



Q1 2017 Results Presentation Opportunity Day

23rd May 2017







rowing *P*rofit with *S*ustainability and *C*ontrol

Explore new opportunity through 3 growth engines

Within 2019, GPSC will have 1,922 MW in power portfolio with CAGR at 11.6% by leveraging competitiveness and 3 growth engines:

- (1) Grow with PTT & Domestic,
- (2) International business expansion, and
- (3) Future Energy development.



Energy Storage System gearing up toward sustainability

As market moves toward energy storage technology, GPSC reached cooperation deal with 24M in using the technology to produce and distribute Lithium-Ion batteries in ASEAN. With innovative technology, there will be varieties of electricity generating platforms supporting to GPSC's sustainable growth.

1Q17 Net profit delivered as planned

GPSC's **net profit in Q1/17 increased by THB 331 million** from Q4/16 thanks to continuously efficient cost management of Rayong Plants. For Sriracha Power Plant, revenue from availability payment increased. However, net profit decreased YoY by Baht 121

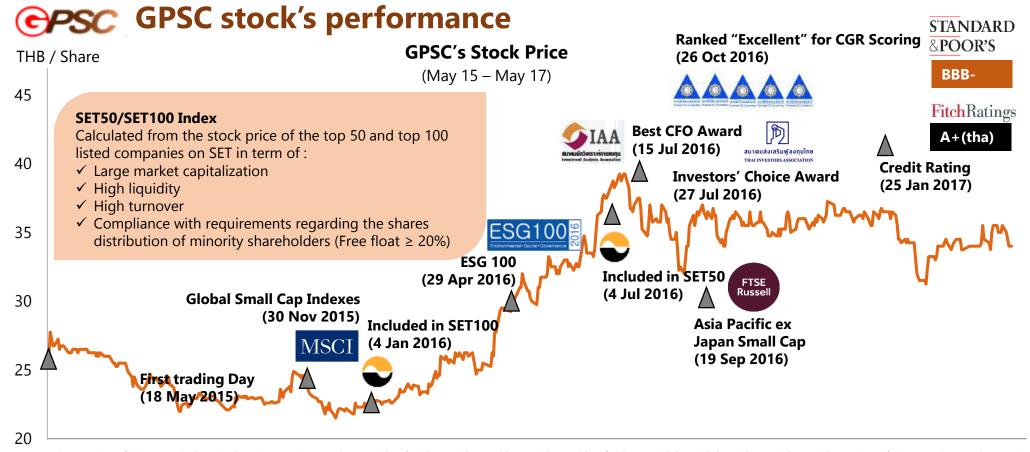
Profit

million or 14% because dividend incomes from RPCL decreased by Baht 60 million and operating profit of IRPC-CP Phase 1 decreased due to a turnaround of main customer.

Control

6 projects in progress meet milestones as planned

Three power plants are expected to COD by 2017 while another three power plants are expected to COD within 2019. All the projects are closely monitored by GPSC with construction specialists to meet the milestones as planned.



May-15 Jun-15 Jul-15 Aug-15 Sep-15 Oct-15 Nov-15 Dec-15 Jan-16 Feb-16 Mar-16 Apr-16 May-16 Jul-16 Aug-16 Sep-16 Oct-16 Nov-16 Dec-16 Jan-17 Feb-17 Mar-17 Apr-17 May-17

- IPO in May 2015, GPSC has been growing business with continuously increase market capitalization.
- Starting from November 2015 where GPSC has been included in the Global standard, namely **MSCI Index** and in September 2016, GPSC was included in **FTSE Index**.
- GPSC was classified to be in **SET100** in January 2016 and then in July 2016, progressed to be included in **SET50**.
- In April 2016, GPSC has been shortlisted **in ESG 100** with sustainable business awarded by Thaipat Institute. In 2H/2016, GPSC's CFO received **Best CFO Award** from Investment Analysts Association. The company also received **Investors' Choice Award** from Thai Investors Association, **ranked "Excellent" for CGR Scoring** by Thai Institute of Directors and GPSC received **Most Progress in IR Award** from IR Magazine.
- Recently in December 2016, GPSC has been initially ranked BBB- rating by S&P's and A+(tha) by Fitch Ratings with Investment Grade and Stable Outlook. These are the results of confidence on GPSC performance from all stakeholders.



PSC GPSC's facilities produce electricity of 1,922 Equity MW

(2,318 Equity MW equivalent; electricity 1,922 Equity MW, steam 1,582 T/H)

BUSINESS PORTFOLIO



Combined Cycle / Cogeneration

- Electricity 1,517 MW
- Steam 1,582 T/H

Capacity

- Industrial Water 2,080 Cu.m./H
- Chilled Water 12,000 RT



Renewable Energy

• Electricity 58 MW



Hydroelectric

• Electricity 347 MW



Other Businesses

- 24M Technologies, Inc. (USA)
- Business Service Alliance Co.,Ltd.

ELECTRICITY

1,922 MW (operate 1,381 MW, under constriction 541 MW)

INDUSTRIAL WATER

2,080 Cu.m./H

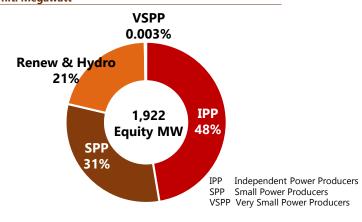
STEAM

1,582 T/H (operate 1,441 T/H)

CHILLED WATER

12,000 RT

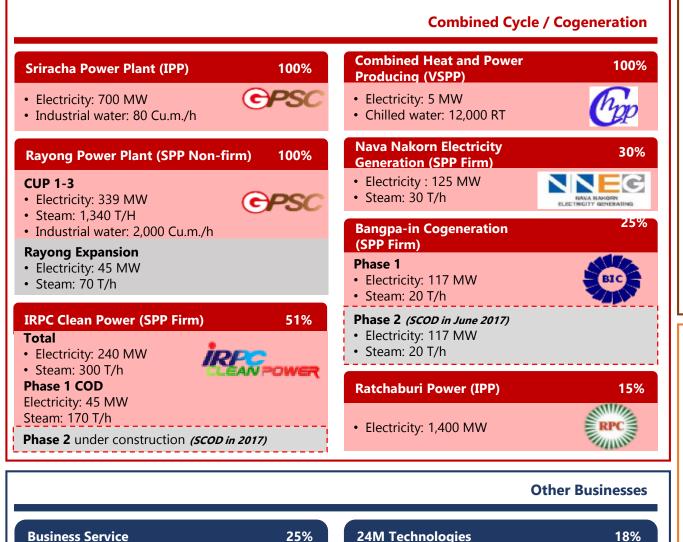
ELECTRICITY CAPACITY BREAKDOWNUnit: Megawatt



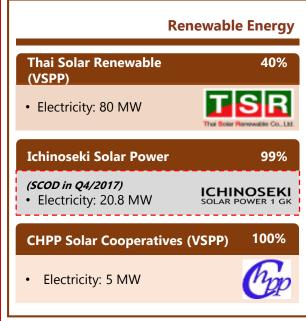


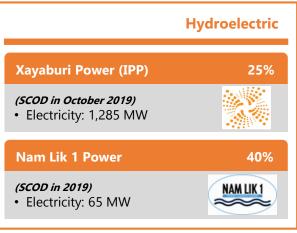
Alliance

GPSC's Business Portfolio: 11 Affiliates in 4 Countries



BSA





Project under construction
Upcoming COD by 2017

6

24m



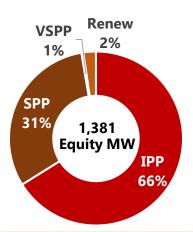




Majority of GPSC's revenue is from electricity, PTT Group is GPSC's major customer

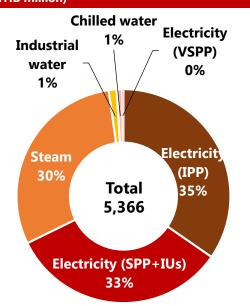
ELECTRICITY CAPACITY BREAKDOWN

(Unit: Equity Megawatt)



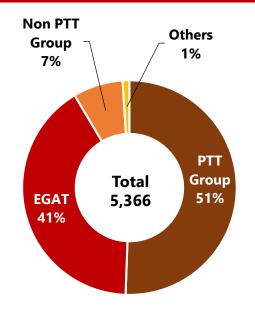
Name	Type G		Total capacity	Equity capacity	Steam
		share %	(MW)	(MW)	(T/H)
IN OPERATION					
Sriracha	IPP	100%	700	700	
CUP-1	SPP	100%	226	226	890
CUP-2	SPP	100%	113	113	170
CUP-3	SPP	100%	-		280
CHPP	VSPP	100%	5	5	
IRPC-CP Phase 1	SPP	51%	45	23	86.7
CHPP (Solar)	VSPP	100%	5	5	
Consolidat	e to Fina	ncial State	ment	1,072	1,427
TSR	Renew	40%	80	32	
NNEG	SPP	30%	125	38	9
BIC-1	SPP	25%	117	29.25	5
RPCL	IPP	15%	1,400	210	
S	hare of F	Profit / Divi	idend Income	309	14
		To	otal operating	1,381	1,441

Q1/2017 Revenue by product



 Electricity and Steam are major sources of GPSC's revenue, accounted for 98% of total revenue.

Q1/2017 Revenue by customer (THB million)



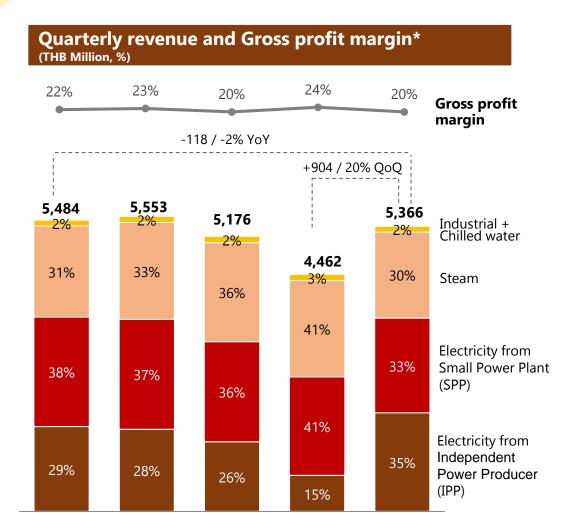
 Accounted for more than 50% of total revenue, PTT Group is consistently the largest customer of GPSC in Q1/17.



Q1/16

Q2/16

Revenue increased THB 904 million or 20% QoQ mainly from SRC



Q1/17 VS Q4/16 (QoQ)

Departing revenue in Q1/17 increased by THB 904 million or 20% compare to Q4/16. The increase was due to the higher revenue from Energy Payment (EP) resulted from the higher dispatch volume of Sriracha plant, which is an IPP, per EGAT's instruction.

Q1/17 VS Q1/16 (YoY)

- Operating revenue in Q1/17 decreased by THB 118 million or 2% due to **lower** sales volume of IRPC-CP Phase 1.
- CUP and IRPC-CP, which are SPPs, had maintenance shutdowns of some customers in Q1/17 causing the drop in revenue.

Q4/16

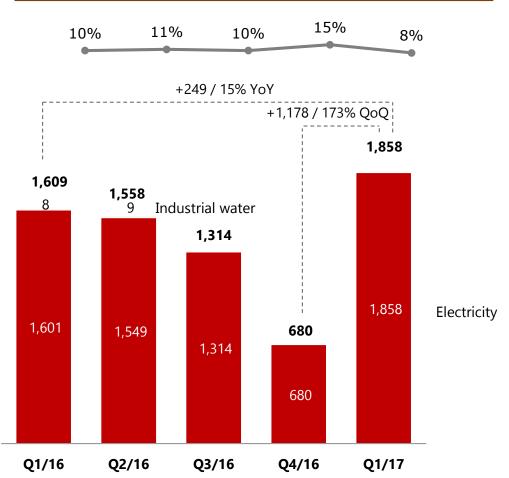
Q1/17

Q3/16



Sriracha Power Plant: Revenue & GPM (1/3)

Quarterly revenue & gross profit margin (THB Million, %)

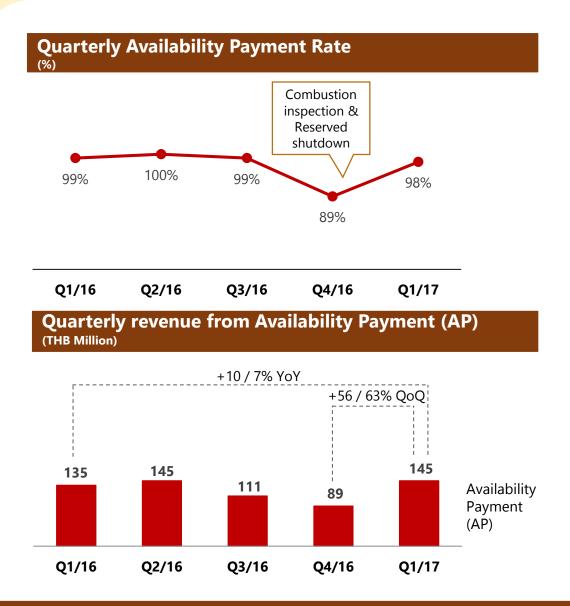


Q1/17 VS Q4/16 (QoQ)

- Total revenue in Q1/17 increased by THB 1,178 million or 173% mainly from an increase in the dispatch volume.
- While the GPM decreased because of **the increase in EP** which is the revenue that mainly passes through cost in energy production than generating profit.

- Total revenue in Q1/17 increased by THB 249 million or 15% mainly due to the higher sales volume of electricity submitted to EGAT
- But GPM decreased from the increase in revenue from EP as well.

Sriracha Power Plant (IPP): Power (2/3)



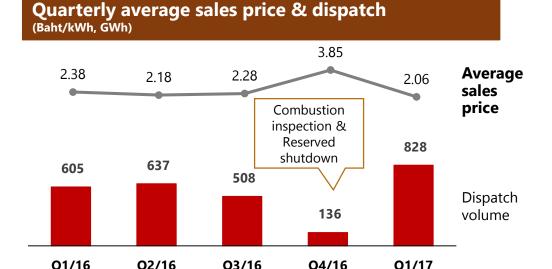
Q1/17 VS Q4/16 (QoQ)

- Availability rate in Q1/17 increased from 89% to 98% due to the annual maintenance in Q4/16.
- Revenue from Availability Payment (AP) in Q1/17 also increased by THB 56 million or 63% from the improve in Availability Rate caused by the fact that there was no power plant maintenance in Q1/17 as in Q4/16.

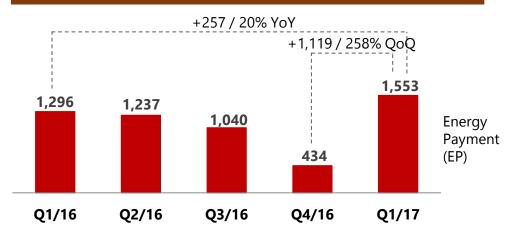
Q1/17 VS Q1/16 (YoY)

Revenue from Availability Payment in Q1/17 increased by THB 10 million or 7% from TFRIC#4 adjustment.

Sriracha Power Plant (IPP): Power (3/3)



Quarterly revenue from Energy Payment (EP) (THB Million)



Q1/17 VS Q4/16 (QoQ)

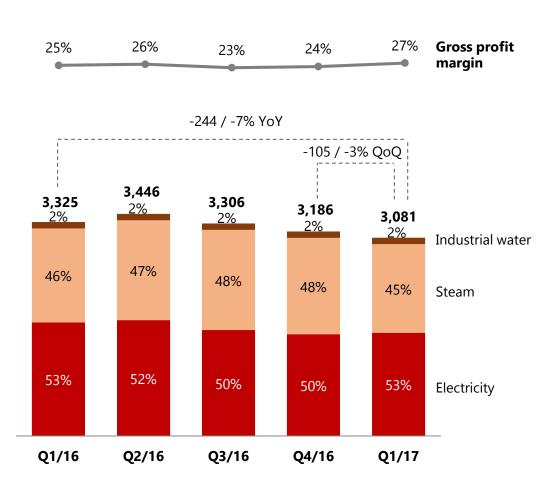
- Average sales price in Q1/17 decreased by 1.79 Baht per kWh due to the lower natural gas price.
- Revenue from Energy Payment (EP) increased by THB 1,119 million or 258% as a result of higher dispatch volume per EGAT's instruction partly caused by the maintenance of Myanmar gas field in Q1/17.

- Average sales price decreased by 0.32 Baht per kWh due to the lower natural gas price.
- Revenue from EP increased by THB 257 million due to the increase in dispatch volume.



PSC Rayong Power Plant (SPP): Revenue & GPM (1/3)





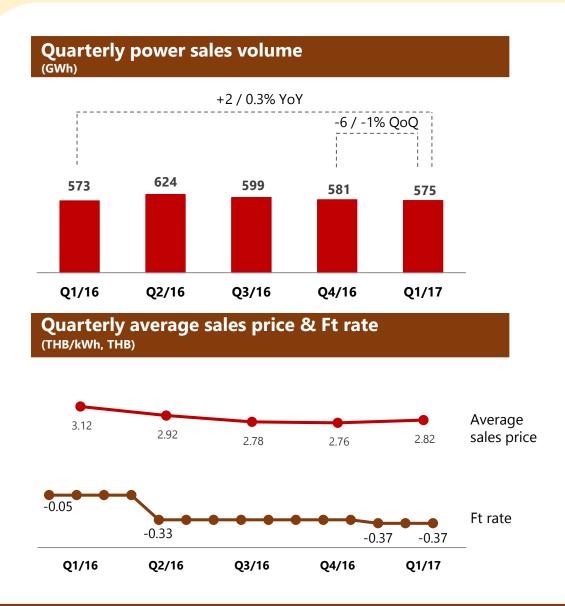
Q1/17 VS Q4/16 (QoQ)

- Total revenue was lower by THB 105 million or 3% due to the volumes of electricity and steam sold decreased by 1% and 11%, respectively. This is because many customers had maintenance shutdowns in Q1/17.
- Gross profit margin increased by 3%. This was mainly from the drop in cost of **maintenance** as there was no maintenance for the machines at CUP-1 and 2 plants in this quarter.

- Total revenue decreased by THB 244 million or 7%, mainly from the average selling price of electricity and steam decreased by 10% and 4%, respectively from decrease in gas price.
- Gross profit margin improved by 2% as the natural gas price was much lower than in O1/16 for approximately 10%.



PSC Rayong Power Plant (SPP): Power (2/3)



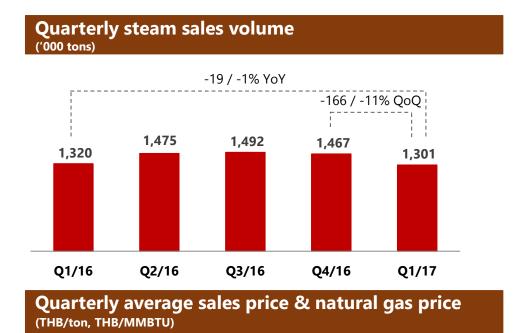
Q1/17 VS Q4/16 (QoQ)

- Volume decreased by 6 GWh from customer's unplanned shutdown.
- Price increased by 0.06 Baht per kWh or 2% due to the increase in natural gas price.

- Volume slightly increased by 2 GWh from the higher demands from customers during Q1/17 compare to Q1/16.
- Price decreased by 0.30 Baht per kWh or 10% due to the decrease in Ft rate.



PSC Rayong Power Plant (SPP): Steam (3/3)





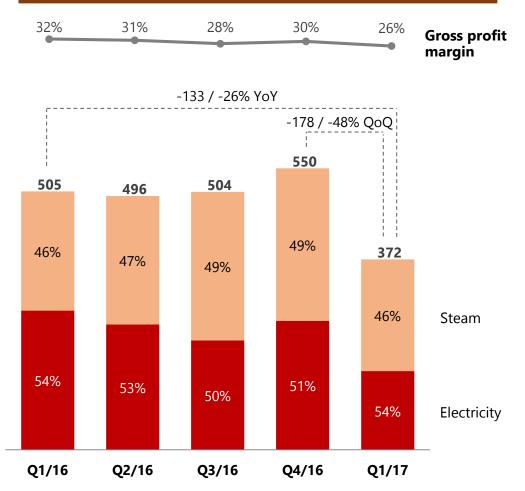
Q1/17 VS Q4/16 (QoQ)

- Volume decreased by 166 thousand tons or 11% in Q1/17 because some customers had maintenance shutdown in Q1/17.
- Price increased by 38 Baht per ton or 4% in Q1/17 due to the increase in natural gas price.

- Volume decreased by 19 thousand tons or 1% due to customer shutdown in Q1/17.
- Price decreased by 49 Baht per ton or 4% due to the decrease in natural gas price.

PSC IRPC - CP Power Plant (SPP): Revenue & GPM (1/3)

Quarterly revenue & gross profit margin (THB Million, %)



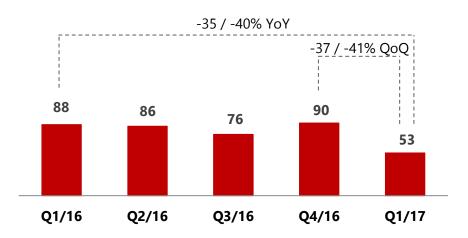
Q1/17 VS Q4/16 (QoQ)

- Total revenue in Q1/17 decreased by THB 178 million or 48% due to the maintenance shutdown from the main customer for a month.
- GPM decreased by 4% due to the increase in cost per unit was higher than the increase in selling price per unit.

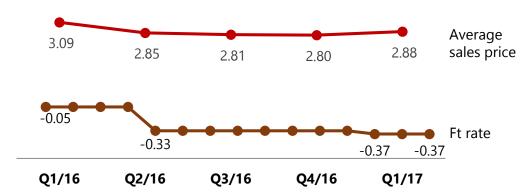
- Total revenue in Q1/17 decreased by THB 133 million or 26% because the one of the main customer had a maintenance shutdown for 1 month.
- Also, the GPM decreased from lower electricity and steam selling prices.

CPSC IRPC - CP Power Plant (SPP): Power (2/3)

Quarterly power sales volume (GWh)



Quarterly average sales price & Ft rate (THB/kWh, THB)



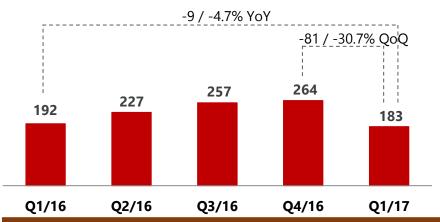
Q1/17 VS Q4/16 (QoQ)

- Volume decreased by 37 GWh or 41% due to a maintenance shutdown of one main customer
- Price increased by 0.08 Baht per kWh or 2.9% due to the increase in k-factor and natural gas price.

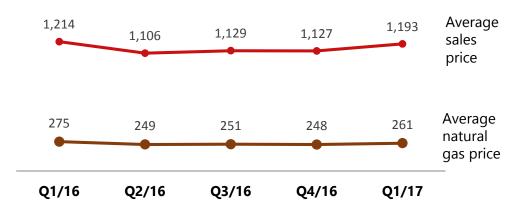
- Volume decreased by 35 GWh or 40% due to the main customer temporarily ceased the operation.
- Price decreased by 0.21 Baht per kWh or 6.8% due to the decrease in Ft rate and natural gas price.

EPSC IRPC - CP Power Plant (SPP): Steam (3/3)

Quarterly steam sales volume ('000 tons)



Quarterly average sales price & natural gas price (THB/ton, THB/MMBTU)



Q1/17 VS Q4/16 (QoQ)

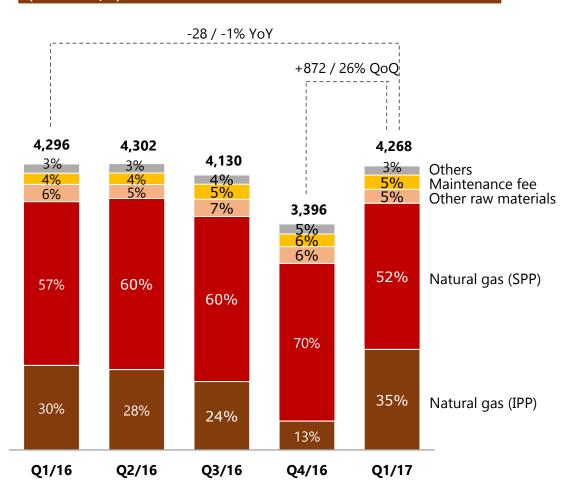
- Volume decreased by 81 thousand tons or 30.7% in Q1/17 due to customer's maintenance shutdown.
- Price increased by 66 Baht per ton or 5.9% in Q1/17 due to the increase in natural gas price.

- Volume decreased by 9 thousand tons or 4.7% due to a main customer had a maintenance shutdown.
- Price decreased by 21 Baht per ton or 1.7% due to the decrease in natural gas price.



PSC Natural gas is main operating cost, increased 26%QoQ

Quarterly cost of sales and services* (THB Million, %)



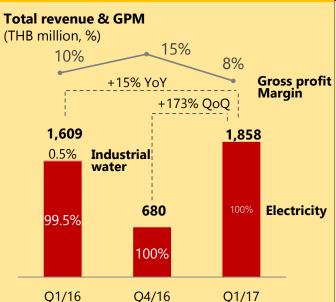
Q1/17 VS Q4/16 (QoQ)

Cost of sales and services in Q1/17 increased by THB 872 million or 26% due to the higher cost of raw materials, mainly natural gas (IPP), in relation to higher dispatch volume of Sriracha plant.

- Cost of sales and services decreased by THB 28 million or 1% due to lower cost of natural gas resulted from the decrease in sales volume of IRPC-CP from a main customer's maintenance shutdown.
- Also, the cost decreased from the price of natural gas which drop YoY following the trend of an oil price.

PSC Q1/17 Revenue and GPM by Major plant



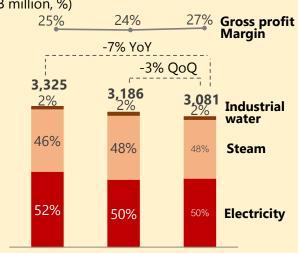


- QoQ: Total revenue was higher by THB 1,178 million mainly from an increase in the dispatch volume while the GPM decreased because of the increase in EP which is the revenue that mainly passes through cost in energy production than generating profit.
- YoY: Total revenue increased by THB 249 million, mainly due to the higher sales volume of electricity submitted to EGAT but GPM decreased from the increase in revenue from EP as well.

Rayong Plant (SPP)

Total revenue & GPM (THB million, %)

01/16



QoQ: Total revenue was lower by THB 105 million due to the volumes of electricity and steam decreased by 1% and 11%. respectively. This is because customers had maintenance shutdowns in Q1/17.

04/16

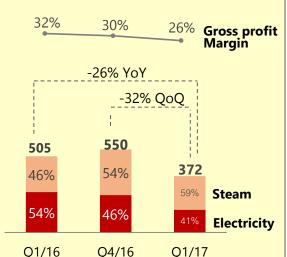
01/17

YoY: Total revenue decreased by THB 244 million, mainly from the average selling price of electricity and steam decreased by 10% and 4%, respectively from decrease in gas price.

IRPC-CP Phase 1 Plant (SPP)

Total revenue & GPM

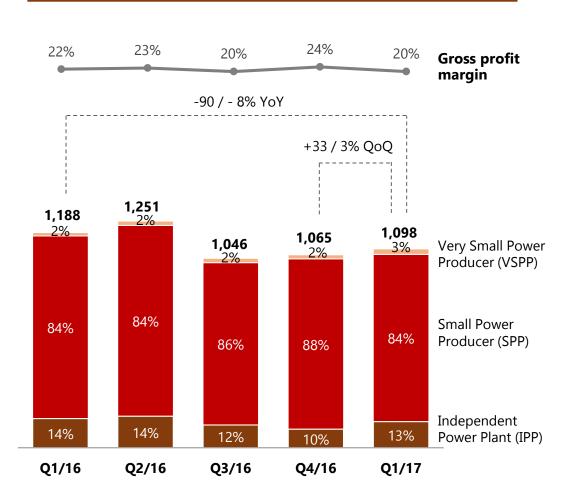
(THB million, %)



- QoQ: Total revenue was lower by THB million mainly from the maintenance shutdown from the main customer for a month.
- **YoY**: The revenue of IRPC-CP Phase 1 in Q1/17 decreased from Q1/16 mainly because the one of the main customer had a maintenance shutdown for 1 month. Also, the GPM decreased from lower electricity and steam selling prices.

PSC SPP is GPSC's main and prospering profit generator

Quarterly gross profit and gross profit margin* (THB Million, %)



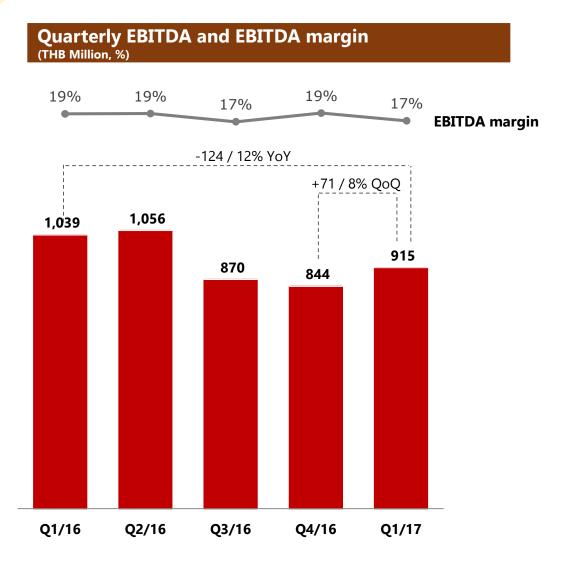
Q1/17 VS Q4/16 (QoQ)

- Gross profit in Q1/17 increased by THB 33 million or 3% due to the increase in availability rate of Sriracha.
- Also, the **lower maintenance cost of CUP** brought about the increase in quarterly gross profit.
- However, **GPM slightly declined** from the **increase in the Energy Payment revenue**, which is the revenue that passes through the cost to EGAT, of Sriracha plant.

Q1/17 VS Q1/16 (YoY)

Compare with Q1/16, gross profit decreased by THB 90 million or 8%. The decrease was mainly from the drop in the profit of IRPC-CP because a major customer had maintenance shutdown in Q1/17.

CPSC EBITDA increased 8% QoQ from efficient cost management



Q1/17 VS Q4/16 (QoQ)

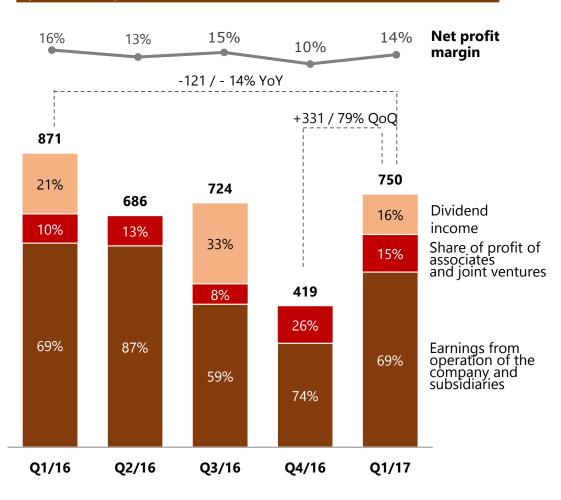
- EBITDA in Q1/17 increased by THB 71 million or 8% to THB 915 million due to better performance of the company's power plants.
- Moreover, the increase in EBITDA caused by the **decrease** in the **selling** and **administrative expenses** relating to the business development costs.

- EBITDA decreased by THB 124 million or 12% due to the decrease in operating profit from maintenance shutdown of IRPC's main customer during Q1/17.
- Also, the increase in business development costs resulted in the drop in the EBITDA in Q1/17.



Net profit grew 79% QoQ from strong operating earnings and supported by returns from investments

Quarterly net profit and net profit margin (THB Million, %)



Q1/17 VS Q4/16 (QoQ)

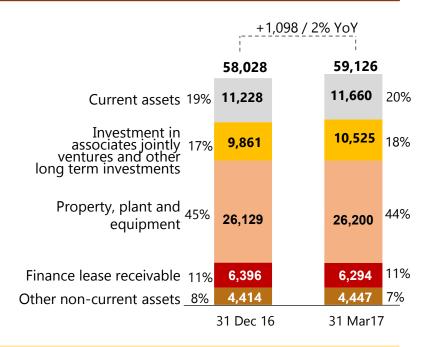
- The net profit increased by THB 331 million or 79% from the continuously efficient cost management and the decrease in maintenance cost of Rayong CUP.
- Furthermore, the increase in the availability rate at Sriracha plant contributed to higher profit.
- Also, GPSC received dividend income from RPCL for THB 120 million.

- Net profit decreased by THB 121 million or 14% due to the dividend income from RPCL was lower than in Q1/16 by THB 60 million.
- Moreover, the drop in profits from IRPC-CP and Rayong CUP caused by the customers' maintenance shutdowns decreased GPSC's overall net profit in Q1/17.



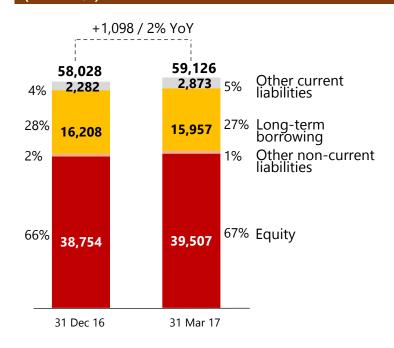
Summary of financial position of GPSC and its subsidiaries

Total Assets (THB Million)



- Total assets increased by THB 1,098 million or 2% from THB 58,028 million to THB 59,126 million in Q1/17.
- The increase was mainly from the increase in investment in XPCL for THB 645 million, GPSC hold 25% of shares, and the increase in fixed assets of the power plant during Q1/17.

Total Liabilities & Shareholders equity (THB million)



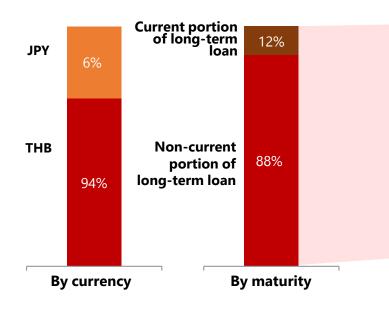
- Total liabilities increased by THB 345 million or 2% to THB 19,619 million due to the increase in the payable balance resulted from higher natural gas consumption from Sriracha plant.
- Equity increased by THB 753 million or 2% to THB 39,507 million from an increase in retained earnings thanks to the growths of from operating performance.



SPSC Well-managed debt profile and continuous deleveraging

Debt profile

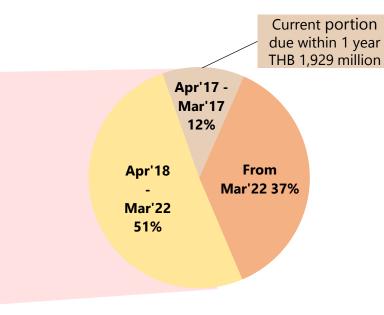
Total interest-bearing debt: THB 15,957 Million



All debt balance as at 31 March 2017 is in THB and JPY currency.

• 100% of total interest-bearing debt is long-term loan which includes 12% of current portion.

Debt repayment plan



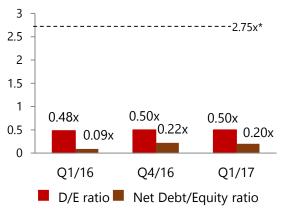
% to total interest-bearing debt

- **Non-current portion** of long-term debt equals to THB 14,028 million while current portion equals to THB 1,929 million.
- 51% of total interest-bearing debt will be repaid between April 2018 - March 2022.

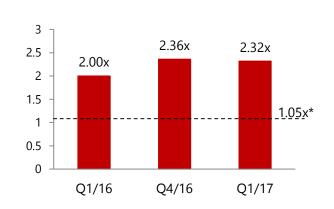


PSC Key financial ratio support GPSC's strong financial position

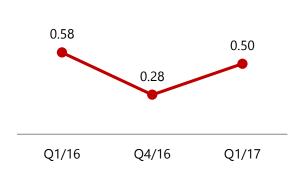




DSCR (Times)

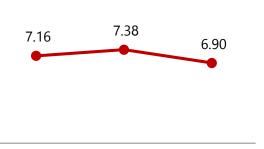


Earning per share (EPS) (Baht/share)



ROE (%)

Q1/16

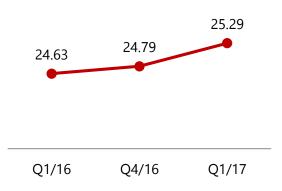


Q4/16

ROA (%)



Book value per share (BVPS) (Baht/share)



01/17







CHPP Solar Cooperatives has started COD as planned with the first full quarter to realize revenue in Q1 2017







- ✓ CHPP Solar Cooperatives starts COD on 30 December
 2016 as planned with operating capacity of 5 MW
- ✓ Securing Feed-in-Tariff (FiT) at 5.66 THB per unit along 25 years of contract with Provincial Electricity Authority (PEA)
- ✓ Q1 2017 will be the first full quarter that performance of CHPP Solar Cooperatives will be consolidated to GPSC

Shareholding





PSC IRPC Clean Power Phase 2 (IRPC-CP Phase 2)





IRPC Clean Power Company Limited (IRPC-CP)

In IRPC Industrial Zone at Choeng Noen, Rayong Province (118 Rai)





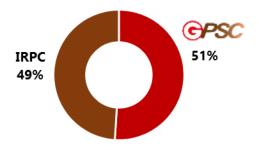
Туре	SPP Cogeneration
Capacity*	Electricity: 240 MWSteam: 180-300 T/H
Customer*	 Electricity: EGAT 2x90 MW (25 years), IRPC 60 MW (27 years) Steam: IRPC 180-300 T/H
SCOD	2017
Total Investment	13,600 THB Million
D/E	3:1
	Capacity* Customer* SCOD Total Investment

Progress update

Phase 2 Under Construction

- Construction progress of the project was 95%.
- Under construction of 230 kV transmission line.

Shareholding



EPSC Bangpa-In Cogeneration Phase 2 (BIC-2)





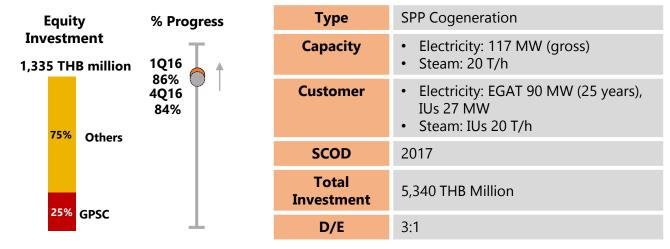






Bangpa-In Cogeneration Company Limited (Phase 2)

Ayutthaya Province



Progress update

- Construction progress of the project was 86%.
- Fuel gas-introduced to gas compressor and gas turbine first firing test have been completed. Plant performance test and trial run plan will be proceeded for the next stage.



CPSC Ichinoseki Solar Power (ISP1)



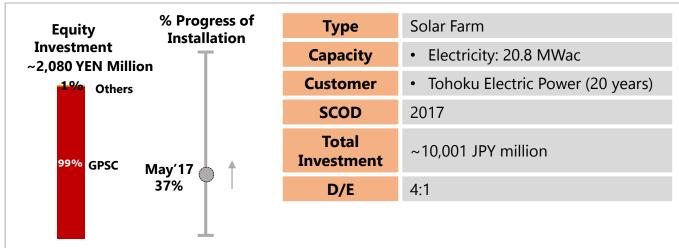






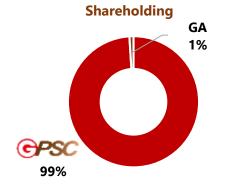
ICHINOSEKI Ichinoseki Solar Power (ISP1)

SOLAR POWER 1 GK Ichinoseki City, Japan



Progress update

- Secure FiT at 40 JPY/kWh (exclude tax) for 20 years
- Foundation work and solar panel installation have already started in some area.
- GPSC first international project to COD in 2017



©PSC Nam Lik 1 Power Company Limited (NL1PC)

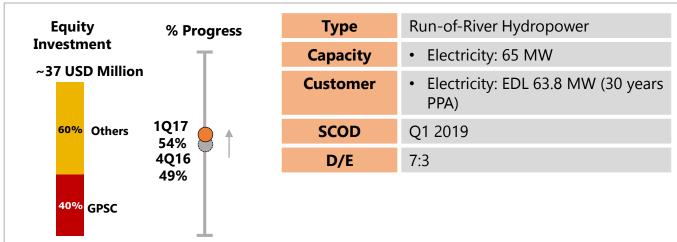




Nam Lik 1 Power Company Limited (NL1PC) Lao PDR

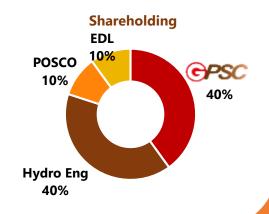






Progress update

 Construction progress of the project was 54%. NL1PC suggests EPC contractor to engage experience sub-contractor to be responsible for civil work.





PSC Xayaburi Power Company Limited (XPCL)

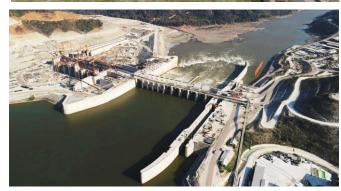


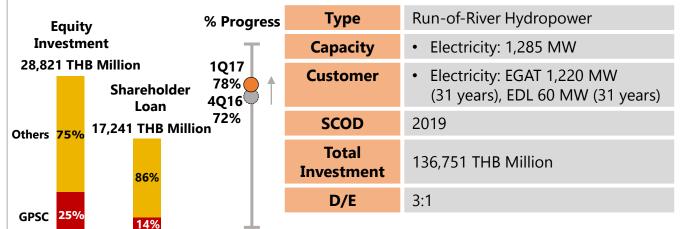


Xayaburi Power Company Limited (XPCL)

Xayaburi, Lao PDR

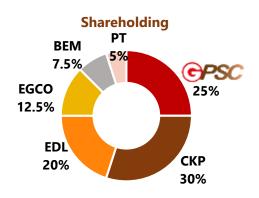






Progress update

- Construction progress of the project was 78% evaluated by GOL's technical advisor, which concluded that the project is on schedule.
- The permanent structure such as powerhouse, intermediate block, fish passing facilities are progressing well.





XPCL Project improvement according to environmental concerns





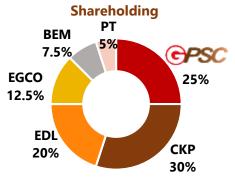


Xayaburi, Lao PDR

The additional requirements from Lao PDR's Government upon an environmental concerns in constructing XPCL power plant has caused an incremental construction costs. Therefore, the Government granted XPCL the compensations which are:

- ✓ Decrease of corporate income tax
- ✓ Decrease of royalty fee
- ✓ Extend concession period for another 2 years (after COD date); Total 31 years







CUP-1

-2

CPSC Map Ta Phut Expansion Project

Grow with PTT: Be PTT Group's Power in Petrochemical Complex



Rayong Power Plant Rayong Province







Туре	Cogeneration
Capacity	 CUP-1 Electricity: 226 MW Steam: 890 T/h Industrial water: 720 Cu.m/h CUP-2 Cu.m/H Industrial water: 510 Cu.m/h CUP-3 Steam: 280 T/h Industrial water: 770 Cu.m/h
Customer	PTT GroupOther IU CustomersEGAT
COD	2006-2009
Contract	 CUP-1: 10-15 years ++ CUP-2: 15 years ++ CUP-3: 15 years ++
AlE	Sukhumwi Ro.

Shareholding



CPSC Waste to Energy Project





Waste Management Project

Rayong Province



Туре	RDF	Waste to energy Power Plant (Future Development)
Capacity	Treat MSW at least 500 ton/day	Electricity 8 MW
Customer	RDF Power Plant/ Cement Plant	PEA
Contract	Waste Management Contract between GPSC & Rayong PAO (Secured feedstock)	PPA under Feed-in-tariff scheme

Progress update

- Under the Public and Private Partnership (PPP), the Waste Management Contract is being proved by the Attorney General Thailand
- During process of apply PPA under Feed-in-tariff scheme
- ESA/CoP has been finished
- Completed Basic Engineering Design Package (BED)
- December 28, 2016, GPSC already signed the Rayong Integrated Waste Management by Private Operator Contract (by converting to RDF) with Rayong Provincial Administration Organization for 22 years

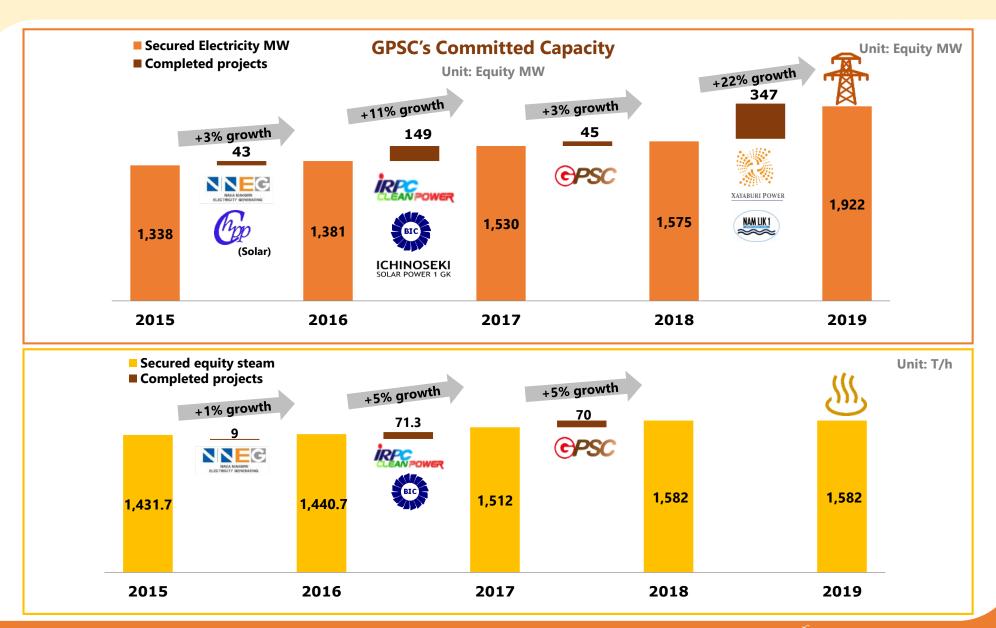
Shareholding



Organic waste : Composting Plant

Municipal Solid Waste (MSW) input

PSC GPSC will deliver outstanding growth during 2017-2019



GPSC Growth Strategies

Maximize

Optimize and Manage cost on existing operating asset

Manage

Project Management / Portfolio Management

Move

Grow with PTT & Domestic



- Be PTT Group's power supplier of choice
- New customers in Thailand
- Positioned for new Energy Policy

3 Growth Engines

International Business



- Focus countries
- Enhance country knowledge and relationship
- Strategic partners

Future Energy



- power grid generation
- Smart grids for smart cities

New Organization / Process to support the model



THANK YOU

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Ratios	Formula						
Construction of the second in	Gross profit						
Gross profit margin	Revenue from sales of goods and service + Revenue from finance lease						
	Net profit						
Net profit margin	Total Revenue						
Total Dobt to Favity	Total liabilities						
Total Debt to Equity	Total shareholder's equity						
Net debt to Equity ratio	Interest bearing debts – (Cash and cash equivalents + Restricted cash + Current investments)						
Net debt to Equity ratio	Total shareholder's equity						
DCCD	EBITDA for DSCR for the last 12 months						
DSCR	Principal and Interest to be paid in the next 12 months						
F : (FDC)	Net profit for the company						
Earning per share (EPS)	Weighted average number of shares						
DOE	Net profit for the company						
ROE	Average shareholder's equity						
DOA	Net profit (last 12 months)						
ROA	Average assets						
De alcuelus mar share (DV/DC)	Shareholder's equity for the company						
Book value per share (BVPS)	Average shareholder's equity for the company						



EPSC 2017 Maintenance schedule: Sriracha and Rayong plants

								20)17					
Plant	Tag no.	Description		Q1			Q2		Q3			Q4		
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CUP-1	H-13701	Aux. Boiler.11			1Y 2	2-12/3								
	N-13901 H-13702	GTG11 HRSG11		1Y 18										
	N-13902 H-13703	GTG12 HRSG12				HG 30/3-1								
	N-13903 H-13704	GTG13 HRSG13		13-26/	3 PSV 2	3-26/3	10-20	/6 1Y	1Y 4	-14/7				
	N-13904 H-13705	GTG14 HRSG14		13-26/ 1Y 3	3 PSV 2: -13/2	3-26/3						1Y 1	5-25/10	
	N-13961 H-13761	GTG15 HRSG15												
	N-13962 H-13762	GTG16 HRSG16	8 MI 29 8 3Y 29											
CUP-2	H-23701	Aux. Boiler.21					16-26	/6 1Y	1Y 1-	11/7				
	N-23901 H-23701	GTG21 HRSG21					16-26	/6 <mark>1Y</mark>						11-21/12 [1Y]
	N-23902 H-23702	GTG22 HRSG22						/6 1Y /6 3Y					HG 1- 3Y 1-	14/11 14/11
	N-23911	Steam Turbine21					16-30	/6 MI					MI 16	-30/11
CUP-3	H-33701	Aux. Boiler 31								3Y 1	l-13/8			
	H-33711	Aux. Boiler 32										3Y	1-13/10	
	H-33712	Aux. Boiler 33									3Y 15	-27/9		
SRC	11MB 1-211-SG-101	GT11 HRSG#1											1Y	
	12MB 1-211-SG-201	GT12 HRSG#2											1Y	
Notes MI		ong Site or Inspection for Gas Tur			22 d	ays	No CI	tes	Sriracha Combustio		or Gas Turbine		9	days

Notes	Rayong Site		Notes	Sriracha Site	
MI	Major Inspection for Gas Turbine	22 days	CI	Combustion Inspection for Gas Turbine	9 days
HGPI	Hot Gas Path Inspection for Gas Turbine	14 days	1Y	One Year Inspection HRSG	8 days
MO	2nd Major Overhaul for Steam Turbine	27 days			•
Mi	Minor Inspection for Steam Turbine	15 days	,		
1Y	One Year Inspection Aux. Boiler	11 days	Maint	tenance schedule as of 4Q16	
3Y	Three Year Inspection Aux. Boiler	13 days			



Maintenance schedule: IRPC-CP

							20	16					
Plant Unit			Q1			Q2			Q3			Q4	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
IRPC-CP	CTG 2B								22/	09 A 30	/09		
	HRSG2B								22/	709 YI 30	/09		
	Aux. Boiler				23/0)5 YI 27/	05						

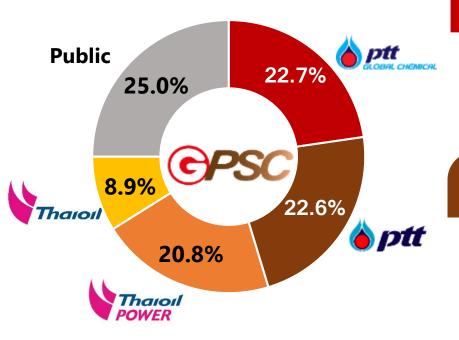
Notes

A Level A inspection 5 days
YI Yearly inspection 5 days

							20	17						
Plant Unit			Q1			Q2			Q3			Q4	Dec	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
IRPC-CP	CTG 2B	12/	02 IRPC Turnarou	13/03			27/06	1st Synchron	ization/Com	missioning	16/09			
	HRSG2B	12/	02 IRPC Turnarour	13/03			27/06	1st Synchron	ization/Com	missioning	16/09			
	Aux. Boiler	7/02	2 IRPC Turnaroun	7/03			26 SD 30)						

CPSC Vision & Mission

GPSC's Shareholding Structure



Vision

'The Global Leading innovative and sustainable power company'

Mission

- Create long term shareholders value with **profitable growth**.
- **<u>Delivery reliable energy</u>** through operation excellent to customer.
- Conduct business with <u>corporate governance</u>, <u>social and environmental responsibility</u>
- Seek for innovation in power and utility efficient management through <u>Energy Storage Technology/ Smart Grid/Smart City</u>



Power Plant Definition and Revenue Structure

IPP

Independent Power Producer (IPP):

- A larger power producer who has electricity capacity more than 90 MW
- IPPs are obliged to sell their entire output to EGAT

SPP

Small Power Producer (SPP):

 A small power producer who sell their electricity no more than or equal to 90 MW to EGAT

SPP Type

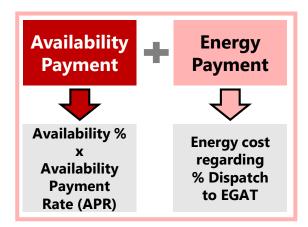
Firm : Contract Term > 5 Years Non-Firm : Contract Term <= 5 Years

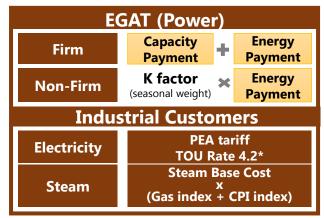
 SPPs can sell their electricity and steam to industrial customers located next to the SPP plant

VSPP

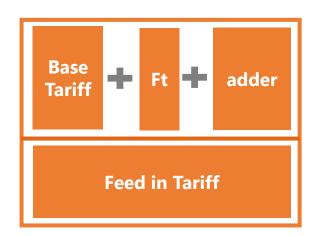
Very Small Power Producer (VSPP):

- A very small generator whose power generating process is generated from renewable energy, specific fuels, and energy with no more than 10 MW of electricity capacity
- VSPPs are able to sell power to the Distribution Utility



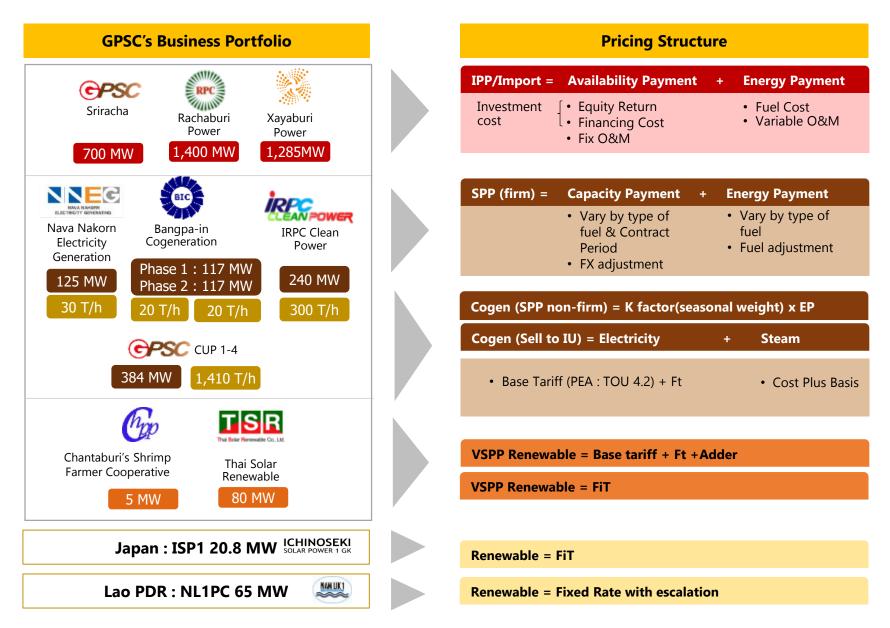


*https://www.pea.co.th/Documents/Rate2015.pdf Reference rate with conditions





Pricing structure for each type of GPSC's power plant





©PSC Details of GPSC Group's Power Plants

Name	Туре	GPSC's	Total capacity (MW)	Equity capacity (MW)	Steam (T/H)	Industrial water (Cu.m/H)	COD	Tenor
IN OPERATION		Silai E 70		(14144)	(1/11)	(Cu.III/II)		
Sriracha	IPP	100%	700	700		80	2000	25/2025
CUP-1	SPP	100%	226	226	890	720	2006	10-15/2021++
CUP-2	SPP	100%	113	113	170	510	2008	15/2022++
CUP-3	SPP	100%	-		280	770	2009	15/2023++
CHPP	VSPP	100%	5	5		-	2008	30/2038
IRPC-CP Phase 1	SPP	51%	45	23	86.7	-	2015	25/2040
CHPP (Solar)	VSPP	100%	5	5			2016	2041
Consolidate to Fire	nancial St	atement		1072	1427	2080		
TSR	Renew	40%	80	32		-	2013	25/2038
NNEG	SPP	30%	125	38	9		2016	25/2041
BIC-1	SPP	25%	117	29.25	5	-	2013	25/2038
RPCL	IPP	15%	1,400	210		-	2008	25/2033
Share of	Profit / D	ividend Inco	ome	309	14			
			Total operating	1,381	1,441	2,080		
UNDER CONSTRUCT	ION							
CUP-4	SPP	100%	45	45	70			-
ISP1	Solar	99%	20.8	20.6			2017	20/2037
IRPC-CP Phase 2	SPP	51%	195	99.4	66.3		2017	25-27/2044
NL1PC	Hydro	40%	65	26			2019	27/2044
BIC-2	SPP	25%	117	29.25	5		2017	25/2042
XPCL	IPP	25%	1,285	321			2019	29/2048
		Total und	er construction	541.3	141.3			
			Total capacity	1,922	1,582	2,080		



PSC 24M Technologies, Inc. (24M)



24M Technologies, Inc. (24M) Cambridge, Massachusetts (MA), USA

Business Lithium-Ion Battery technology **Application** Energy Storage System (ESS)

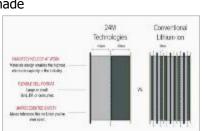
•	•	•	•	•	•
2010	2011	2012	2013	2014	2015
24M was established	Developed 5x thicker electrodes than previously	Developed end to end cell production	Automated line eliminates coating, drying etc.	funded > \$50 9000 th Experiment and Sample Cells has been made	Proven key high volume unit operation
	possible				288 Consort

Progress update

- On October'16, 24M Delivers Initial Quantity of Production-size Semisolid Lithium-ion Cells to NEC Energy Solutions (NECES) for Testing and Validation.
 - Currently, 24M is working on the **developing of High Volume Manufacturing production line.**

Awards & Recognition

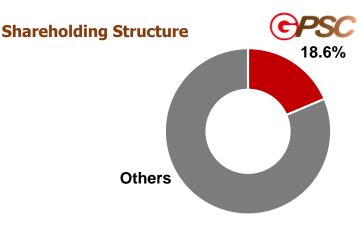
- Throughout 2016, 24M has received many awards and recognition. For example:
 - 2016 Energy Innovation Pioneers: CERAWEEK, HIS Energy
 - 2016 New Energy Pioneers: Future of Energy Summit, BENF
 - Listed in "50 Smartest Companies 2016": MIT Technology Review
 - 2016 Platts Global Energy Awards finalists: Breakthrough Solution of the Year
 - 2016 Zayed Future Energy Prize finalists



2016 - 2017

Leverage existing investment





Total Investment of GPSC Portion

~22 USD million