



Q2 2016 Results Presentation Opportunity Day

23rd August 2016

11.8% committed CAGR

In Q2/16, GPSC has been recognizing **more revenue from the SPPs** and will gain more revenue from the under construction power plants once completed. GPSC's existing committed projects will add 546 MW more to achieve 1,922 operating MW by 2019, marking 11.8% committed CAGR within 3 years.

THB 686 Million in profit

Net profit of Q2/16 decreased by THB 185 million from Q1/16 mainly due to there was a dividend income amounting to THB 180 million from RPCL in Q1/16. However, **GPSC achieved significant higher net profit in**

Profit

1H2016 by THB 552 million or 55% from 1H2015 from production capacity expansion and plant optimization.

GPSC in SET50 Index

Sustainability

GPSC operates business following standards of corporate governance and fair disclosure of information contributing to the awards & recognitions received from the stakeholders including ESG100, Best CFO Awards, Investors' Choice Award and currently was included in SET50.

Control

NNEG COD as planned

NNEG started **COD** on **3 June 2016** as planned with operating capacity of 125 MW and steam capacity at 30 T/h. GPSC's Management team ensure efficient project management and high competent staffs, both domestic and international projects in order to meet the construction schedule.



SPSC GPSC's facilities produce electricity of 1,922 MW

BUSINESS PORTFOLIO



Combined Cycle / Cogeneration

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

Capacity

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 1,376 MW, under constriction 546 MW)

INDUSTRIAL WATER

2,080 Cu.m./H

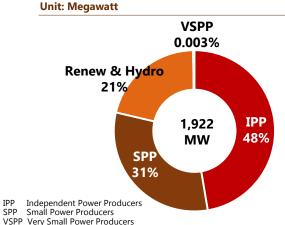
STEAM

1,582 T/H (operate 1,441 <u>T/H)</u>

CHILLED WATER

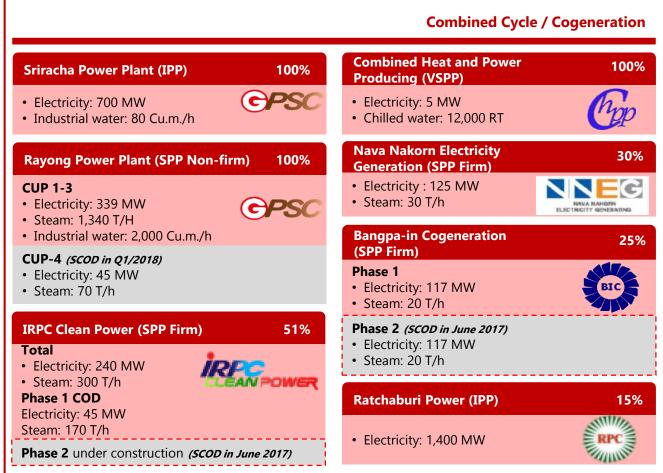
12,000 RT

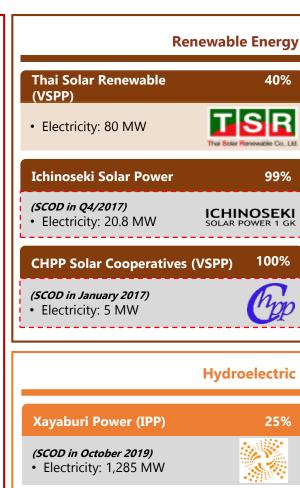
ELECTRICITY CAPACITY BREAKDOWN



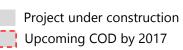
EPSC

GPSC's Business Portfolio









40%

NAM LIK 1

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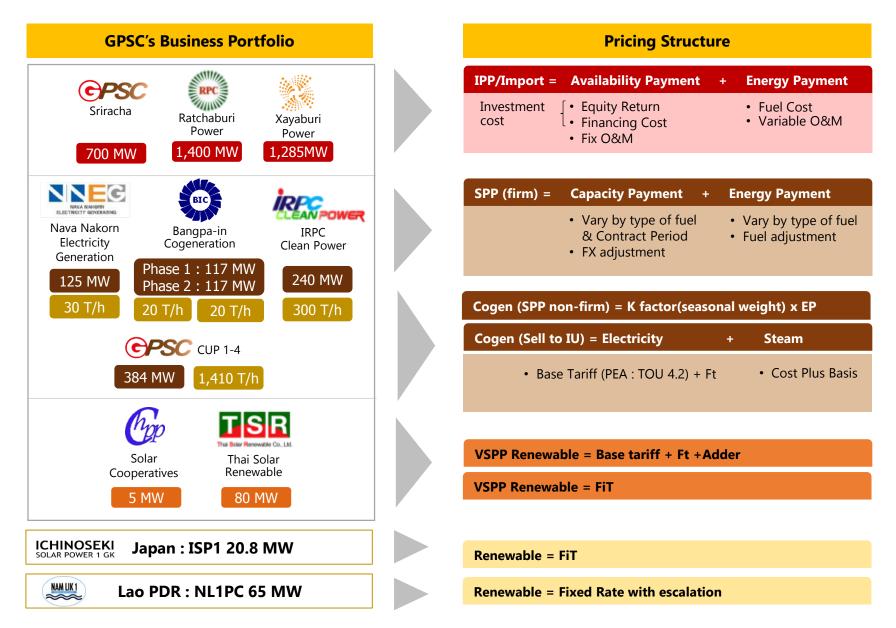
Nam Lik 1 Power

• Electricity: 65 MW

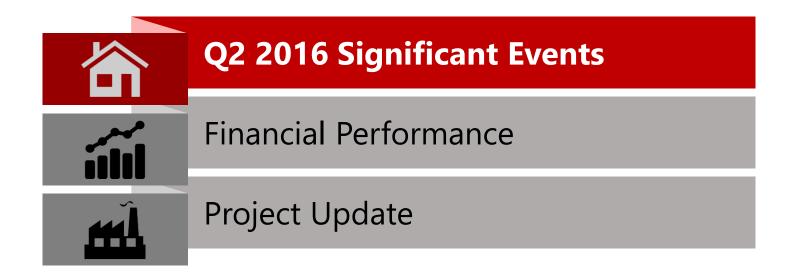
(SCOD in 2018)



Pricing structure for each type of GPSC's power plant









GPSC has been included in SET50 for 2H16 reflecting company's performance



- IPO in May 2015, GPSC have been growing our business with continuously increased market capitalization.
- Starting from November 2015 where GPSC has been included in the Global standard, namely MSCI Index.
- GPSC was classified to be in SET100 in January 2016 and recently in July 2016 qualified as SET50.
- In April 2016, GPSC has been shortlisted in ESG 100 as one of 100 companies listed in SET with sustainable business by Thaipat Institute
- These are the results of confidence on GPSC performance from all stakeholders.



C GPSC's Awards and Recognitions



15Jul16: SET congratulates GPSC on being listed in **SET50**



27Jul16: Investors' Choice Award from Thai Investor Association





14Jul16: "Best CFO" award from IAA



29Apr16: Listed on 2016 ESG 100 Sustainable Business



NNEG has started COD as planned with a promising revenue generating



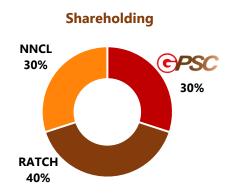




Nava Nakorn Electricity Generating Company Limited (NNEG)

Pathumthani Province

- ✓ NNEG starts COD on 3 June 2016 as planned with operating capacity of 125 MW and steam capacity at 30 T/h
- ✓ In this Q2 2016, one month after COD, **NNEG generates** revenue from selling of electricity and steam account for **172 THB million**
- ✓ GPSC recognized the profit per the shareholding percentage and presented as the shares of profit of the joint ventures in the statement of income





XPCL receives subsidies from Lao PDR's Government to compensate for higher cost for environmental concerns





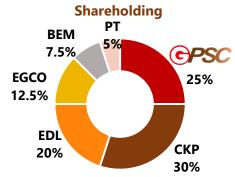


Xayaburi Power Company Limited (XPCL) *Xayaburi, Lao PDR*

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:

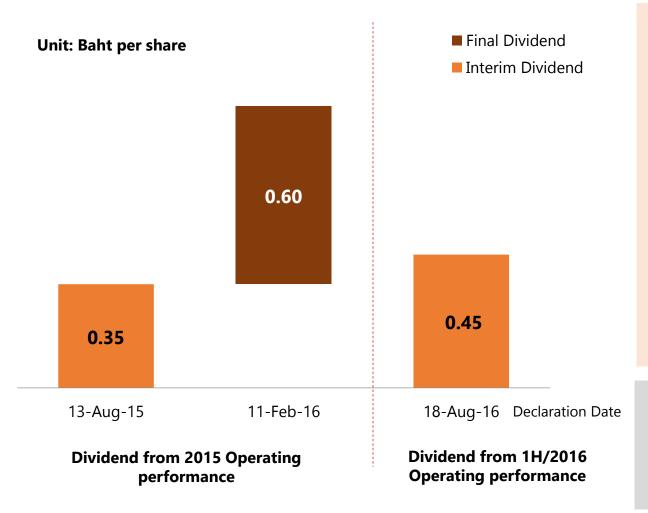
- ✓ Decrease of corporate income tax
- ✓ Decrease of royalty fee
- ✓ Extend concession period for another 2 years (after COD date); Total 31 years







2016 Interim dividend will be 43% of 1H/2016 net income



- On 18 August 2016, BOD approved a resolution for the payment of interim dividend for 1H/2016.
- The dividend per share is 0.45 Baht which is higher than 2015 interim dividend, resulting from the better operating results.
- The Record Date will be on 1 September
 2016 for the right to receive the dividend.
- The dividend payment date will be on 14 September 2016.
- The dividend will be paid from the tax exemption profit portion wherein individual shareholders shall not include as taxable income and not be entitled to a dividend tax credit.
- Dividend Policy:
 Minimum of 30% of net income
 according to a financial statement, after
 deductions of tax, reserve capital
 requirement (with additional conditions)

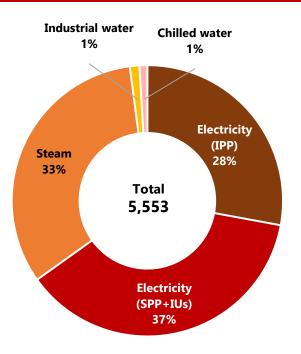






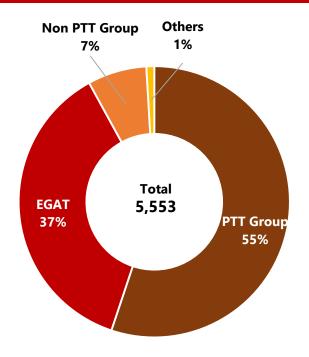
Majority of GPSC's revenue is from electricity, PTT Group is GPSC's major customer

Q2/16 Revenue by product (THB million)



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

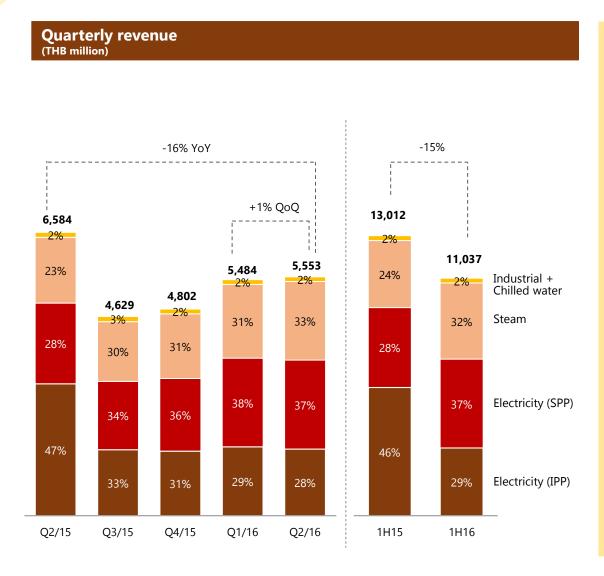
Q2/16 Revenue by customer (THB million)



 Accounted for more than 50% of total revenue, PTT Group is the largest customer of GPSC in Q2/16.



Q2/16 Revenue of THB 5,553 million, increased 1% QoQ



Q2/16 VS Q1/16 (QoQ)

- Operating revenue in Q2/16 increased by THB 69 million or 1%.
- The increase were mainly caused by higher sales volume from the company's operating power plants.

Q2/16 VS Q2/15 (YoY)

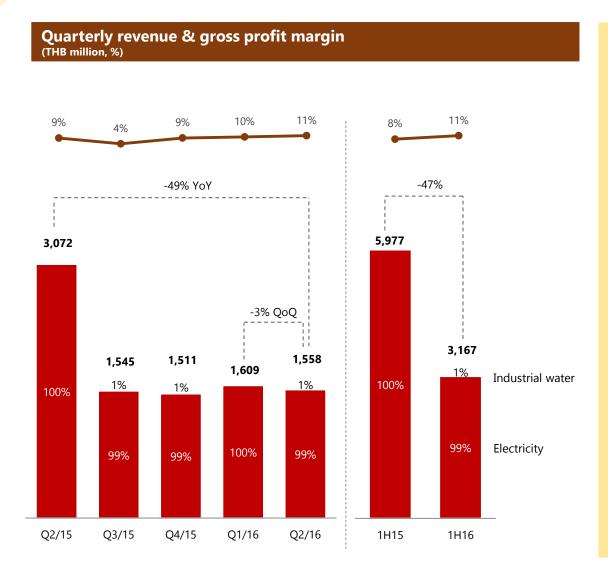
- Operating revenue in Q2/16 decreased by THB 1,031 million or 16%.
- The decrease was due to the decline in revenue from Energy Payment (EP), from the lower sales volume of Sriracha plant and the lower sales price due to the reduction of Ft.

1H16 VS 1H15

Operating revenue in 1H16 decreased by THB 1,975 million or 15% from lower sales volume to EGAT of Sriracha plant and the declining in the sales price followed the reduction in gas price.



Sriracha plant revenue breakdown & GPM (1/3)



Q2/16 VS Q1/16 (QoQ)

- Total revenue in Q2/16 decreased by THB 51 million or 3% due to lower selling price resulted from lower gas price than in Q1/16.
- Gross profit increased by THB 14 million or 9% due to higher availability rate, weight factor and sales volume.

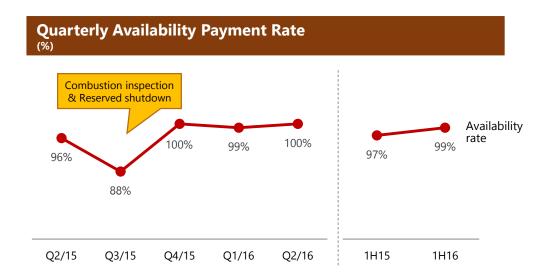
Q2/16 VS Q2/15 (YoY)

- Total revenue in Q2/16 decreased by THB 1,514 million or 49% from lower sales volume per EGAT's dispatch instruction and the lower sales price due to reduction of gas price.
- Gross profit also decreased by THB 95 million or 35% due to the lower sales volume per EGAT's dispatch instructions.
- However, gross profit margin increased by 2% because of the lower variable maintenance cost by the decreases in the production volume.

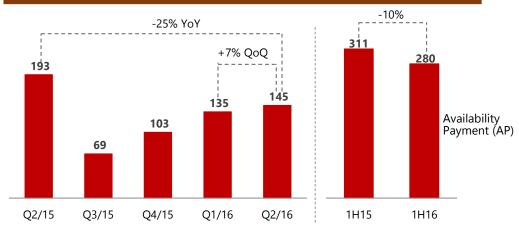
- Total revenue in 1H16 decreased by THB 2,810 million or 47% because of lower dispatch and sales prices.
- Gross profit margin increased by 3% resulted from the lower maintenance cost caused by the lower production volume.



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







Q2/16 VS Q1/16 (QoQ)

- Availability payment rate in Q2/16 increased to almost 100% thanks to an improvement in plant management.
- Revenue from Availability Payment (AP) in Q2/16 increased by THB 10 million or 7% from higher weight factor, mainly affected by the increase in demand of power consumption in Q2/16.

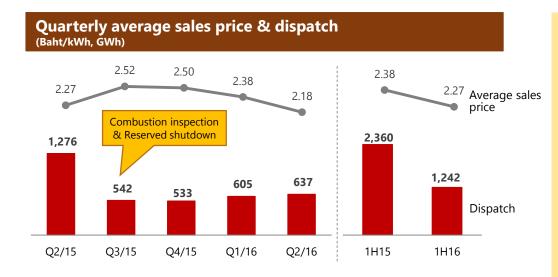
Q2/16 VS Q2/15 (YoY)

- Availability payment rate in Q2/16 increased by 4% from Q2/15 when there was scheduled plant shutdown for inspection.
- Revenue from Availability payment decreased by THB 48 million or 25% due to the lower weight factor in 2016 than in 2015.

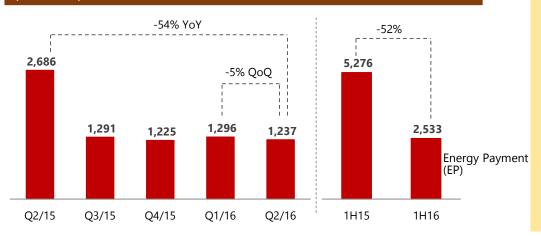
- Availability payment rate in 1H16 increased by 2% from higher reserved capacity for EGAT.
- However, revenue from AP decreased by THB 31 million or 10% resulted from the lower weight factor in 2016 than in 2015.



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



Quarterly revenue from Energy payment (EP) (THB million)



Q2/16 VS Q1/16 (QoQ)

- Average sales price in Q2/16 decreased by 0.20 Baht per kWh, from the lowering of gas price.
- In Q2/16, dispatch volume increased by 32 GWh or 5% because of the higher submitted electricity volume per EGAT's instruction.
- Revenue from Energy Payment (EP) decreased by THB 59 million or 5% from reduction of gas price.

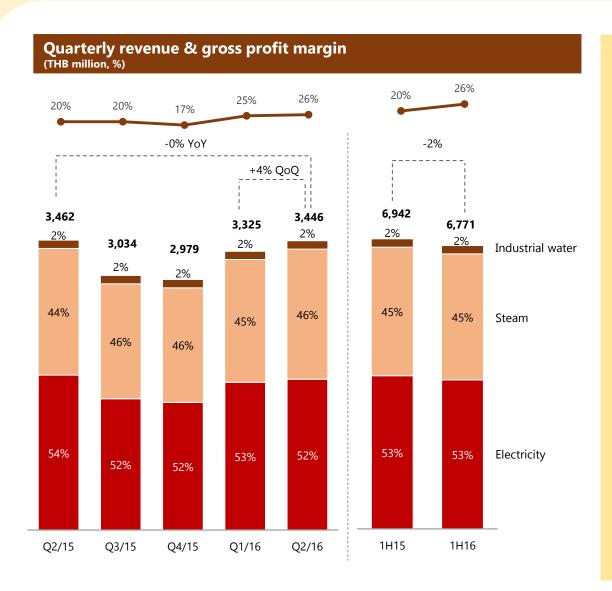
Q2/16 VS Q2/15 (YoY)

- Average sales price in Q2/16 decreased by 0.09 Baht per kWh or 4% from Q2/15 from the lower gas price.
- Dispatch volume also significantly decreased by 636 GWh or 50% resulted from the decrease in sales volumes per EGAT's instruction.
- As a result, revenue from EP decreased by THB 1.449 million or 54%.

- Average sales price in 1H16 decreased by 0.11 Baht per kWh or 4%, resulted from the decrease in gas price.
- Also, dispatch volume dramatically decreased by 1,118 GWh or 47%.
- Revenue from EP in 1H16 decreased by THB 2,743 million or 52% from lower sales price and sales volume.



Rayong plant revenue breakdown & GPM (1/3)



Q2/16 VS Q1/16 (QoQ)

- Total revenue in Q2/16 increased by THB 121 million or 4% from higher sales volume from the increases in the demands
- Also, gross profit increased by THB 50 million or 6% and GPM increased by 1% due to higher sales volume.

Q2/16 VS Q2/15 (YoY)

- Total revenue in Q2/16 slightly decreased by THB 16 million or 0.5% from a decrease in the sales price of both electricity and steam caused by the drop in Ft rate and natural gas price.
- However, gross profit in Q2/16 increased by THB 189 million or 27% and GPM increased by 6%

- Total revenue in 1H16 decreased by THB 171 million or 2% from a decrease in the sales price from the reduction in Ft rate and natural gas price.
- Gross profit significantly increased by THB 337 million or 24% and GPM increased by 6% because of the increase in the sales volume and better cost management.

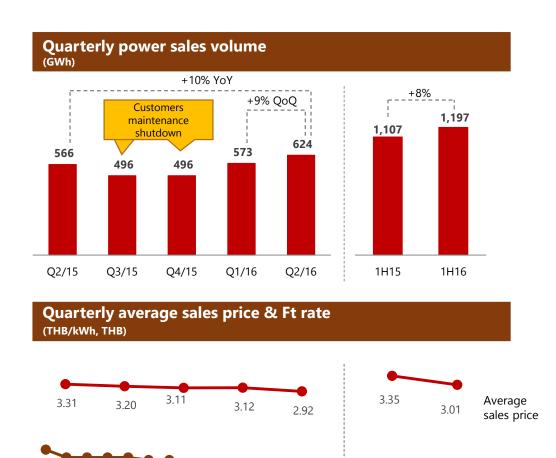


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Q3/15

Q2/15

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



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Q1/16

Q4/15

Q2/16 VS Q1/16 (QoQ)

- **Volume**: increased by 51 GWh or 9% due to higher demands from EGAT and one customer started commissioning in Feb 2016.
- **Price**: decreased by 0.20 Baht per kWh or 6% due to the decreases in Ft rate and natural gas price.

Q2/16 VS Q2/15 (YoY)

- **Volume**: increased by 58 GWh or 10% resulted from higher demands from customers following the growth of the economy and warmer climate.
- **Price**: decreased by 0.39 Baht per kWh or 12% due to the decreases in Ft rate and natural gas price.

1H16 VS 1H15

- **Volume**: increased by 90 GWh or 8% from higher demands from existing and new customers while there was power plant shutdown for inspection in Q1/15.
- **Price**: decreased by 0.34 Baht per kWh or 10% due to the decreases in Ft rate and natural gas price.

1H16

-0.14 Ft rate

0.56

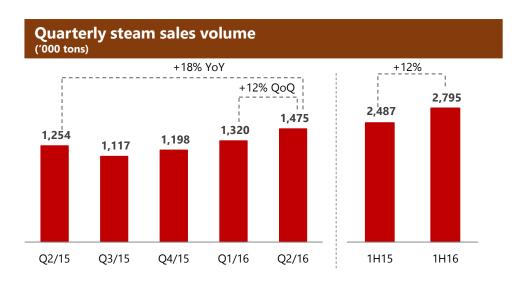
1H15

-0.33 -0.33

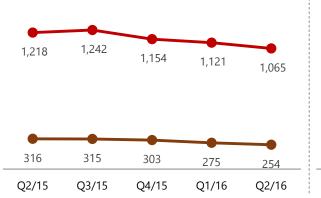
Q2/16

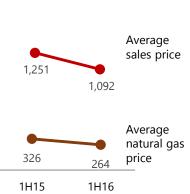


Rayong Power Plant (SPP): Steam (3/3)



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





Q2/16 VS Q1/16 (QoQ)

- Volume: increased by 155 thousand tons or 12% in Q2/16 resulted from higher demands from existing customer who started commissioning in Feb 2016.
- **Price**: decreased by 56 Baht per ton or 5% in Q2/16 due to the decreases in natural gas price.

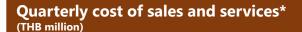
Q2/16 VS Q2/15 (YoY)

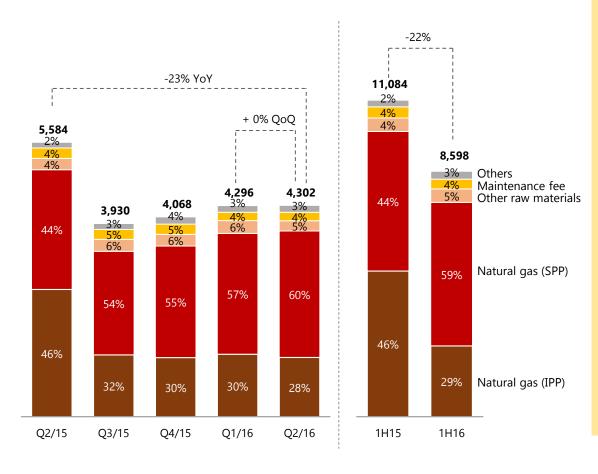
- **Volume**: increased by 221 thousand tons or 18% from higher demands from customers since there was no customer's plant shutdown and full operation after commissioning.
- **Price**: decreased by 153 Baht per ton or 13% due to the decrease in natural gas price.

- **Volume**: increased by 308 thousand tons or 12% in 1H16 resulted from higher demands from the existing and new customers.
- **Price**: decreased by 159 Baht per ton or 13% following the decrease in natural gas price.



Decrease in cost of sales and services YoY mainly from lower gas price and plant optimization





Q2/16 VS Q1/16 (QoQ)

- Cost of sales and services in Q2/16 was approximately the same as in Q1/16.
- While the sales volume increased sharply, Rayong plant was able to manage the production cost to be relatively the same as in Q1/16

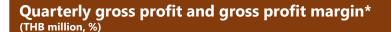
Q2/16 VS Q2/15 (YoY)

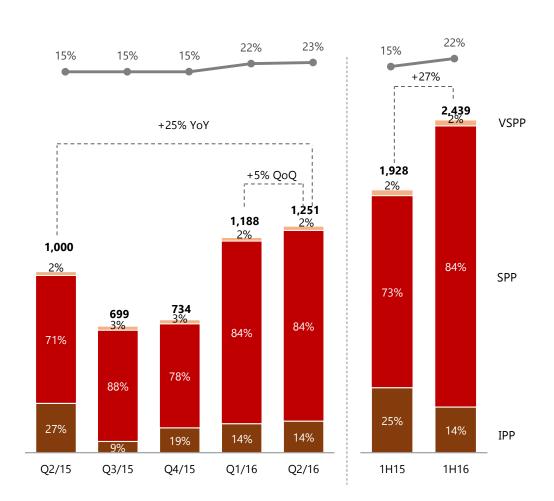
- When compared with Q2/15, cost of sales and services significantly decreased by THB 1,282 million or 23%.
- The decrease was caused by a drop in cost of raw materials from lower dispatch to EGAT and gas price together with the decrease in maintenance costs in line with the decrease in the sales volume.

- Cost of sales and services in 1H16 significantly decreased by THB 2,486 million or 22%.
- The decrease in natural gas price, following the declining of the oil price, is the main factor in the reduction reinforced with the reduces in the dispatch volume.



Gross profit improved 25% YoY, GPM improved to 23% from plant optimization and higher SPP's sales volume





Q2/16 VS Q1/16 (QoQ)

- Gross profit in Q2/16 was THB 1,251 million increased by THB 63 million or 5%.
- This mainly due to the increase in sales volume from higher demand from the customers at Rayong and IRPC-CP Phase 1 plants
- Higher %GPM from higher K and weight factors during summer season.

Q2/16 VS Q2/15 (YoY)

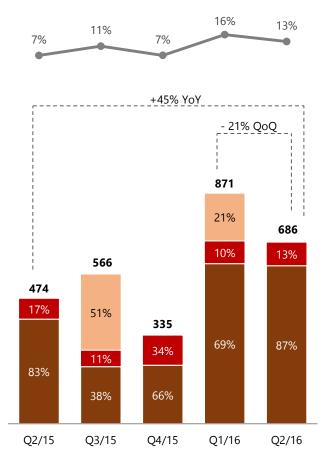
- Compare with Q2/15, gross profit increased by THB 251 million or 25%.
- The increase was from more efficient production process from Rayong's plants optimization and the drop in maintenance costs.
- Moreover, the starting of IRPC-CP Phase 1 in Nov 2015 also enhance company's gross profit.

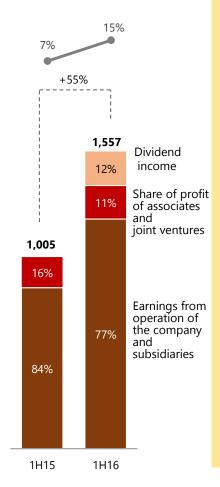
- Gross profit in 1H16 significantly increased by THB 511 million or 27%.
- The plant optimization and revenue recognition from the SPP power plants (higher margin) were the main contribution of the significant increase in the gross profit and GPM in 1H16.



Net profit for 1H16 for the company increased outstandingly from better operating results and dividend income







Q2/16 VS Q1/16 (QoQ)

- Net profit for the company in Q2/16 was THB 686 million decreased by THB 185 million or 21%.
- The decrease due to the fact that there was dividend income of THB 180 million from Ratchaburi Power Company Limited (RPCL) in Q1/16.

Q2/16 VS Q2/15 (YoY)

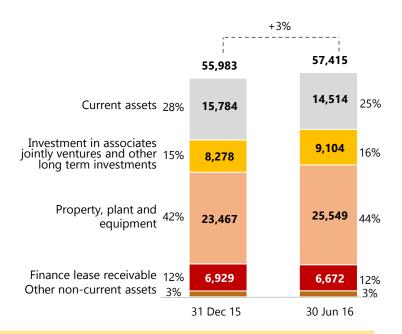
- Net profit for the company increased by THB 212 million or 45%.
- The increase was due to increase in demand of electricity and steam consumptions from the existing and new customers, and better cost management from the plant optimization.

- Net profit in 1H16 significantly increased by THB 552 million or 55%.
- The increase in the net profit came from 2 parts:
 - <u>Increase in earnings from operation</u> from production capacity expansion and optimization of production process.
 - <u>Dividend income</u> increase from Ratchaburi Power Company Limited (RPCL) for THB 180 million during Q1/16.



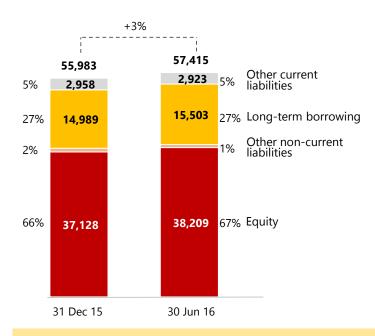
Summary of financial position of GPSC and its subsidiaries

Total Assets (THB million)



- Total assets were THB 57,415 million, increased by 3% from THB 55,983 million.
- The increase was mainly from increases in investments from the better operating result of the associates and JV and increase in assets under constructions of IRPC-CP Phase 2.

Total Liabilities & Shareholders equity (THB million)



- Total liabilities were THB 19,206 million increased by THB 351 million or 2% mainly from the additional drawdowns of long-term loans for power plant constructions.
- Equity were THB 38,209 million increased by THB 1,082 million or 3% mainly from an increase in the unappropriated retained earnings and gains from translation of foreign currency.

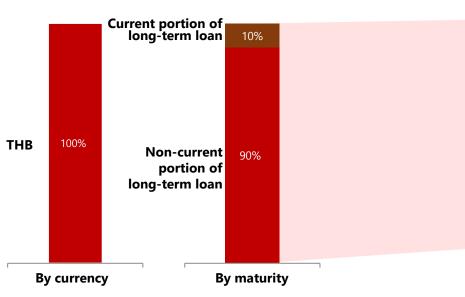


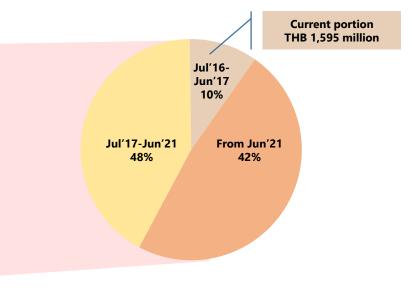
Well-managed debt profile and continuous deleveraging

Debt profile

Debt repayment plan

Total interest-bearing debt: THB 15,503 million





% to total interest-bearing debt

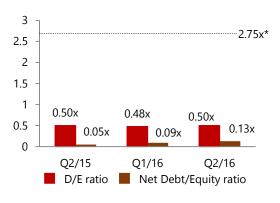
- All debt balance as at 30 June 2016 is in THB currency.
- 100% of total interest-bearing debt is long-term loan which includes 10% of current portion.

- Non-current portion of long-term debt equals to THB 13,908 million while current portion equals to THB 1,595 million.
- 48% of total interest-bearing debt will be repaid between July 2017 June 2021.



Key financial ratios support GPSC's strong financial position

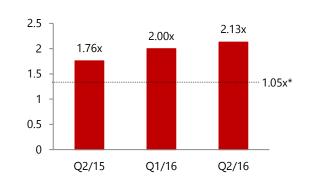
Total D/E and Net Debt/ Equity ratio (Times)















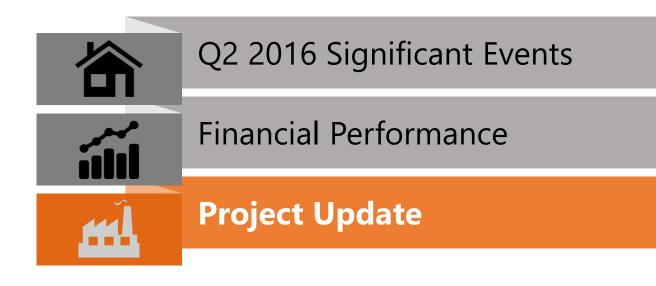
Earning per share (EPS) (Baht/share)



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

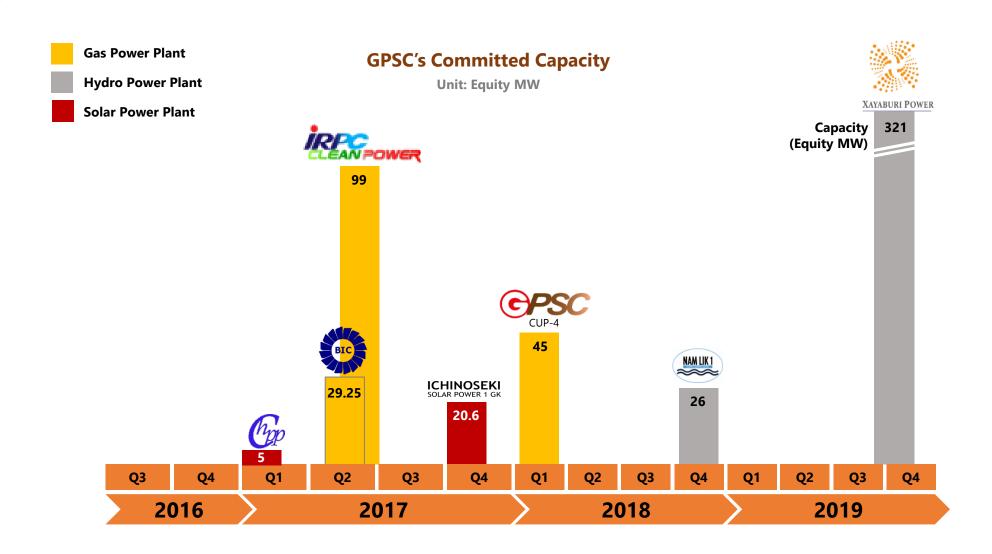








PSC 7 Committed Projects to operate by 2019





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)





Equity	% Progress	Туре	SPP Cogeneration
Investment 3,400 THB Million	2Q16 86%	Capacity*	Electricity: 240 MWSteam: 180-300 T/H
49% Others	1Q16 77%	Customer*	 Electricity: EGAT 2x90 MW (25 years), IRPC 60 MW (27 years) Steam: IRPC 180-300 T/H
		SCOD	June, 2017
51% GPSC		Total Investment	13,600 THB Million
		D/E	3:1

Progress update

Phase 2 Under Construction

- Installed 2 units of Combustion Turbine Generator (CTG)
- Transmission line construction in progress



Shareholding



Bangpa-In Cogeneration Phase 2 (BIC-2)





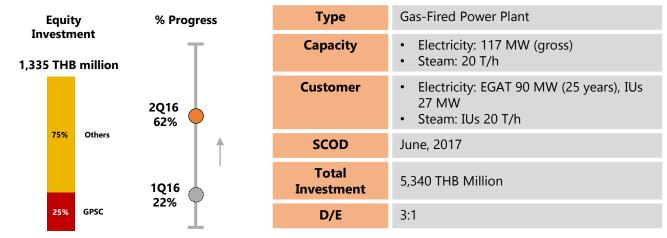




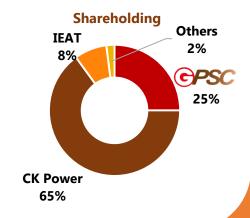


Bangpa-In Cogeneration Company Limited (Phase 2)

Ayutthaya Province



- EIA has been approved
- BOI has been approved
- Commenced construction in February 2015
- Power and steam sales is under negotiation with IUs within industrial estates
- The installation of the main equipment is in process





SC Ichinoseki Solar Power (ISP1)





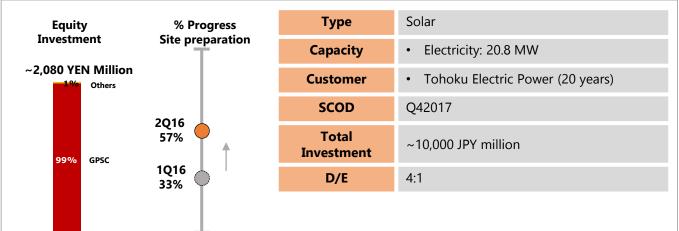




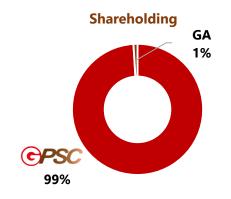
ICHINOSEKI SOLAR POWER 1 GK

Ichinoseki Solar Power (ISP1)

Ichinoseki City, Japan



- PPA contract with Tohoku Electric Power Company is concluded; secured FiT at 42 JPY/kWh (exclude tax) for 20 years
- EPC contracts and Facility agreement have been executed
- Installation will start in Q3/2016
- Finalized loan agreement and ready to start drawdown the loan
- GPSC first international project to COD in 2017





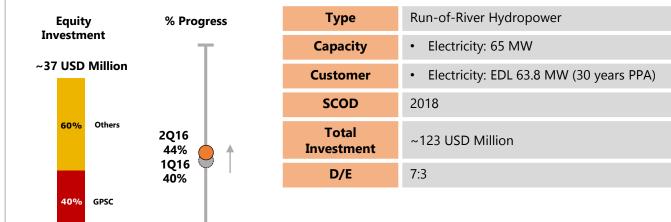
C Nam Lik 1 Power Company Limited (NL1PC)





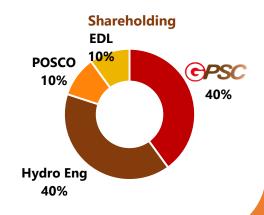


Nam Lik 1 Power Company Limited (NL1PC) Lao PDR





- The construction works for the period were related powerhouse dam, diversion tunnel, 115kv transmission line
- The constructor is preparing to continue the work after rainy season





PSC Central Utility Plant Project 4: Phase 1 (CUP-4 Ph1)

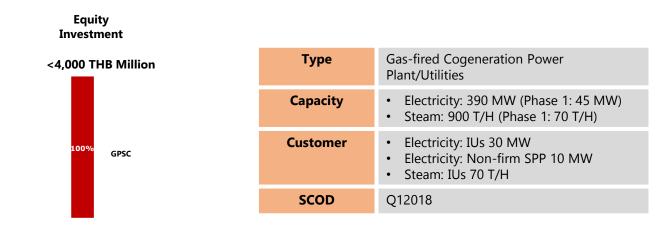




Central Utility Plant Project 4 (CUP-4)

PTT's WEcoZi, Asia Industrial Estate (AIE) Rayong Province





Progress update

- Currently, conducting on ITB-GTG, ITB-EPC
- Plan to award EPC in Q3 2016
- Plan to start construction in later Q1 2017

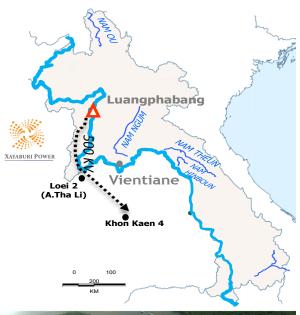
Shareholding





PSC Xayaburi Power Company Limited (XPCL)



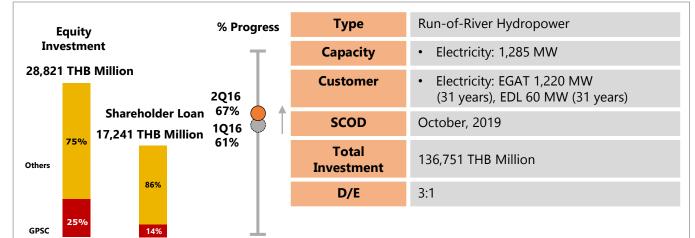




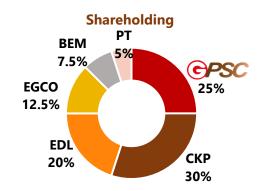




Xayaburi Power Company Limited (XPCL) Xayaburi, Lao PDR



- Concrete work at intermediate bock, powerhouse and Fish Ladder can continue with no interruption
- Hydro-Mechanical work and Electro-Mechanical work progressed as plan
- Erection of 500kV transmission line tower at section 2-3 work progressed as plan





CHPP Solar Cooperatives





จังหวัดจันทบุรี





CHPP Solar Cooperatives

Chanthaburi Province

Туре	Solar
Capacity	Electricity: 5 MW
Customer	• PEA
SCOD	December, 2016
Total Investment	244 THB million
Contract	FiT THB 5.66/unit25 yearsEnd 2041

Progress update

- The project is awarding for the Engineering Procurement and Construction (EPC) contract
- Project finance on progress

Shareholding





PSC 24M Technologies, Inc. (24M)







24M Technologies, Inc. (24M)

Cambridge, Massachusetts (MA), USA

	Lithium-Ion Battery (LFP) technology	
Application	Energy Storage System (ESS)	
Status	Series C	
Next Step	High Volume Manufacturing	
Total Investment	21.67 USD million*	



Bloomberg NEW ENERGY

Progress update

- The 1st generation battery chemistry has already done and Lithium-ion battery cell development was satisfied
- The company has signed an MOU with NEC Energy Solutions (NECES) to supply Semisolid Lithium-Ion battery to NECES energy storage system
- Currently, 24M is working on the **development of High Volume Manufacturing** production line

Proven technology from many awards and funding from the U.S. government During 2H2016, 24M has received many awards and recognition from the industry including:

- 2016 Energy Innovation Pioneers: CERAWEEK, IHS Energy
- 2016 New Energy Pioneers : Future of Energy Summit, Bloomberg New Energy Finance
- Listed in "50 Smartest Companies 2016": MIT Technology Review
- Technology Pioneers 2016: World Economic Forum
- The United States Advanced Battery Consortium LLC (USABC) has announced the award of a \$7 million contract to 24M, to leverage its breakthrough cell design and manufacturing process to deliver lower cost, automotive lithium-ion batteries, demonstrating their potential for mass production.





Future project: Waste Management Project





Waste Management Project

Rayong Province



Туре	RDF	Waste to energy Power Plant
Capacity	Treat MSW at least 500 ton/day	Electricity 8 MW
Customer	RDF Power Plant/ Cement Plant	PEA
SCOD	2018	2019
Total Investment	~600 Million THB	~1600 Million THB
Contract	Waste Management Contract between GPSC & Rayong PAO (Secure 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)
- Construction of RDF Plant will start within Q4/2016 and power plant within 2017

Shareholding





Future project: No significant update due to the restructuring of Ministry. However, GPSC carefully monitors new energy policies to assess projects' development





Tł	Thanlyin Project				
Location	Yangon Region, Myanmar				
Туре	Combined Cycle Gas Turbine				
Capacity	Approx. 400 MW (Phase 1: approx. 140MW)				
Customer	• MEPE				
SCOD	• 2020				
Status	FSR Clarification				



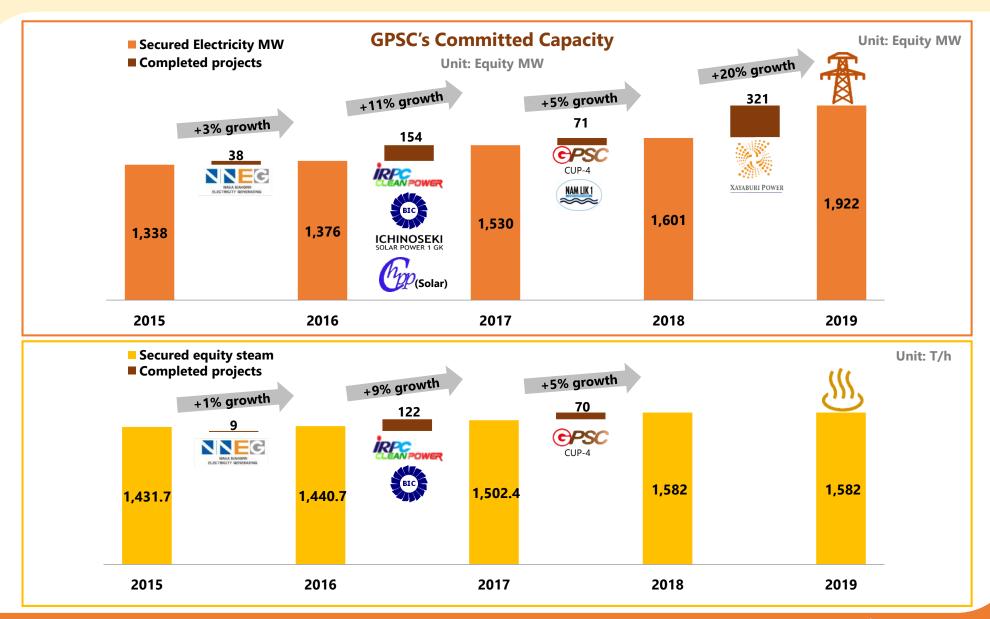
Myeik Project				
Location	Tanintharyi Region, Myanmar			
Туре	Coal-Fired Power Plant			
Capacity	2,500 MW			
Customer	MEPEEGAT			
SCOD	• 2021 - 2022			
Status	FSR Clarification			



Aye	Ayeyarwady Project			
Location	Ayeyarwady Region, Myanmar			
Туре	Combined Cycle Gas Turbine			
Capacity	Approx. 500 MW			
Customer	• MEPE			
SCOD	• 2020			
Status	Negotiating MOA			



GPSC will deliver outstanding growth during 2016-2019



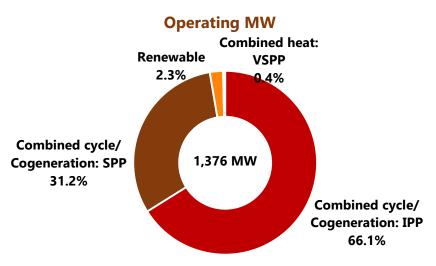




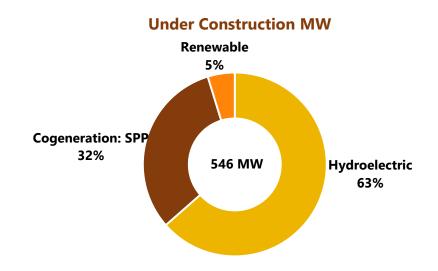
Appendix



Electricity: Operating capacity of 1,376 MW, with another 546 MW in pipeline



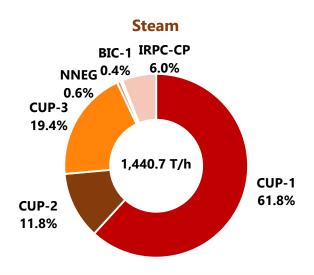
Name	Туре	GPSC's share %	Total capacity (MW)	Equity capacity (MW)
Sriracha	IPP	100%	700	700
CUP-1	SPP	100%	226	226
CUP-2	SPP	100%	113	113
CHPP	VSPP	100%	5	5
IRPC-CP Phase 1	SPP	51%	240	122 (Phase 1: 23 MW)
NNEG	SPP	30%	125	38
TSR	Solar	40%	80	32
BIC-1	SPP	25%	117	29.25
RPCL	IPP	15%	1,400	210
			Total	1,376



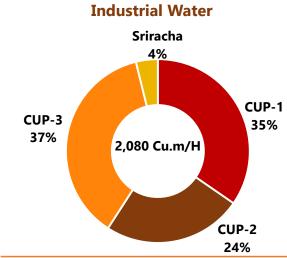
Name	Туре	GPSC's share %	Total capacity (MW)	Equity capacity (MW)	SCOD
CUP-4	SPP	100%	45	45	2018
CHPP (Solar)	Solar	100%	5	5	2017
ISP-1	Solar	99%	20.8	20.6	2017
IRPC-CP Phase 2	SPP	51%	240	122 (Phase 2: 99 MW)	2017
NL1PC	Hydro	40%	65	26	2017
BIC-2	SPP	25%	117	29.25	2017
XPCL	Hydro	25%	1,285	321	2019
			Total	546	



Operate 1,441 T/h of Steam and 2,080 Cu.m./h of Industrial Water



Name	Operating capacity (T/h)	Under construction Capacity (T/h)
CUP-1	890	
CUP-2	170	
CUP-3	280	
NNEG	9	
BIC-1	5	
IRPC-CP Phase 1	86.7	
CUP-4		70
IRPC-CP Phase 2		66.3
BIC-2		5
Total	1,440.7	141.3



Name	Operating capacity (Cu.m/h)
Sriracha	80
CUP-1	720
CUP-2	510
CUP-3	770
Total	2,080



Name	Туре	Location	Fuel Type	Technology	GPSC's share %	Total capacity (MW)	Equity capacity (MW)	Steam (T/h)	Industrial water (Cu.m/h)	COD	Tenure/ Expiry year
					IN OPERA	ATION					
Sriracha	IPP	Chonburi	Natural gas	Combined cycle	100%	700	700	-	80	2006	25/2025
CUP-1	SPP	Rayong	Natural gas	Cogeneration	100%	226	226	890	720	2006	10-15/2021
CUP-2	SPP	Rayong	Natural gas	Cogeneration	100%	113	113	170	510	2008	15/2022
CUP-3	SPP	Rayong	Natural gas	Cogeneration	100%	-	-	280	770	2009	15/2023
СНРР	VSPP	Rayong	Natural gas	Combined heat and power with district cooling	100%	5	5	-	-	2008	30/2038
IRPC-CP Phase 1	SPP	Rayong	Natural gas	Cogeneration	51%	240	122 (Phase 1: 23 MW)	86.7	-	2015	25/2040
TSR	VSPP	Suphanburi & Karnchanaburi	Solar	Solar	40%	80	32	-	-	2013	10/2023
NNEG	SPP	Pathum-thani	Natural gas	Cogeneration	30%	125	38	9		2016	25/2041
BIC-1	SPP	Ayutthaya	Natural gas	Cogeneration	25%	117	29.25	5	-	2013	25/2038
RPCL	IPP	Ratchaburi	Natural gas	Combined cycle	15%	1,400	210	-	-	2008	25/2033
					To	otal operating	1,376	1,440.7	2,080		
				U	NDER CONS	STRUCTION					
CHPP (Solar)	VSPP	Chanthaburi	Solar	Solar	100%	5	5			2016	
CUP-4	SPP	Rayong	Gas-fired Cogeneration	Cogeneration	100%	45	45	70		2018	Ŧ.
ISP1	Solar	Japan	Solar	Solar	99%	20.8	20.6	-		2017	20/2037
IRPC-CP Phase 2	SPP	Rayong	Natural gas	Cogeneration	51%	240	122 (Phase 1: 99 MW)	66.3		2017	25-27/2044
NL1PC	Hydro	Lao PDR	Hydro	Run-of-river	40%	65	26	-		2018	27/2044
BIC-2	SPP	Ayutthaya	Natural gas	Cogeneration	25%	117	29.25	5		2017	25/2042
XPCL	IPP	Lao PDR	Hydro	Run-of-river	25%	1,285	321	-		2019	31/2050
					Total unde	r construction	546	141.3			
					To	otal capacity	1,922	1,582	2,080		

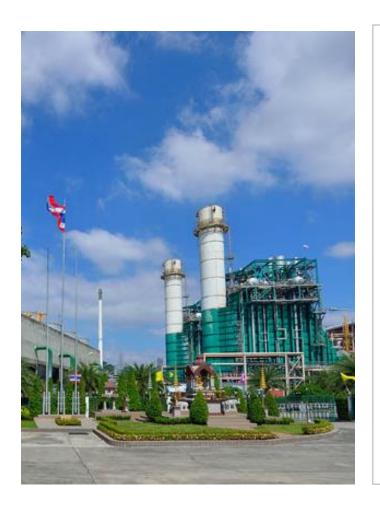


Current Operating Asset (IPP): Sriracha



Sriracha Power Plant

Chonburi Province (40 Rai leasehold land)



Туре	Combined cycle	
Capacity	Electricity: 700 MWIndustrial water: 80 Cu.m/h	
Customer	Electricity: EGAT 700 MWIndustrial water: Thaioil Power 50 Cu.m/h	
Supplier	 Natural Gas – PTT Raw Water – EASTW Power Back up – EGAT and TP 	
Construction	2005 - 2010	
COD	2006	
Contract	 25 Years End: 2025	





CUP-2

က္

Current Operating Asset (SPP): Rayong – Central Utility Plant 1-3 (CUP1-3)



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 ++



Current Operating Asset:



Combined Heat and Power Producing Co., Ltd.

Bangkok Province

Туре	Combined heat and power with district cooling (VSPP)
Capacity	Electricity: 5 MWChilled water: 12,000 RT
Customer	• DAD 8,700 RT
COD	2008Electric Chiller Jan 1, 2009
Contract	30 YearsEnd: 2038
_	





Shareholding





IRPC Clean Power Company Limited (IRPC-CP Phase 1) Rayong Province (118 Rai)

Туре	Cogeneration (SPP)
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
COD	2015
Contract	 25 Years End: 2040









Current Operating Asset:

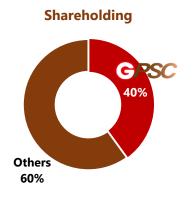


Thai Solar Renewable Company Limited Kanchanaburi and Suphanburi Province

Туре	Solar
Capacity	Electricity: 80 MW
Customer	• PEA
COD	2013-2014
Contract	10 YearsEnd: 2023









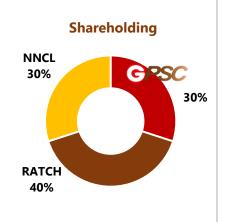
Nava Nakorn Elecricity Generating Company Limited (NNEG)

Pathumthani Province

Туре	SPP Cogeneration
Capacity	Electricity: 125 MWSteam: 30 T/h
Customer	 Electricity: EGAT 90 MW (25 years), IUs 35 MW Steam: IUs
COD	June, 2016
Contract	25 YearsEnd: 2041









Current Operating Asset:



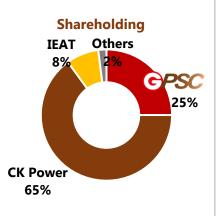
Bangpa-in Cogeneration Company Limited

Ayutthaya Province

Туре	Cogeneration (SPP)
Capacity	Electricity: 117 MWSteam: 5 T/h
Customer	Electricity: EGAT 90 MW, IUs 27 MWSteam: 5 T/h
COD	28 Jun 2013
Contract	25 YearsEnd: 2038









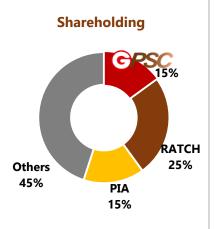
Ratchaburi Power Company Limited

Ratc	haburi	Provi	nce	

Туре	Combined Cycle (IPP)	
Capacity	Electricity: 1,400 MW	
Customer	• EGAT	
COD	Mar 2008	
Contract	25 YearsEnd: 2033	







Ratios	Formula
Gross profit margin	Gross profit
	Revenue from sales of goods and service + Revenue from finance lease
Net as Change's	Net profit
Net profit margin	Total Revenue
Total Debt to Equity	Total liabilities
Total 2 obt to 2quity	Total shareholder's equity
Net debt to Equity ratio	Interest bearing debts – (Cash and cash equivalents + Restricted cash + Current investments)
	Total shareholder's equity
DSCR	EBITDA for DSCR for the last 12 months
DOCK	Principal and Interest to be paid in the next 12 months
Earning per share (EPS)	Net profit for the company
	Weighted average number of shares
ROE	Net profit for the company
	Average shareholder's equity
ROA	Net profit (last 12 months)
	Average assets
Rook value per chare (RV/DC)	Shareholder's equity for the company
Book value per share (BVPS)	Average shareholder's equity for the company



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

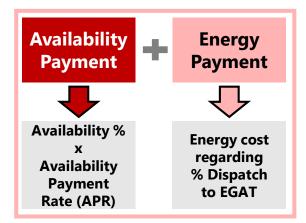
Firm : Contract Term > 5 Years Non-Firm : Contract Term <= 5 Years

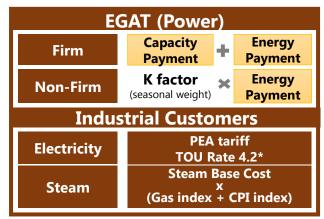
 SPPs can sell their electricity and steam to industrial customers located next to the SPP plant

VSPP

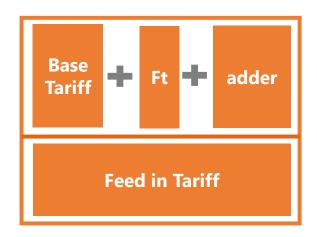
Very Small Power Producer (VSPP):

- 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





THANK YOU

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