

SPCG Public Company Limited: THE PIONEER OF SOLAR FARM AND SOLAR ROOF DEVELOPER IN THAILAND AND ASEAN COMMUNITY

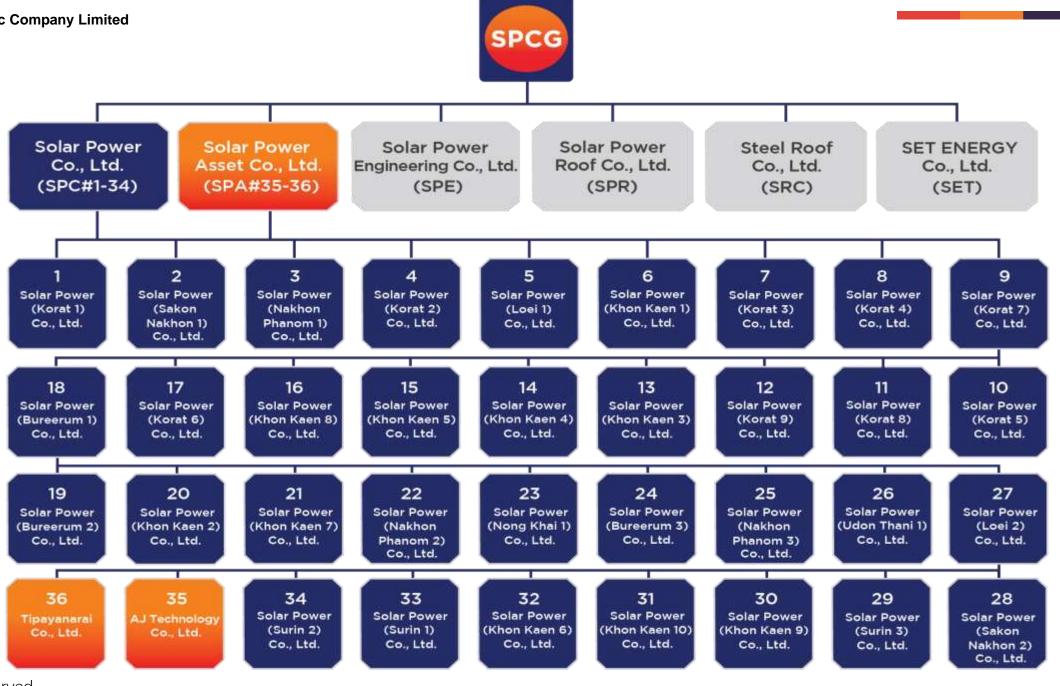




CORPORATE STRUCTURE



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SPCG Timeline





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



SPCG Completed all 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 2037 to be 5,000 MW

of Thailand

Government

2007 > 2009 > 2010 > 2011 > 2013 > 2014

2018

2020

2037

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)

9,290 MW is the target of solar PV in Power Development Plan (PDP 2018 Rev.1)

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.



with one-stop service

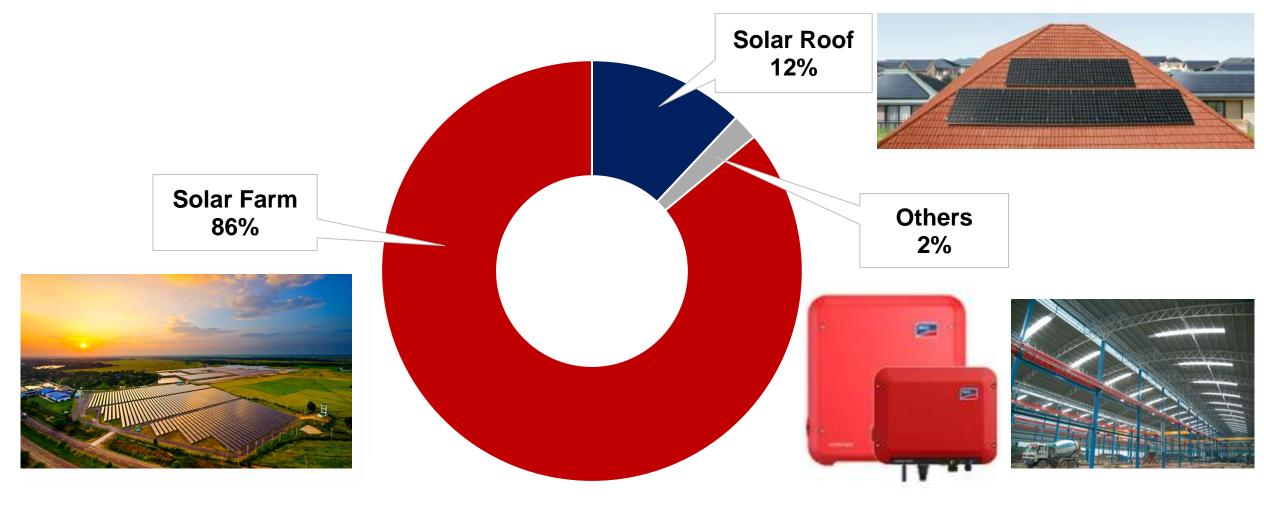


Authorized Sales and Service Partner of SMA Solar Technology AG (SMA), Germany



Revenue Structure in Each Business

■ Solar Roof ■ Others



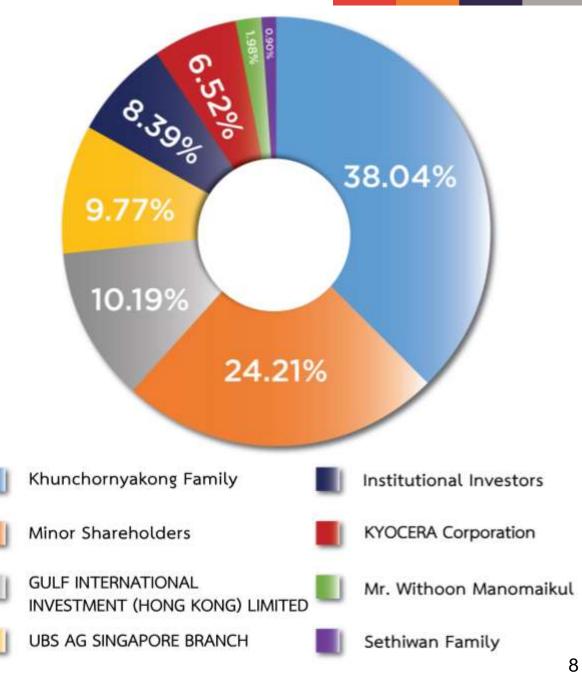
■ Solar Farm

STOCK INFORMATION



SPCG Public Company Limited

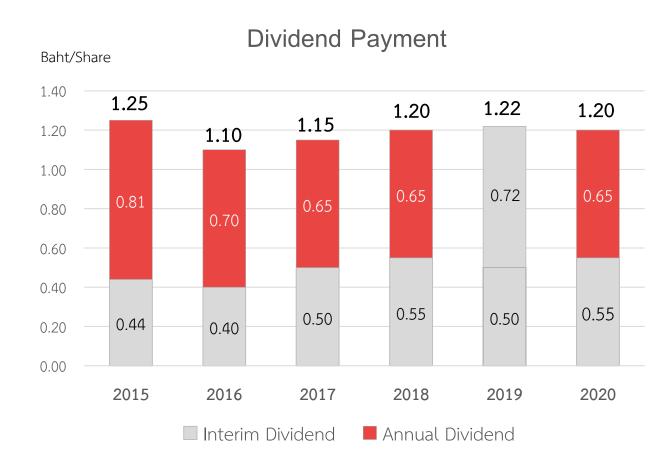
Stock	SPCG
Market	SET
Industry	Resources
Sector	Energy & Utilities
First Trade Date	December 20, 2005
Authorized Capital	1,153,189,000.00 Baht
Paid-up Capital	1,055,790,000.00 Baht
Major Shareholders	75.79 % (Record date on December 14, 2020)
Minor Shareholders	24.21 % (Record date on December 14, 2020)
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)





SPCG Dividend Payment

Year	Dividend (THB / Share)	Dividend Yield
2015	1.25	3.97 %
2016	1.10	5.84 %
2017	1.15	5.02 %
2018	1.20	6.21 %
2019	1.22	6.12 %
2020	1.20	6.06 %



Dividend Policy: Not less than 40% of net profit of the separate financial statement after legal reserve in compliance with the company regulations and laws (with additional conditions)

Remark: The payment of such dividend at 0.65 Baht/share is subject to the approval from the Annual General Meeting of shareholders on April 19th, 2021. All rights reserved.

SOLAR FARM BUSINESS





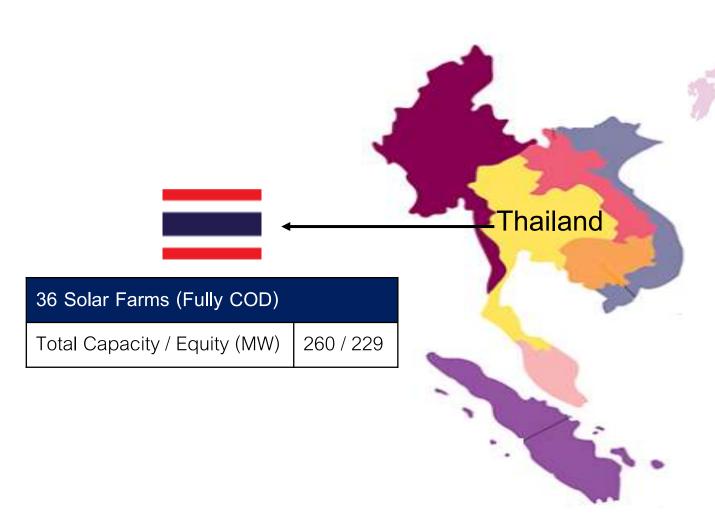
Benefits

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



Japan —

Tottori (Fully COD)						
Total Capacity / Equity (MW)	30 / -					
Ukujima (Developing)						
Ukujima (Developing)						



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.



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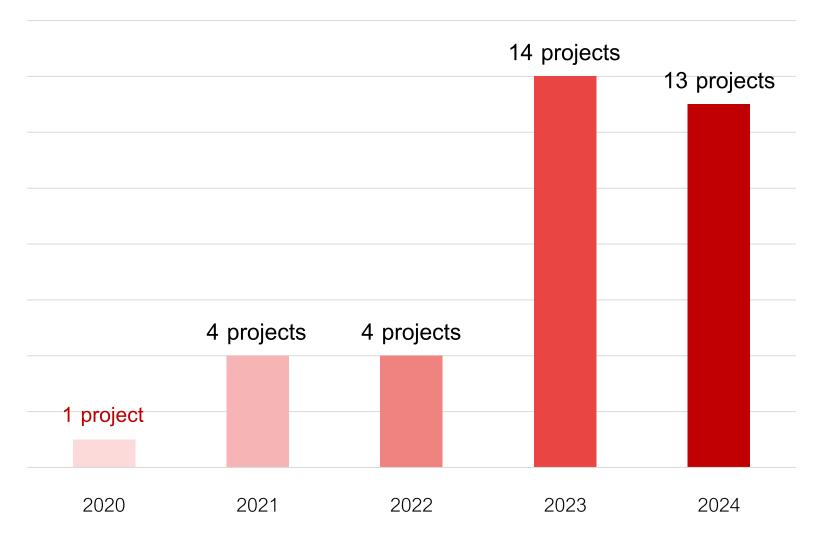








Phase-Out of Adder



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Solar Farms in Japan





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%



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

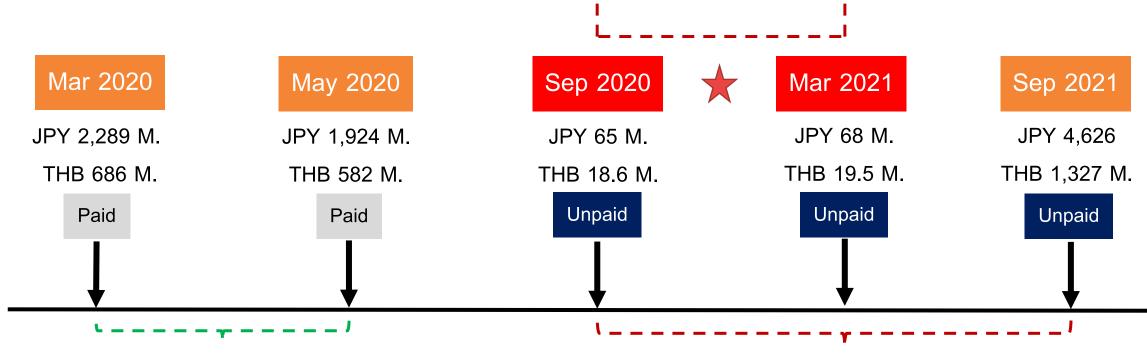
Construction Period	2019 - 2023
Commercial Operation Date (COD)	1 July 2023
Total Project Cost	JPY 178,758 Million (Approx. THB 51,294 Million) (Exchange rate 28.6949 THB per 100 Yen as of March 9 th , 2021)
SPCG Investment Budget	JPY 9,000 Million (Approx. THB 2,582 Million) (Exchange rate 28.6949 THB per 100 Yen as of March 9 th , 2021)
D/E ratio	Debt 70 : Equity 30
Forecasted 2025 Revenue (Holding Company)	JPY 3,025 Million (Approx. THB 868 Million) (Exchange rate 28.6949 THB per 100 Yen as of March 9 th , 2021)
Forecasted 2025 Dividend (SPCG Proportion : 17.92%)	JPY 980 Million (Approx. THB 281 Million) (Exchange rate 28.6949 THB per 100 Yen as of March 9 th , 2021)







3rd & 4th injection was postponed due to Covid-19 crisis, but COD schedule remains the same, 1 July 2023



JPY 4,213 M.

THB 1,268 M.

JPY 4,759 M.

THB 1,365 M.

Total JPY 9,000 M.

Total THB 2,600 M.

1st Injection: exchange rate 29.9815 THB per 100 Yen as of March 26, 2020 2nd Injection: exchange rate 30.2572 THB per 100 Yen as of May 18, 2020

3rd, 4th, 5th Injection: exchange rate 28.6949 THB per 100 Yen as of March 9th, 2021



Project Timeline

	2020 2021			2022				2023			2024					
Q.1	Q.2	Q.3	Q.4	Q.1	Q.2	Q.3	.3 Q.4 Q.1 Q.2 Q.3 Q.4		Q.1	Q.2	Q.3	Q.4	Q.1	Q.2	Q.3	Q.4
Construction (2019 – 2023)																
Civil Work																
Land Preparation (AC-DC Converter Building) / Tree Cutting / Temporary Road / Mounting Structure / Now, we're in this process.																
Panel Attach / Fence Work																

Generation Work

Wiring – PCS and Electric Pole / Transmission Line

Submarine Cable Work

Cable Route Investigation / Cable laying /
Cable Unloading Point

AC-DC Converter Building Work

Site Foundation Work / Setup and adjustment AC-DC Converter Equipment / AC-DC Converter Trail

Start of Electricity Selling
Test

(Jul 2023)

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EPC status

Topic	Detail	Planned Period	Actual Progress (%)
Civil Work	Land preparation for AC-DC Converter Building, PCS, temporary road	Oct 2020 - Dec 2022	15 %
	Disaster prevention work	Oct 2020 - Feb 2021	0 %
	Tree cutting	Nov 2020 - Apr 2022	10 %
	Site measuring	Sep 2020 - Aug 2020	30 %
	Soil improvement	Oct 2020 - Dec 2021	10 %
	Mounting structure, panel attach, fence work	Jan 2021 – Dec 2022	0 %

Tree Cutting



Site Measuring



Soil Improvement



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Work Progress





Site Office Building



Work Progress





Land Adjustment Process



Work Progress





Land Adjustment Process

SOLAR ROOF BUSINESS



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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.

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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

≈ 5 MW

COMMERCIAL ≈ 50 MW INDUSTRIAL > 100 MW

RESIDENTIAL







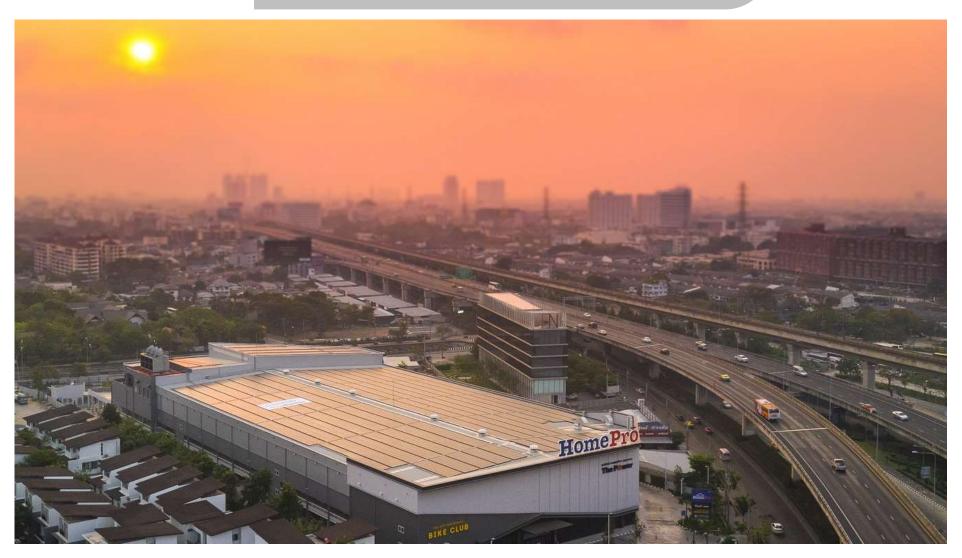


COMMERCIAL





COMMERCIAL

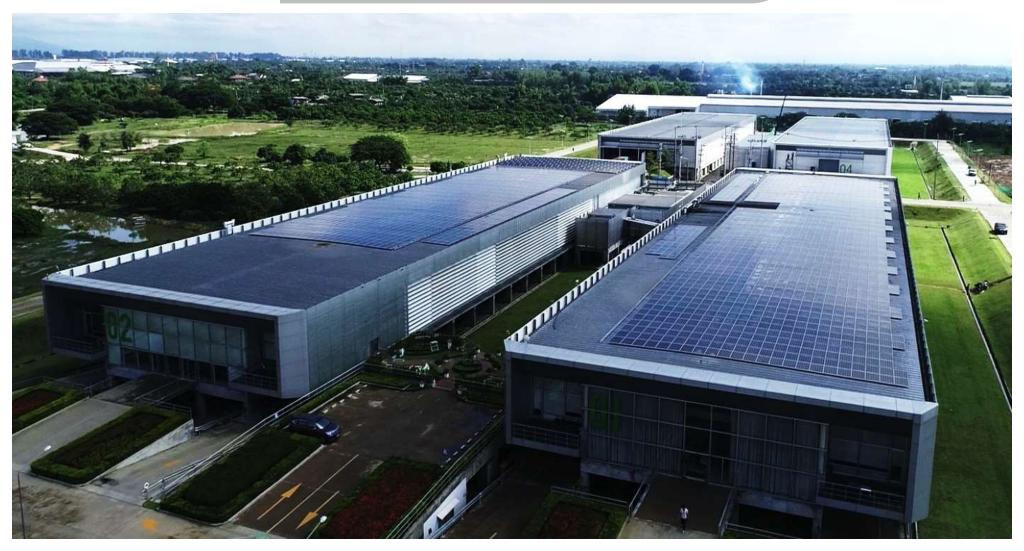


COMMERCIAL



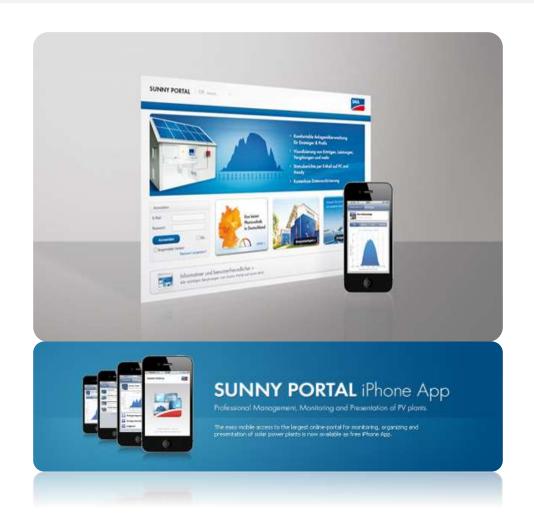


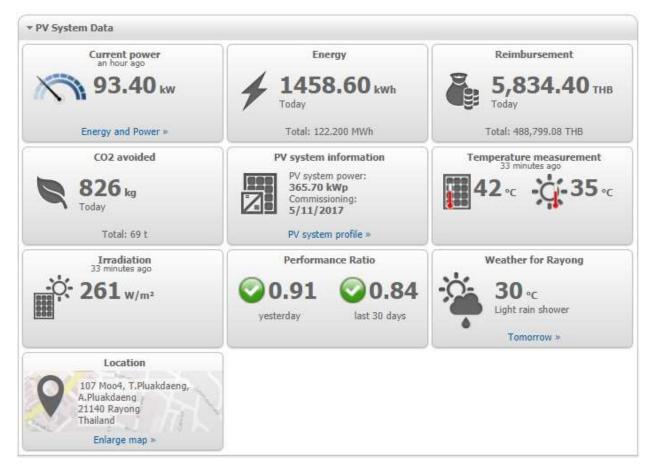






Monitoring System







Solar PPA Business by Strong Collaboration Partners

MUL Group Mitsubishi UFJ Lease & Finance

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.

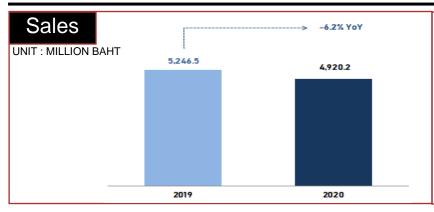
Since July 2018, SPCG appointed the subsidiary company which is **Solar Power Engineering Co., Ltd.** (SPE) as the authorized sales & service partner of SMA Solar Technology AG (SMA) in Thailand.

- 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



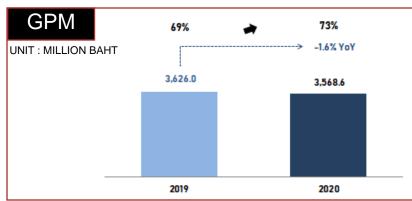
Financial Performance



Sales Drop in 2020

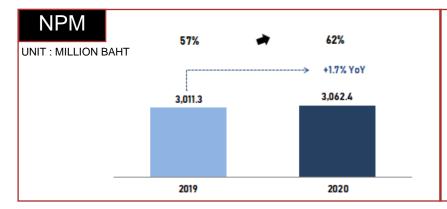
Sales decreased 326.3 MB YoY resulted from <u>Solar Farm Business</u>. The main reasons were as follows:

- The revenue from subsidy of adders, 8 Baht per unit, of Solar Power (Korat 1) Co., Ltd. expired on 20 April 2020
- Power output for 2020 decreased by 11.6 million units (3%)



GPM Growth in 2020

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 69</u> <u>million</u> per annum

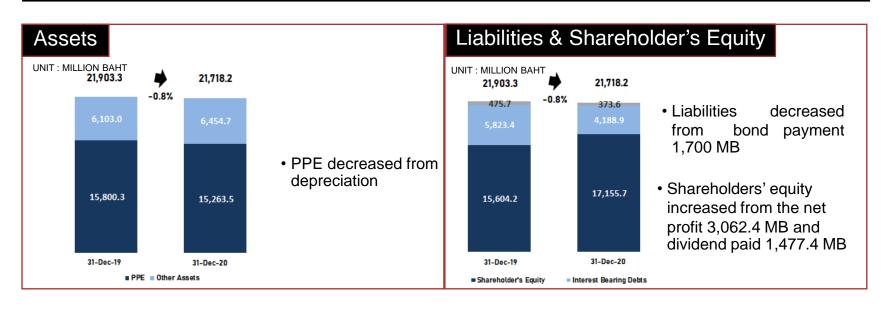


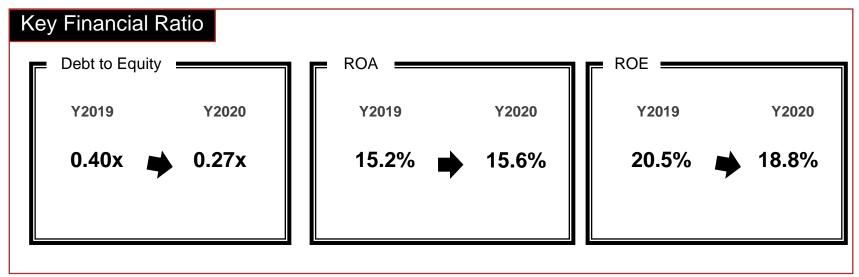
NPM Growth in 2020

The main reasons were as follows:

- Finance cost decreased from repayment on debentures
- Administrative expenses decreased resulted from the cost saving strategy

Financial Performance





SPCG TARGET 2021





SPCG Target 2021

Total revenue not less than 5,500 MB

To increase total production capacity of 36 Solar Farms up to 385 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