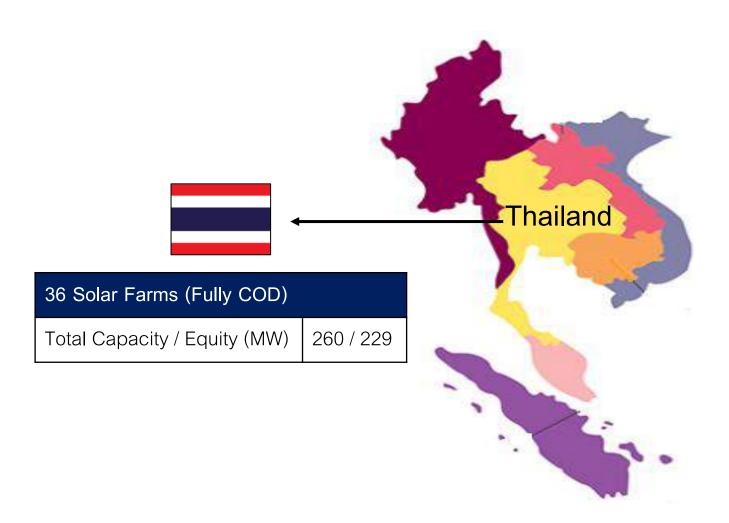
Benefits

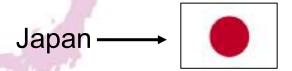
Solar Farm Business

- Renewable resource and energy security.
- Reduces carbon dioxide emissions which is the cause of global warming.
- Low maintenance costs, highly efficient and sustainability of solar panels of Kyocera, Japan with 25 years warranty.
- All our solar farms are supported by government sector, Adder rate.



Solar Farms - Total Capacity





1. Tottori (Fully COD)		
Total Capacity / Equity (MW)	30 / -	
2. Ukujima (Developing)		
Total Capacity / Equity (MW)	480 / 86	
3. Fukuoka Miyako Mega Solar		
Total Capacity / Equity (MW)	67 / 6.7	

Remarks:

Tottori Project recognize income in the form of dividend from land leasing.



Solar Farm in Thailand

- Pioneer and leading developer of the first solar farm project in Thailand and ASEAN community.
- 36 solar farms in Thailand, 260 MW
 - Commercial Operation Date (COD) to Provincial Electricity Authority (PEA) since mid 2014.
 - Adder rate at 8 THB/kWh for 10 years.
 - In 2020, 36 solar farms generated up to **385.8 Million** units.



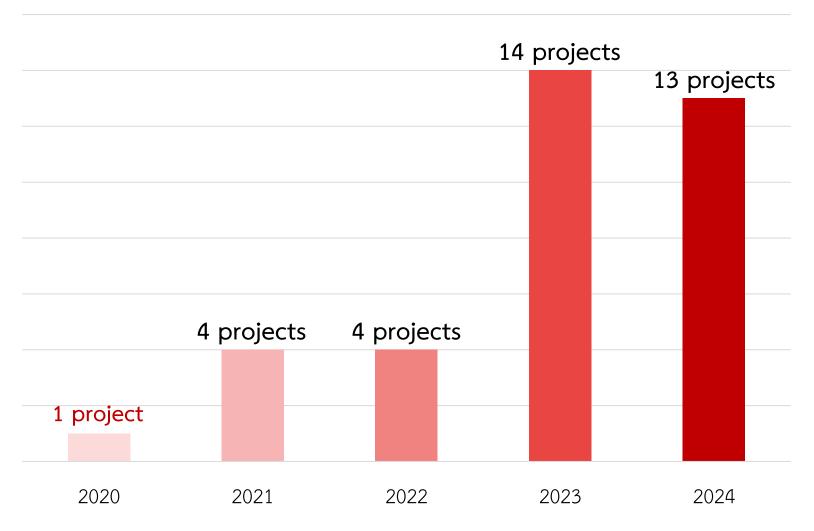








Phase-Out of Adder



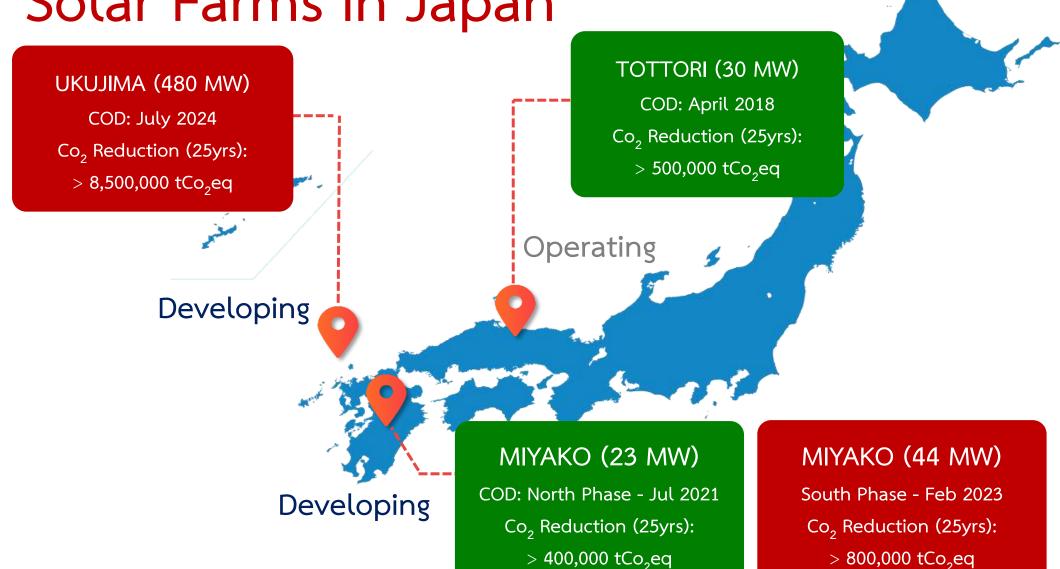
Remark: Total Capacity 260 MW

SOLAR FARM PROJECTS IN JAPAN





Solar Farms in Japan



TOTTORI YONAGO MEGA SOLAR FARM





Tottori Yonago Mega Solar Farm

Total Capacity	30 MW
Construction Site	Tottori, Japan
Partners	 SPCG Public Company Limited (79.10%) Kyocera Corporation, Japan Tokyo Century Leasing Corporation (TCL)
Power Purchase Rate	FiT 36 Yen / Unit
Contract Period	20 years
Purchaser of Electricity	Chugoku Electric Power Co., Ltd.
Commercial Operation Date (COD)	April 2018



Tottori Yonago Mega Solar Farm







Tottori Yonago Mega Solar Farm in Japan, 30 MW

- Commercial Operation Date (COD) to Chugoku Electric Power
 Co., Ltd. in April 2018
- Power purchase agreements at 36 yen/unit for 20 years
- Dividend yield
 - <u>In 2018</u>: 1.6% <u>In 2019</u>: 7.2% <u>In 2020</u>: 6.1% <u>In 2021</u>: 7.8 %

UKUJIMA MEGA SOLAR PROJECT





Ukujima Mega Solar Project

Total Capacity	480 MW
Construction Site	Ukujima island, Sasebo city, Nagasaki prefecture
	(located at the west coast of Kyushu, Japan)
Partners	• SPCG Public Company Limited (17.92%)
	Kyocera Corporation
	Kyudenko Corporation
	Tokyo Century Corporation
	Furukawa Electric Company Limited
	Tsuboi Corporation
	• Chiyoda-gumi
	• Smart Energy
	Newstar Communications
Power Purchase Rate	FiT 40 Yen / Unit
Contract Period	17 years 3 months
Purchaser of Electricity	Kyushu Electric Power Co., Inc.





Ukujima Mega Solar Project

Construction Period	2019 - 2024
Commercial Operation Date (COD)	July 2024
Total Project Cost	JPY 178,758 Million (Approx. THB 51,247 Million) (Exchange rate 28.6687 THB per 100 Yen as of Mar 16th, 2022)
SPCG Investment Budget	JPY 9,000 Million (Approx. THB 2,580 Million) (Exchange rate 28.6687 THB per 100 Yen as of Mar 16th, 2022)
D/E ratio	Debt 70 : Equity 30
Forecasted 2025 Revenue (Holding Company)	JPY 3,025 Million (Approx. THB 867 Million) (Exchange rate 28.6687 THB per 100 Yen as of Mar 16th, 2022)
Forecasted 2025 Dividend (SPCG Proportion : 17.92%)	JPY 980 Million (Approx. THB 281 Million) (Exchange rate 28.6687 THB per 100 Yen as of Mar 16th, 2022)

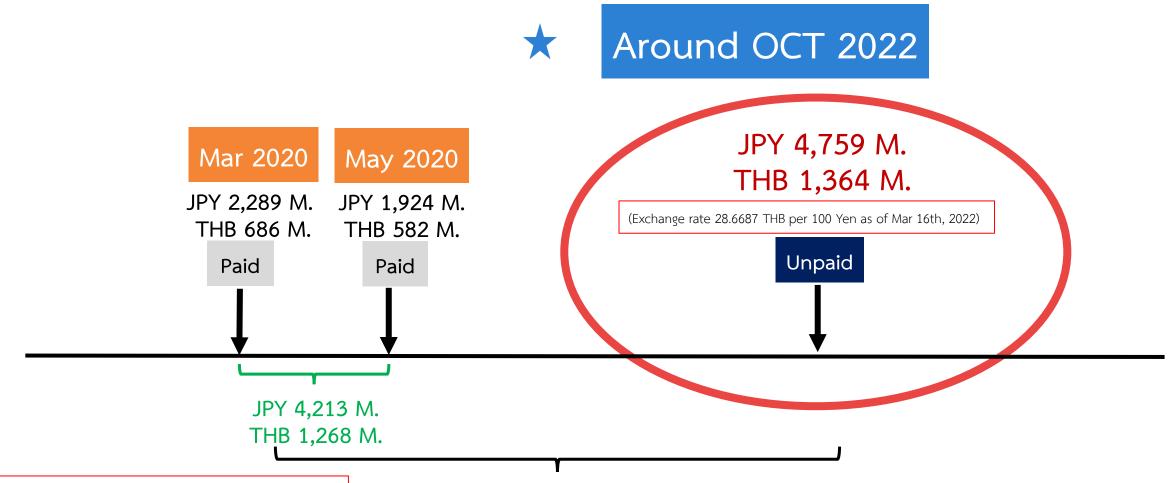






1. Injection Timeline

With the evidence of <u>Confirmed Loan</u>
<u>Almont</u> and <u>Loan Agreement</u> only.



 $\mathrm{1^{st}}$ Injection : exchange rate 29.9815 THB per 100 Yen as of March 26, 2020

 2^{nd} Injection : exchange rate 30.2572 THB per 100 Yen as of May 18, 2020

Total JPY 9,000 M. Total THB 2,700 M.



Ukujima: Accommodation for workers





Construction Progress











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Construction Progress











MIYAKO MEGA SOLAR PROJECT





Fukuoka Miyako Mega Solar

Project name	Fukuoka Miyako Mega Solar
Project location	Miyako Town, Fukuoka (Kyushu Island)
Total installed capacity	67 MW Divided into: North Phase 23 MW - (Completed & Connected) South Phase 44 MW - (Under development)
Total Project Cost	JPY 23,493,000,000 (Approx. THB 6,735 Million) (Exchange rate 28.6687 THB per 100 Yen as of Mar 16th, 2022)
SPCG investment proportion <u>10%</u>	JPY 314,013,600 (Approx. THB 91 Million)
D/E ratio	Debt 86.7 : Equity 13.3
Power Purchase Rate	JPY 36/kWh (tax exclusive)
Power Purchase Period	North Phase - 18.7 Years South Phase - 17.8 Years
Off taker	Kyushu Electric Power Co., Inc.

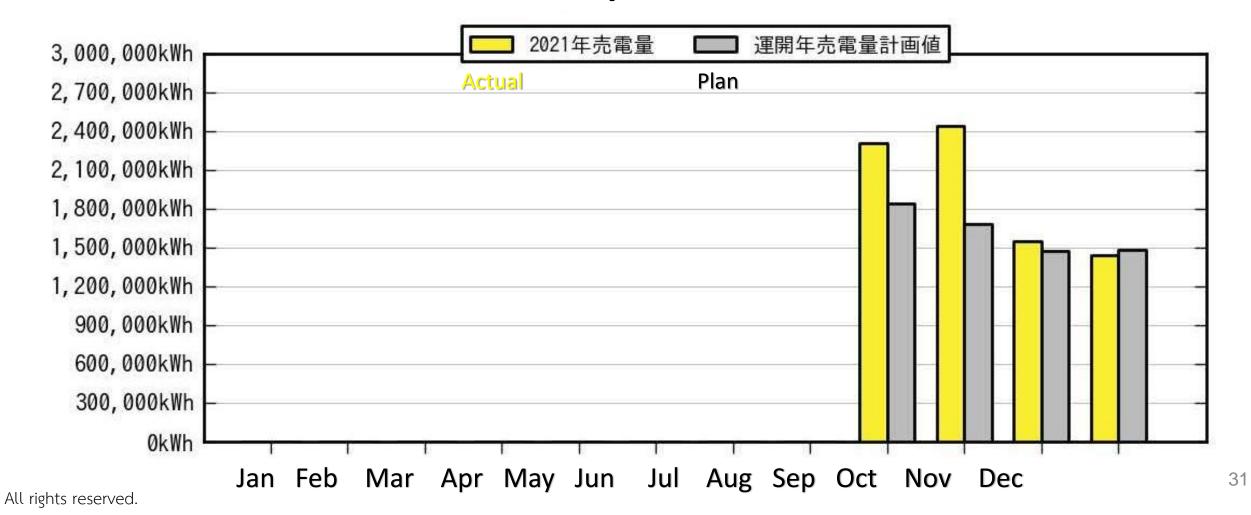






2. Overall production until Dec 2021

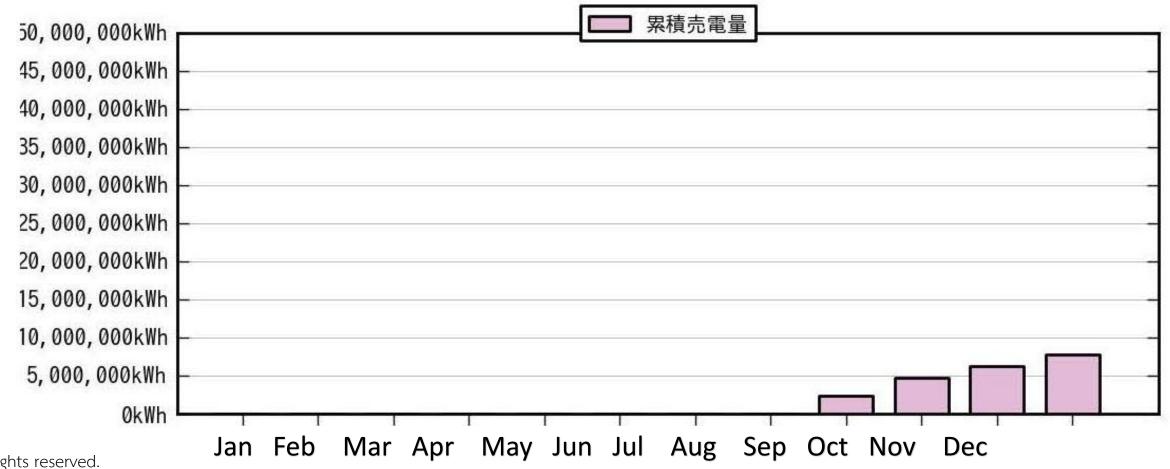
Monthly Production





2. Overall production until Dec 2021

Accumulated Production





3. Construction Progress (2) Photo





3. Construction progress (3) Photo

福岡みやこメガソーラー発電所建設工事 空撮写真 Aerial Photo **4)I** 3IK ⑥工区 5~6工区

ความคืบหน้าการลงทุนโครงการผลิตไฟฟ้าจากพลังงานแสงอาทิตย์ สำหรับใช้ในพื้นที่เมืองใหม่ เขตพัฒนาพิเศษภาคตะวันออก (EEC) กำลังการผลิตติดตั้งรวมไม่น้อยกว่า 500 เมกะวัตต์



สถานะการจัดซื้อที่ดินโครงการฯ



PHASE 1 จำนวน 23 โครงการ รวมกำลังการผลิตติดตั้ง 316 เมกะวัตต์ (61 จุดขาย) โดยมีรายละเอียดดังนี้

ลำดับ	จังหวัด	จำนวน โครงการ	จำนวน MW	จำนวน จุดขาย	เนื้อที่ (ไร่-งาน-ตร.ว.)	มูลค่าที่ดิน (บาท)	ราคาส่วนปรับปรุง (บาท)	รวมราคาที่ดิน และส่วนปรับปรุง (บาท)	การจัดจ้างปรับหน้าดิน และถมดิน	
									ปรับหน้าดิน	ถมดิน
1.	ฉะเชิงเทรา	9	125	23	1,141-2-36	768,280,250.00	395,687,334.00	1,163,967,584.00	8	8
2.	ชลบุรี	7	94	17	1,041-1-98	708,297,950.00	269,361,140.00	977,659,090.00	7	7
3.	ระยอง	7	97	21	929-2-22.3	616,588,483.00	266,616,734.00	883,205,217.00	7	6
รวมทั้งสิ้น		23	316	61	3,111-0-2.7	2,093,166,683.00	931,665,208.00	3,024,831,891.00	22	21

หมายเหตุ: ทั้ง 23 พื้นที่ ทำสัญญาซื้อขายและโอนกรรมสิทธิ์แล้ว

SOLAR ROOF BUSINESS



Solar Power Roof Company Limited (SPR)





Solar Power Roof Company Limited (SPR) is a subsidiary of SPCG and a pioneer in solar roof development to help reduce the electricity expenses and CO2 reduction. For residential, commercial and industrial systems in Thailand and the ASEAN community.

Best Value

Solar Power Roof system by SPR reduces both energy bills and global-warming CO2 emissions instantly after installation.

Best Design

Our professional team provides valued customers for full service regarding the surveys, system design, feasibility studies, and installation.

Best Output

Solar Power Roof system by SPR has provided energy by using the highest quality of solar modules by Kyocera Corporation (Japan) along with the best balance of systems for 25 years sustainability.

Best Service

With daily monitoring services, SPR provides a free record and report of energy production for up to 2 years, as well as maintenance (if any) in order to accommodate the best service.

KYOCERA CORPORATION

KYOCERA has been a pioneer in developing innovative solar power solutions for over 40 years. During this time, Kyocera has set the standard for harnessing the Sun's energy with highly reliable and high quality, best-in-class technology — having produced an accumulated 8 gigawatts of solar power generating equipment to date.

THE NEW VALUE FRONTIER





"Respect the Divine and Love People"

Preserve the spirit to work fairly and honorably, Respecting people, our work, our company and our global community.

SMA Solar Technology AG, Germany





- SMA is global leader for solar inverters, a key component of all PV plants.
- Listed company in the Stock Exchange of Frankfurt and in the SDAX index.
- SMA market position is ranking "3" globally. (based on installed inverter capacity)
- SMA products are the best quality with comprehensive service due to SMA's over 35 years of experience in the solar business.





Solar Roof Business









RESIDENTIAL

COMMERCIAL ≈ 50 MW



RESIDENTIAL

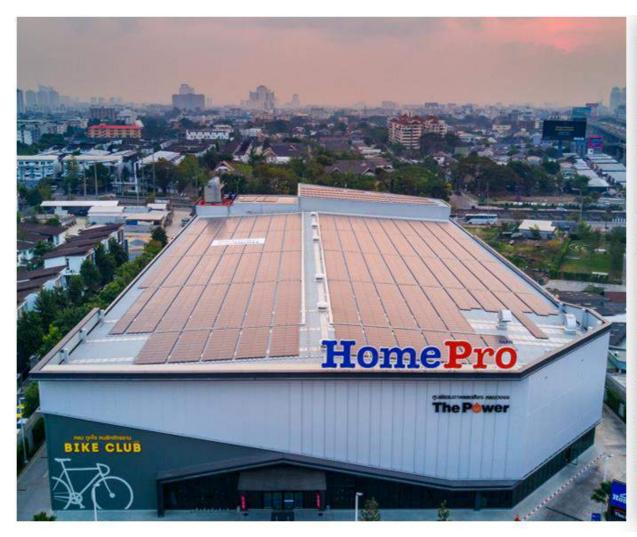








COMMERCIAL





COMMERCIAL



INDUSTRIAL



INDUSTRIAL

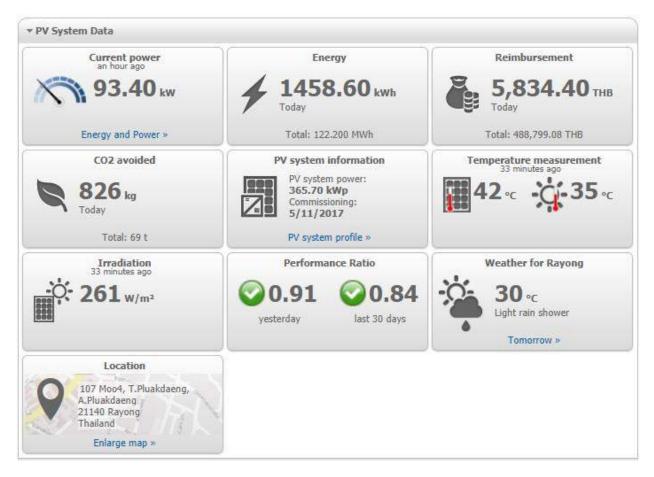


INDUSTRIAL



Monitoring System







Solar PPA Business by Strong Collaboration Partners



Mitsubishi UFJ Lease and Finance, a member of MUFG Group, operates Worldwide as a total financial group, who also provide a stable financing.



SPCG, a listed company at SET, is a pioneer of solar industry in Thailand, who provides design, installation work, after-service.



PEA ENCOM, 100% owned by PEA, provides infrastructure and network of electricity service, through Thailand.

Let's go green with MSEK Power



What is a Solar Power Purchase Agreement

A Solar Power Purchase Agreement (SPPA) is an agreement in which a developer owns, operates, and maintains the photovoltaic (PV) system, and a customer agrees to site the system on its property and purchases the system's electric output from the solar services provider for a predetermined period.



AUTHORIZED SALES & SERVICE PARTNER BUSINESS





Authorized Sales & Service Partner Business





- The SMA Group is a global leader for solar inverters, a key component of all PV plants.
- SMA Solar Technology AG, is a listed company in the stock exchange of Frankfurt.

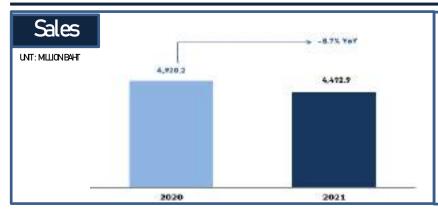
Since July 2018, SPCG appointed the subsidiary company which is **Solar Power Engineering Co.**, **Ltd.** (SPE) as the authorized sales & service partner of SMA Solar Technology AG (SMA) in Thailand.

- Covering all SMA family products in the Indo-China region; Thailand, Vietnam, Laos, Cambodia, Myanmar Covering the need of customers on behalf of SMA.
- SPE will support the customer in their enquiry and contact, technical training on the product, together with SMA.

FINANCIAL HIGHLIGHT



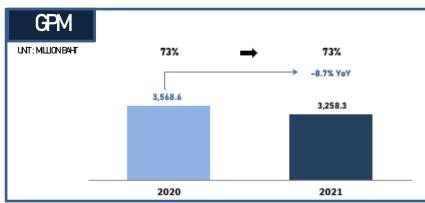
Financial Performance



Sales Drop in 2021

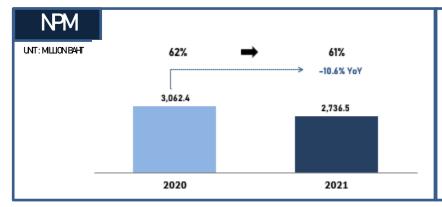
Sales decreased 427.3 MB, mainly resulted from

- Solar Roof Business 313.6 MB as a result of Covid-19 pandemic.
- Solar Farm Business 238.8 MB resulted from the revenue from subsidy of adders, 8 Baht per unit, of 5 solar farms had been over.



GPM Stable in 2021

The main reasons was from <u>Cost Saving Strategy</u> resulting in cost of O&M (Operating & Maintenance) of solar farm business decreased in the amount of <u>Baht 26.1 million</u> per annum

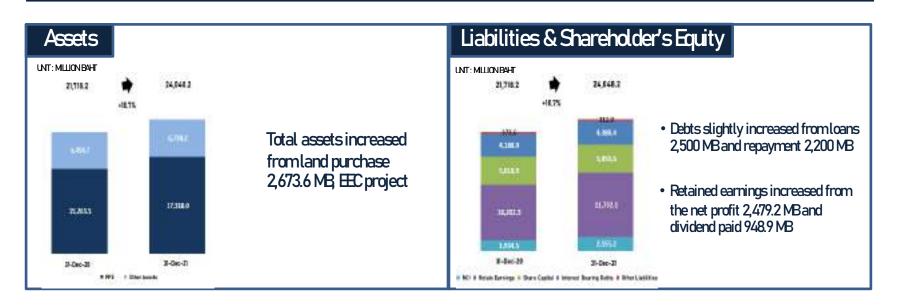


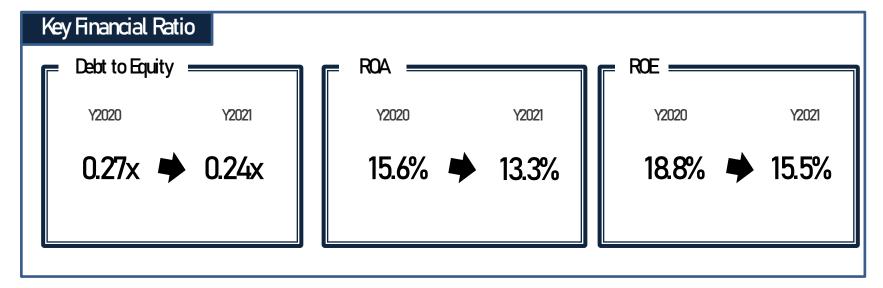
NPM Stable in 2021

Net profit decreased 325.8 MB, mainly resulted from

- Finance cost decreased 52 MB from repayment on debentures.
- SGSA decreased 17 MB in line with sales of solar roof business.
- Loss on derivatives 45.7 MB
- Tax expenses increased 60 MB

Financial Performance





SPCG 2022 TARGET





SPCG 2022 Target

Total revenue not less than 4,700 MB

To increase total production capacity of 36 Solar Farms up to 388 million units

To expand new investment projects

Domestically and Internationally



Thank you for your attention

- Best Value - Best Design - Best Output - Best Service -





www.spcg.co.th