Innovative Power Flagship of PTT Group

3Q 17 Results Presentation Opportunity Day

18th November 2017



GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED





Company Overview

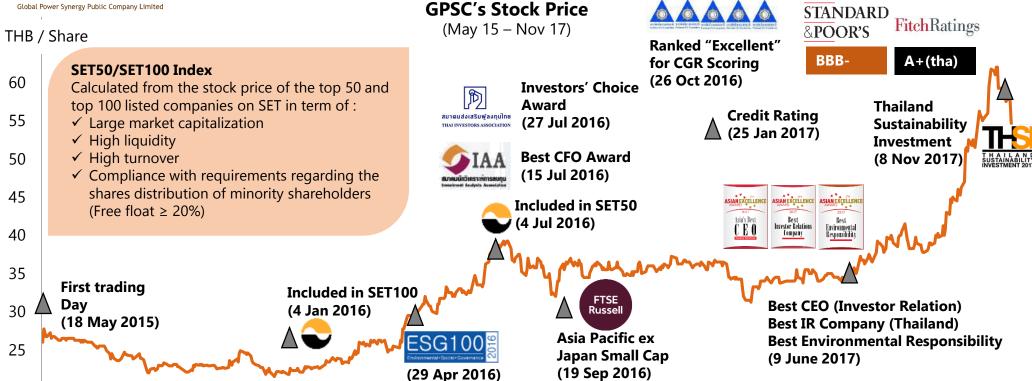
Investment in Affiliates

Financial Performance



20

GPSC stock's performance



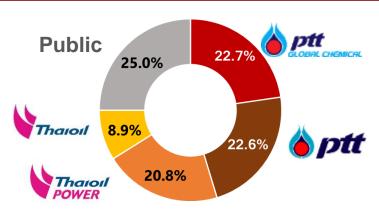
 $May-15 Jun-15\ Jul-15\ Aug-15 Sep-15 Oct-15 Nov-15 Dec-15 Jan-16\ Feb-16 Mar-16 Apr-16 May-16 Jul-16\ Aug-16 Sep-16 Oct-16 Nov-16 Dec-16 Jan-17\ Feb-17 Mar-17 May-17 Jun-17\ Jul-17\ Aug-17 Sep-17 Oct-17 Nov-17 May-17 Jun-19\ Jul-19\ Aug-17 Sep-17 Oct-17 Nov-17 May-18\ Jul-19\ Aug-18 May-19\ Jul-19\ Aug-19\ Aug-19\$

- 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 FTSE Index.
- GPSC was classified to be in **SET100** in January 2016 and then in July 2016, progressed to be included in **SET50** until now.
- 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.
- 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. In June 2017, GPSC was granted Best CEO (Investor Relation), Best IR Company (Thailand) and Best Environmental Responsibility from Corporate Governance Asia. Also, in November 2017, GPSC was included in Thailand Sustainability Investment from SET. These are the results of confidence on GPSC performance from all stakeholders.



GPSC Innovative Power Company at a Glance

GPSC's Shareholding Structure



Thai Oil Power is 73.99% held by Thai Oil and 24.01% by PTT As of 27 February 2017

Company Information

Head Office 555/2 Energy Complex Building

B, 5th Floor, Vibhvadi-Rangsit Road, Chatuchak, Bangkok

Business Type Energy & Utilities

Registered Capital THB 14,983 million (Fully Paid)

Market Cap
(As of 3 October 2017)

THB 76,772.5 million

GPSC's committed capacity is 1,922 Equity MW electricity and 1,582 T/H steam in year 2019



Electricity 1,517 MW
Steam 1,582 T/H
Industrial Water 2,080 Cu.m./H
Chilled Water 12,000 RT



Electricity 58 MW



Electricity 347 MW

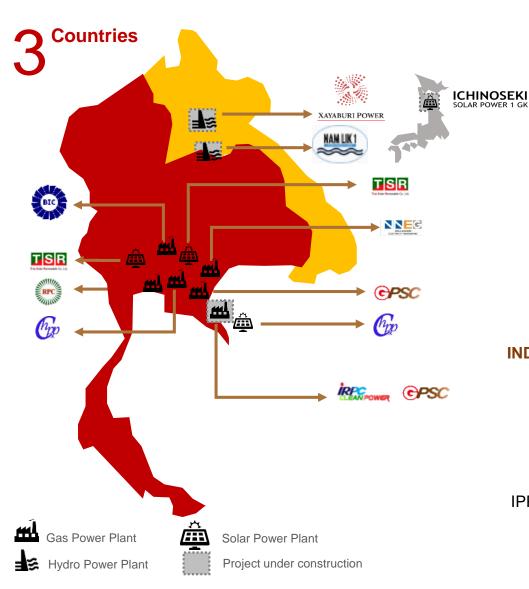


24M Technologies, Inc. (USA) Business Service Alliance Co.,Ltd.



GPSC's Business Portfolio in Thailand, Lao PDR and Japan

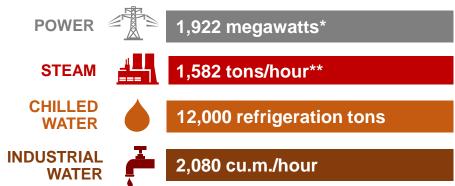




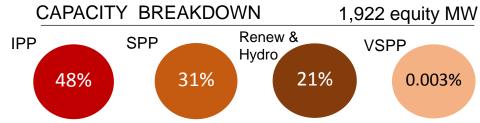
Today, GPSC's power plants continue to grow in locations, customer groups, and fuel types, as illustrates in the picture..



As of November 15, 2017, GPSC committed equity capacities below:

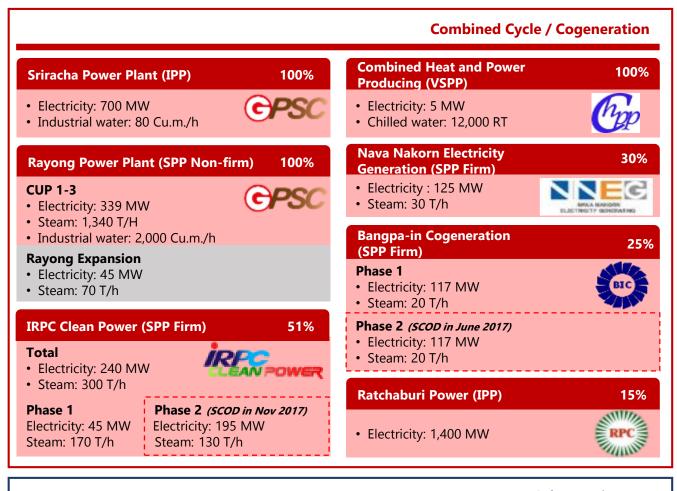


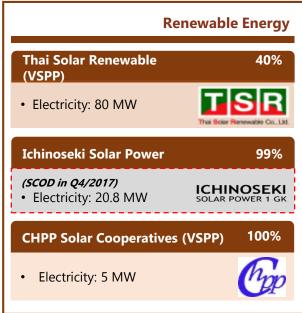
*Of 1,922 megawatts: operates 1,509 MW and under construction 413 MW ** of 1,582 tons/hour: operates 1,512 T/H

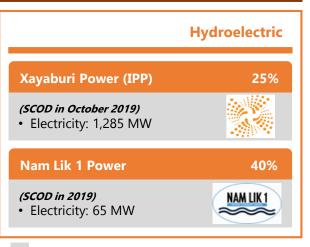




GPSC's Business Portfolio: 11 Affiliates in 4 Countries









Business Service Alliance

BSA

24M Technologies

241



3Q 2017 Highlights



GROWTH

Robust growth in pipeline with new growth opportunities

IRPC-CP Ph2 and Ichinoseki Solar Power (ISP1) are ready to COD in Q4/17 adding more 216 operating MW. Also, the expansion development of phase at Rayong Plant is continuing to support the growing demands from customers. Furthermore, GPSC is studying the business expansion at NNEG and solar rooftop in industrial estate, service station, housing station.



PROFIT

23% Increase in Net profit YoY

GPSC's net profit in Q3/17 was THB 888 million increased by THB 171 million from Q3/16 and by THB 71 million from Q2/17 thanks to the rises in sales price, resulted from the rise in Ft rate, and demand higher from customers at Rayong Plant. Moreover, GPSC gained dividend income from RPCL for THB 150 million in Q3/17 and construction income at IRPC-CP Ph.1 for THB 66 million.



SUSTAINABILITY

Selected to include in THSI 2017 by SET

GPSC is selected to include in **Thailand Sustainability Invest**ment (THSI) by the Stock Exchange of Thailand (SET) in 2017. This reflects the emphasis on responsibility towards the environmental, social and governance, simultaneously with the creation of economic returns to ensure sustainable growth and the efficiency in managing the supply chain risks and promotion for business and social innovation of GPSC.



CONTROL

5 Projects in progress meet milestone as planned

IRPC-CP Ph2, which has completed the synchronization Ph1, and Ichinoseki with construction progressed planned and ready to COD in O4/17 while another three power plants, which are under construction, are expected to COD within 2019. All the projects are closely monitored by GPSC and construction specialists to meet the milestones.







Strategic Growth: 3 Growth Engines



Priority Thailand



- Focus in MAPTAPHUT area
- Be PTT Group's power supplier of choice
- Contribute to strategic priorities across the PTT group
- Increase new customers in Thailand



International Business



- Focus countries
- Enhance country knowledge and make relationship
- Strategic partners
- Invest in both conventional and renewable energies

"Focus Countries"

Go into country where we can play multiple fuel to avoid risk.

Future Energy



- · Be at the forefront of innovation in energy sector
- Leverage IP technology license partnership
- · Leverage existing investments, and PTT's asset base to deploy new technologies
- Smart grids for smart cities



First Debentures Issuance THB 5,000 million

- ✓ Unsubordinated and unsecured THB debentures
- ✓ Issue rating A+ by Fitch Ratings (Thailand)
- ✓ Offering to institutional and high net worth investors

Tranche 1

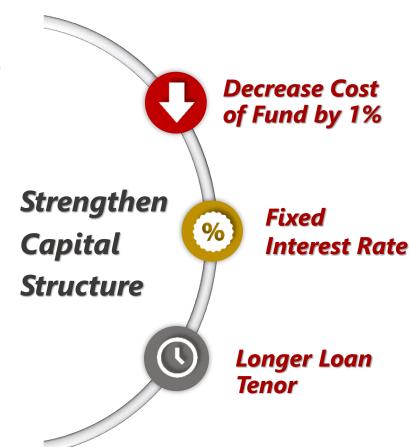


- 4 years maturity due 2021
- Principal amount of THB 3,500 million
- Fixed coupon rate of2.21% per annum

Tranche 2



- 7 years maturity due 2024
- Principal amount of THB 1,500 million
- Fixed coupon rate of 2.82% per annum





Company Overview

Financial Performance

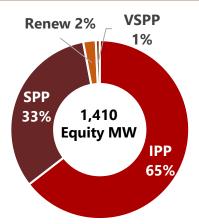
Investment in Affiliates



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

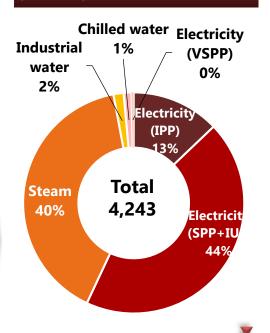
ELECTRICITY CAPACITY BREAKDOWN

(Unit: Equity Megawatt)



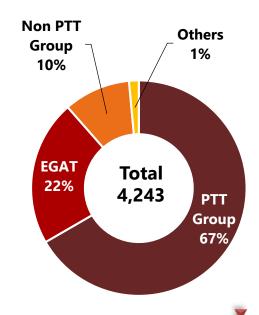
Name	Type GPSC's		Total capacity	Equity capacity	Steam
		share %	(MW)	(MW)	(T/H)
IN OPERATION					
Sriracha	IPP	100%	700	700	
CUP-1	SPP	100%	226	226	890
CUP-2	SPP	100%	113	113	170
CUP-3	SPP	100%	-		280
CHPP	VSPP	100%	5	5	
IRPC-CP Phase 1	SPP	51%	45	23	86.7
CHPP (Solar)	VSPP	100%	5	5	
Consolidat	e to 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
BIC-2	SPP	25%	117	29.25	5
RPCL	CL IPP		15% 1,400		
S	338	19			
	1,410	1, 44 6			

Q3/2017 Revenue by product (THB million)



 Electricity and Steam are major sources of GPSC's revenue, accounted for 97% of total revenue.

Q3/2017 Revenue by customer (THB million)



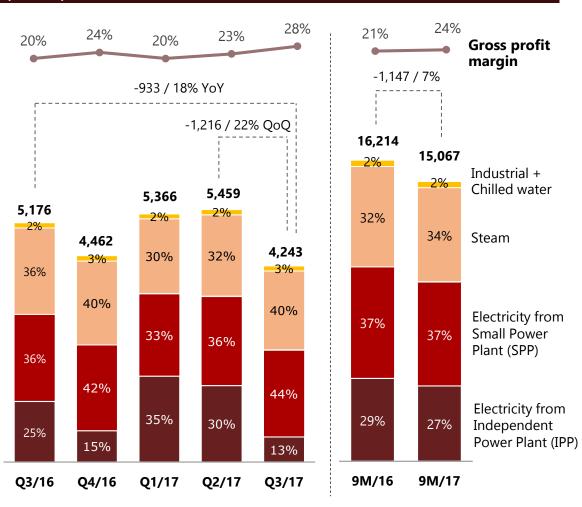
 Accounted for more than 60% of total revenue, PTT Group is consistently the largest customer of GPSC in Q3/17.

IUs : Industrial Users 11



Revenue decreased THB 1,216 million or 22% QoQ mainly from Sriracha and IRPC-CP

Quarterly revenue (THB MM)



Q3/17 VS Q2/17 (QoQ)

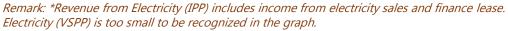
Operating revenue in Q3/17 decreased by THB 1,216 million or 22% resulted from the shutdown of IRPC-CP Phase 1 to commissioning with Phase 2 and the decrease in sales volume at Sriracha from reserved shutdown.

Q3/17 VS Q3/16 (YoY)

Operating revenue in Q3/17 decreased by THB 933 million or 18% from the decrease in sales volume at IRPC-CP Phase 1 and Sriracha.

9M/17 VS 9M/16

Operating revenue in 9M/17 decreased by THB 1,147 million or 7% resulted from the shutdown of major customer of IRPC-CP Phase 1 in Q1/17 and the commissioning in Q3/17 also, the reserved shutdown of Sriracha together with lower average selling prices of electricity and steam which followed decreased Ft rate and natural gas price.

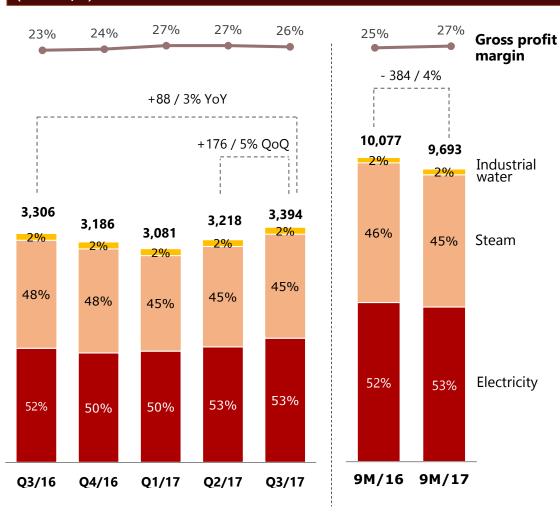






Rayong Power Plant (SPP): Revenue & GPM

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



Q3/17 VS Q2/17 (QoQ)

Total revenue in Q3/17 increased by THB 176 million or 5% from higher sales volume of electricity and steam after customers resumed their operations from planned shutdown in Q2/17 together with higher selling price from rising Ft rate.

Q3/17 VS Q3/16 (YoY)

Total revenue in Q3/17 increased by THB 88 million or 3% because there was no planned maintenance shutdown of gas turbine generator as in Q3/16. Plus, the average selling price of electricity increased following higher Ft rate.

9M/17 VS 9M/16

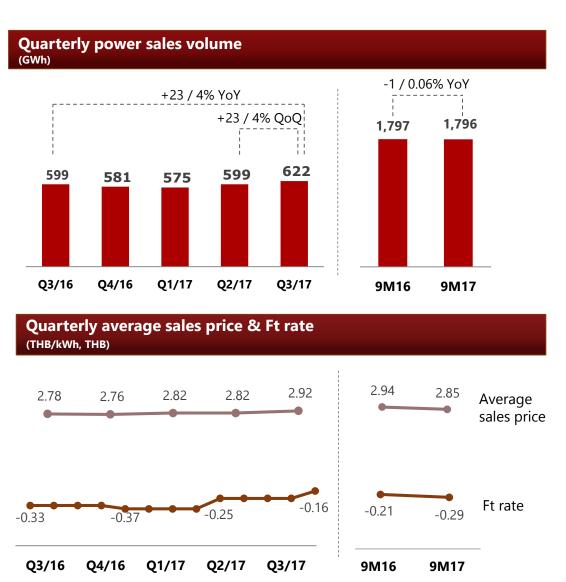
Total revenue in 9M/17 decreased by THB 384 million or 4% due to lower average selling price of electricity and steam following the drop in Ft rate and natural gas price respectively.







Rayong Power Plant (SPP): Power



Q3/17 VS Q2/17 (QoQ)

- **Volume**: increased by 23 GWh or 4% due to higher demand from customers as they returned to normal operation after planned maintenance in Q2/17.
- **Price**: increased mainly due to higher Ft rate.

Q3/17 VS Q3/16 (YoY)

- **Volume**: increased by 23 GWh or 4% resulted from gas turbine shutdown in Q3/16.
- **Price**: increased by 0.14 Baht per kWh due to higher Ft rate.

9M17 VS 9M16

- Volume: slightly decreased by 1 GWh or 0.06%.
- **Price**: slightly decreased by 0.09 Baht per kWh due to lower Ft rate.



Rayong Power Plant (SPP): Steam



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



Q3/17 VS Q2/17 (QoQ)

- **Volume**: increased by 62 thousand tons or 5% due to higher demand from customers as they returned to normal operation after maintenance shutdown in Q2/17.
- Price: decreased by 9 Baht per ton or 1%.

Q3/17 VS Q3/16 (YoY)

- **Volume**: decreased by 56 thousand tons or 4% due to maintenance shutdown of customers in Q3/17.
- **Price**: slightly increased by 1 Baht per ton followed higher natural gas price.

- **Volume**: decreased by 176 thousand tons or 4% due to maintenance shutdown of customers in 9M/17.
- **Price**: decreased by 15 Baht per ton or 1% due to the decrease in natural gas price.





Sriracha Power Plant: Revenue & GPM

Quarterly revenue & gross profit margin (THB MM, %) 38% **Gross profit** 15% 10% 12% 10% 8% margin - 424 / 9% -768 / 58% YoY 4,481 4,057 Industrial water -1,107 / 67% QoQ 1,858 1,653 1,314 100% 100% Electricity 100% 680 100% 546 100% 100% 100% Q3/16 Q4/16 Q1/17 Q2/17 Q3/17 9M/16 9M/17

Q3/17 VS Q2/17 (QoQ)

Total revenue in Q3/17 decreased by THB 1,107 million or 67% due to lower Energy Payment (EP) following the decline in electricity dispatch volume according to EGAT's demand, while Availability Payment also decreased from a drop in the Weight factor.

Q3/17 VS Q3/16 (YoY)

Total revenue in Q3/17 decreased by THB 768 million or 58% due to a decrease in revenue from Energy Payment (EP) from the drop in dispatch volume.

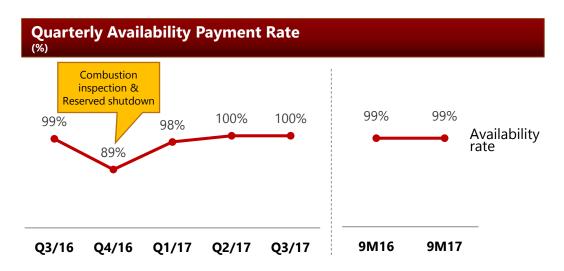
9M/17 VS 9M/16

Total revenue in 9M/17 decreased by THB 424 million or 9% which is in-line with the decrease in the dispatch volume according to EGAT's instruction.

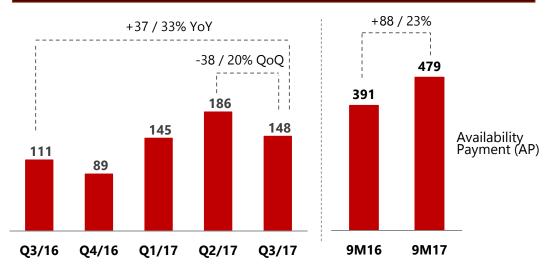




Sriracha Power Plant (IPP): Power



Quarterly revenue from Availability Payment (AP) (THB MM)



Q3/17 VS Q2/17 (QoQ)

- Availability payment rate in Q3/17 was 100% which did not change from Q2/17.
- Revenue from Availability Payment (AP) in Q3/17 decreased by THB 38 million or 20% due to lower Weight factor and THB appreciated against USD.

Q3/17 VS Q3/16 (YoY)

Revenue from Availability Payment (AP) in Q3/17 increased by THB 37 million or 33% mainly from higher availability rate.

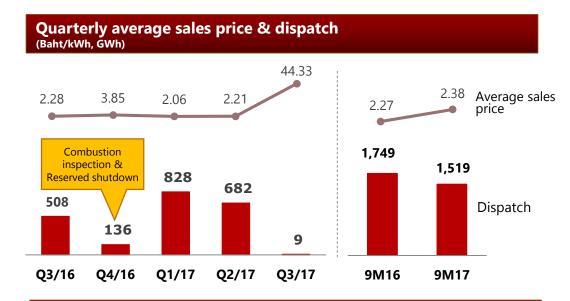
9M/17 VS 9M/16

Revenue from Availability Payment (AP) in 9M/17 increased by THB 88 million or 23% resulted from higher Weight factor.

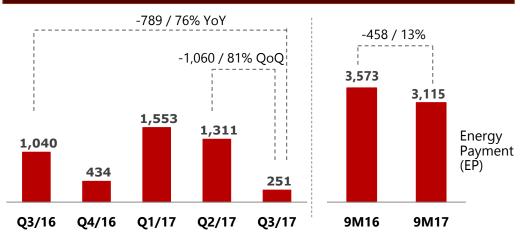




Sriracha Power Plant (IPP): Power



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



Q3/17 VS Q2/17 (QoQ)

- Average sales price in Q3/17 largely increased due to lower dispatch volume to EGAT during reserved shutdown.
- Dispatch volume decreased by 673 GWh or 99% resulted from reserved shutdown.
- Revenue from Energy Payment (EP) decreased by THB 1,060 million or 81% due to the decrease in dispatch volume.

Q3/17 VS Q3/16 (YoY)

- Dispatch volume decreased by 499 GWh or 98% from lower dispatch volume according to EGAT's demand.
- As a result, revenue from Energy Payment (EP) decreased by THB 789 million or 76%.

9M17 VS 9M16

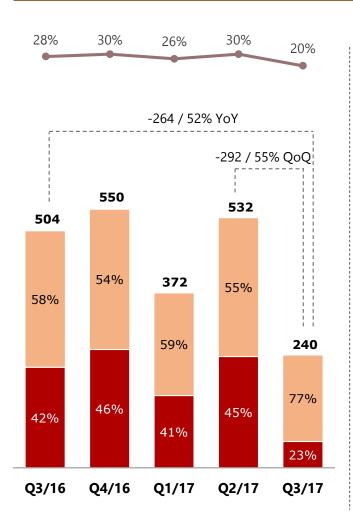
- Dispatch volume decreased by 230 GWh or 13% resulted from lower dispatch volume according to EGAT's demand.
- Revenue from Energy Payment (EP) also decreased by THB 458 million or 13% following dispatch volume.

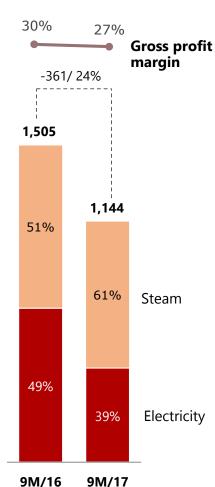




IRPC - CP Power Plant (SPP): Revenue & GPM (1/3)

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





Q3/17 VS Q2/17 (QoQ)

- Total revenue in Q3/17 decreased by Baht 292 million or 55% mainly due to the shutdown for commissioning between Phase 1 & 2 in Q3/17.
- GPM decreased by 10% due to lower sales volume of electricity.

Q3/17 VS Q3/16 (YoY)

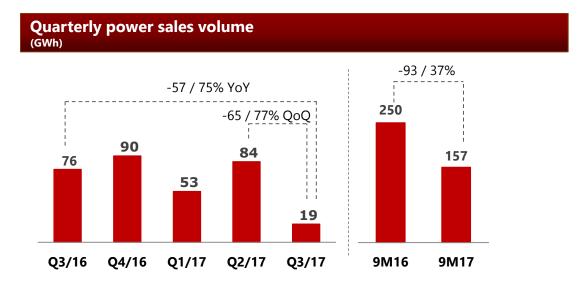
- Total revenue in Q3/17 decreased by Baht 264 million or 52% due to the shutdown for commissioning phases.
- GPM decreased by 8% due to lower sales volume of electricity.

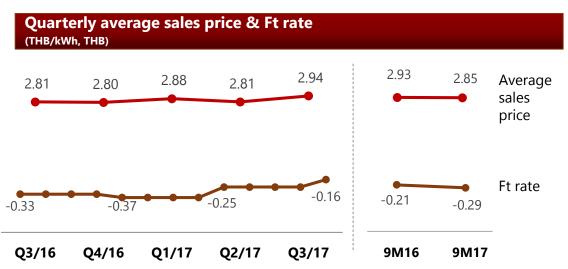
- Total revenue in 9M/17 decreased by Baht 361 million or 24% due to the shutdown of major customer in Q1/17 and the shutdown of Phase 1 for commissioning in Q3/17 together with lower Ft rate.
- GPM also dropped by 3% due to lower sales volume of electricity.





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





Q3/17 VS Q2/17 (QoQ)

- ✓ Volume decreased by 65 GWh or 77% due to the shutdown to commissioning between Phase 1 & 2.
- Price increased 0.13 Baht per kWh or 4.6% due to higher Ft rate.

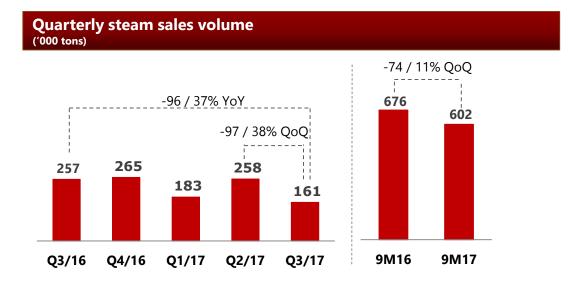
Q3/17 VS Q3/16 (YoY)

- Volume decreased by 57 GWh or 75% due to the shutdown to commissioning between Phase 1 & 2.
- Price increased 0.13 Baht per kWh or 4.6% due to higher Ft rate.

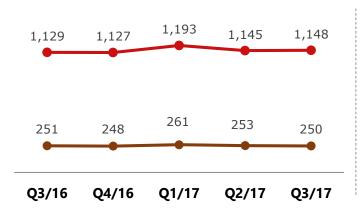
- Volume decreased by 93 GWh or 37% due to maintenance shutdown of major customer in Q1/17 and the shutdown for commissioning between Phase 1 & 2 in Q3/17.
- Price decreased by 0.08 Baht per kWh due to lower Ft rate.

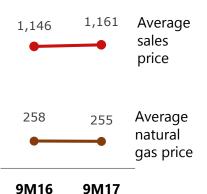


IRPC - CP Power Plant (SPP): Steam (3/3)



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





Q3/17 VS Q2/17 (QoQ)

- Volume decreased 97 thousand tons or 38% due to the shutdown for commissioning between Phase 1 & 2.
- Price increased by 3 Baht per ton or 0.3%.

Q3/17 VS Q3/16 (YoY)

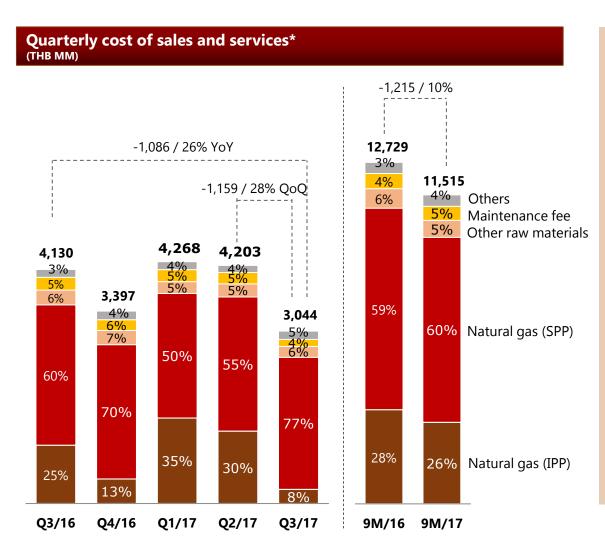
- Volume decreased 96 thousand tons or 37% due to the shutdown for commissioning between Phase 1 & 2.
- Price increased by 19 Baht per ton or 1.7%.

- Wolume decreased by 74 thousand tons or 11% due to maintenance shutdown of major customer in Q1/17 and the shutdown to commissioning between Phase 1 & 2 in Q3/17.
- Price increased 15 Baht per ton or 1.3%.





Decrease in cost of sales and services YoY mainly from Customer Shutdown and lower gas price



Q3/17 VS Q2/17 (QoQ)

- Cost of sales and services in Q3/17 decreased by THB 1.159 million or 28%.
- The decreased was from lower cost of raw materials due to Sriracha's lower dispatch to EGAT and IRPC-CP Phase 1 shutdown for commissioning with Phase 2.

Q3/17 VS Q4/16 (YoY)

- When compared with Q3/16, cost of sales and services decreased by THB 1,086 million or 26%.
- The decrease was from lower dispatch of Sriracha and lower sales volume of IRPC-CP.

- Cost of sales and service in 9M/17 decreased by THB 1,215 million or 10%.
- The decrease was from lower natural gas price and lower dispatch of Sriracha together with the drop in sales volume of IRPC-CP.





Q3/17 Revenue and GPM by Major plant

profit

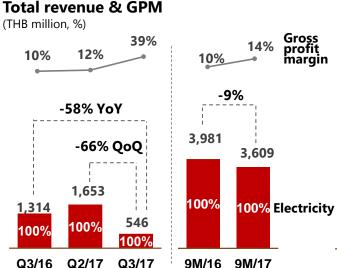
water

Steam

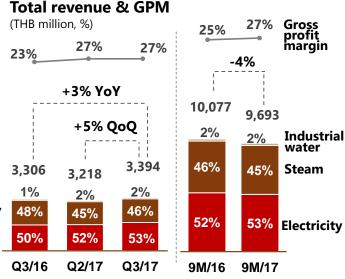
margin



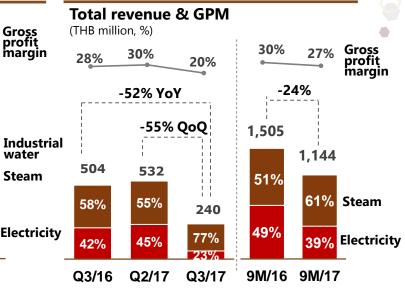
Sriracha Plant



Rayong Central Utilities Plant



IRPC-CP (Phase 1) Plant



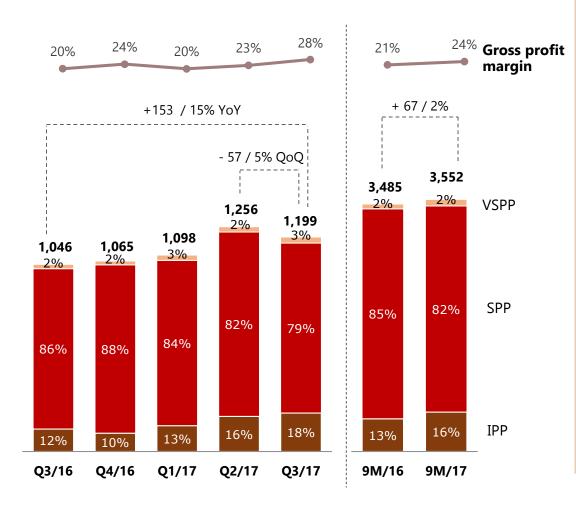
- QoQ: Total revenue declined by 67% mainly from the reserve shutdown causing the lower dispatch volume.
- **YoY**: Total revenue decreased by 58%, mainly due to lower Energy Payment from the drop in dispatch volume.
- **9M**: Total revenue dropped by 9% because of the decrease in electricity sales volume submitted to EGAT by 13%.
- **QoQ**: Total revenue rose by 5% from a rise in electricity sales volumes resulted from the resume of normal operation of the customers and the increase in selling price from a rise in Ft rate.
- **YoY**: Total revenue increased by 3%, mainly from the rise in electricity sales volume because the customers did not have maintenance shutdowns.
- **9M**: Total revenue decreased by 4% due to the decrease in sales volumes of both electricity and steam with the decrease in selling price from the drop in Ft rate comparing to 2016

- **QoQ**: Total revenue declined by 55% from the decrease in sales volumes from the shutdown for commissioning with IRPC-CP Ph1 in Q3/17.
- **YoY**: The revenue of IRPC-CP decreased by 52% mainly because lower sales volume from the shutdown for commissioning.
- **9M**: The lower in revenue in 9M for 24% was caused by the decrease in electricity sales volume and price resulted from the shutdown and the drop in Ft rate comparing to 9 months in 2016.



SPP is GPSC's main and prospering profit generator

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



Q3/17 VS Q2/17 (QoQ)

Gross profit in Q3/17 decreased by THB 57 million or 5% mainly due to the drop in revenue of IRPC-CP Phase 1.

Q3/17 VS Q3/16 (YoY)

Compare with Q3/16, gross profit increased by THB 153 million or 15% due to higher sales volume from Rayong together with higher Ft rate.

9M/17 VS 9M/16 (YoY)

Gross profit in 9M/17 increased by THB 67 million or 2% due to lower cost of raw materials and maintenance cost following lower dispatch of Sriracha to EGAT.

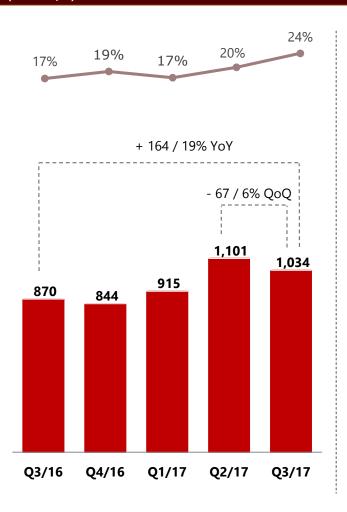


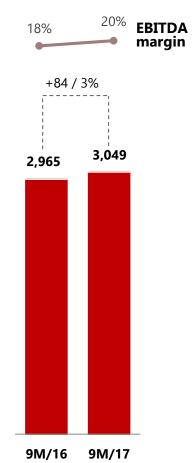




EBITDA increased by 6% QoQ

Quarterly EBITDA and EBITDA margin (THB MM, %)





Q3/17 VS Q2/17 (QoQ)

EBITDA in Q3/17 was THB 1,034 million decreased by THB 67 million or 6% mainly resulted from the shutdown of IRPC-CP Phase 1 to commissioning with Phase 2.

Q3/17 VS Q3/16 (YoY)

Compare with Q3/16, EBITDA increased by THB 164 million or 19% due to lower SG&A from a drop in business development cost.

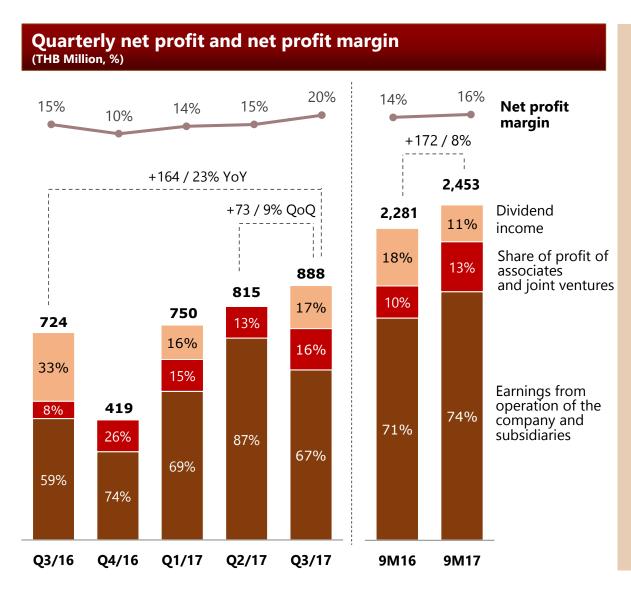
9M/17 VS 9M/16

EBITDA in 9M/17 increased by THB 84 million or 3% when compare to 9M/16 from lower SG&A due to a drop in business development cost.





Net profit grew 23% YoY from strong operating earnings and supported by return from investments



Q3/17 VS Q2/17 (QoQ)

The net profit increased by THB 73 million or 9% due to better performance of the power plants together with dividend receive from RPCL for Baht 150 million and the recognition of construction income from IRPC-CP Phase 1's contractor for Baht 66 million.

Q3/17 VS Q3/16 (YoY)

Net profit increased by THB 164 million or 23% due to the rise in selling price from higher Ft rate and the rise in sales volume at Rayong. Plus, the company recognized construction income from contractor of IRPC-CP Phase 1. Also, higher share of profit from NNEG and BIC.

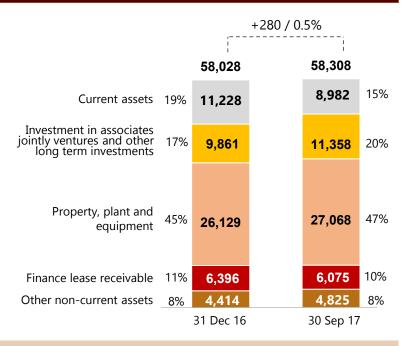
9M/17 VS 9M/16

Net profit increased by THB 172 million or 8% due to better performance of the power plants together with higher share of profit from NNEG and BIC. Plus, a recognition of construction income from IRPC-CP Phase 1's contractor for Baht 66 million.



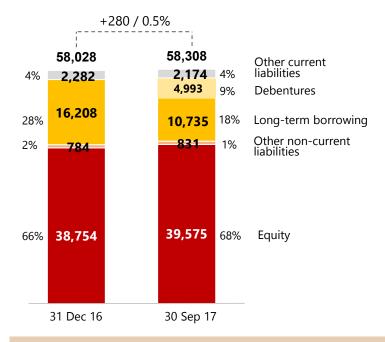
Summary of financial position of GPSC and subsidiaries

Total Assets (THB MM)



- Total assets were THB 58,308 million, increased by Baht 280 million or 0.5% from THB 58,028 million.
- The increase was mainly from increases in investments due to the capital raising of XPCL and BIC

Total Liabilities & Shareholders equity (THB MM)



- Total liabilities were THB 18,733 million decreased by THB 541 million or 3% mainly from repayment of long-term loan and account payable from construction.
- Equity were THB 39,575 million increased by THB 821 million or 2% mainly from an increase in the unappropriated retained earnings.



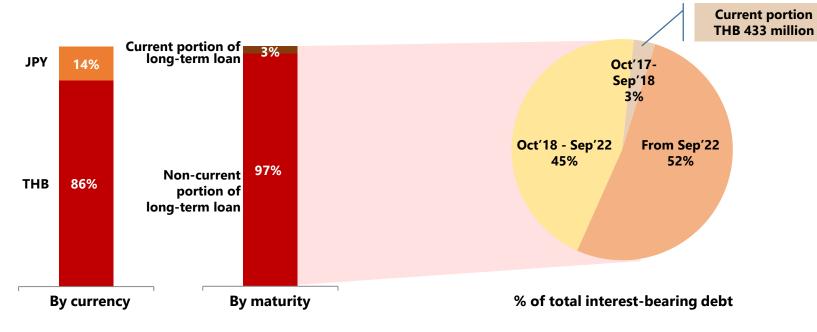


Well-managed debt profile and continuous deleveraging

Debt profile

Debt repayment plan

Total interest-bearing debt: THB 15,728 million



- All debt balance as at 30 September 2017 is in THB and JPY currency.
- 100% of total interest-bearing debt is long-term loan which includes 15% of current portion.

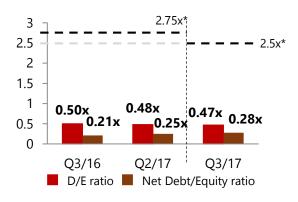
- Non-current portion of long-term debt equals to THB 13,483 million while current portion equals to THB 2,333 million.
- 51% of total interest-bearing debt will be repaid between July 2018 June 2022.





Key financial ratios support GPSC's strong financial position

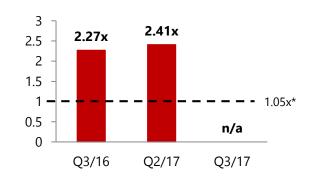
Total D/E and Net Debt/ Equity ratio (Times)



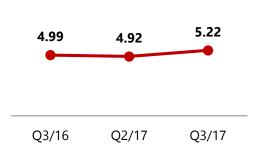
ROE



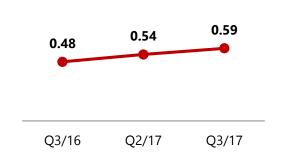




ROA (%)

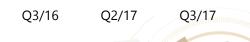


Earning per share (EPS) (Baht/share)



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









Company Overview

Financial Performance

Investment in Affiliates



Bangpa-In Cogeneration Phase 2 (Commercial Operation dated on 29 June 2017)

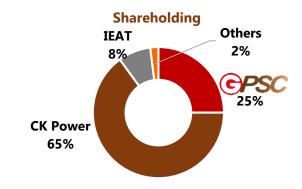


Bangpa-In Cogeneration Company Limited (Phase 2)

Ayutthaya Province



Туре	SPP Cogeneration
Capacity	Electricity: 117 MW (gross)Steam: 20 T/h
Customer	 Electricity: EGAT 90 MW (25 years), IUs 27 MW Steam: IUs 20 T/h
SCOD	29 June 2017
Total Investment	5,340 THB Million
D/E	3:1





IRPC Clean Power Phase 2

(Commercial Operation dated 15 November 2017)





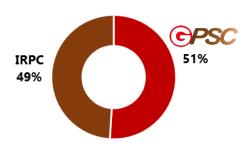


IRPC Clean Power Company Limited (IRPC-CP)

POWER In IRPC Industrial Zone at 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						

Shareholding





Ichinoseki Solar Power 1

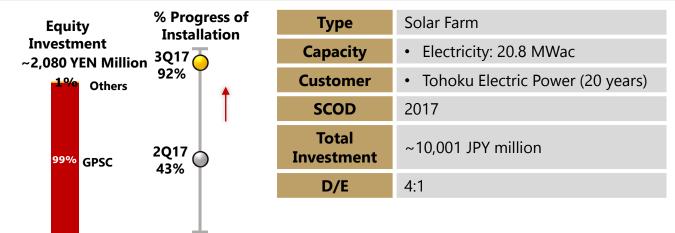




ICHINOSEKI SOLAR POWER 1 GK

Ichinoseki Solar Power (ISP1)

Ichinoseki City, Japan



Progress update

- Secure FiT at 40 JPY/kWh (exclude tax) for 20 years
- Main activities in Area B are piling work, structure work and module installation.
- GPSC first international project to COD in 2017.





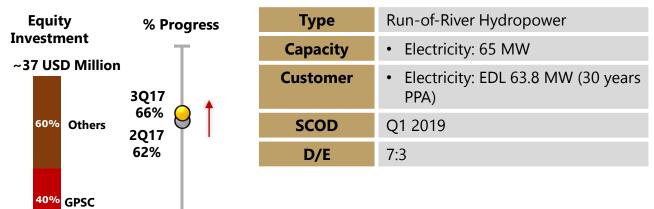
Nam Lik 1 Power



Nam Lik 1 Power Company Limited (NL1PC) Lao PDR

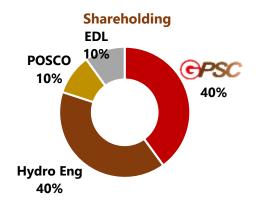






Progress update

Construction progress of the project was 65.9% appraised by technical advisor. The progress was continuing well as planned. Although flooding overtopping in Jul'17 at night time, with the prudence design the works at powerhouse's wall concrete and works inside powerhouse were still ongoing.





Xayaburi Power

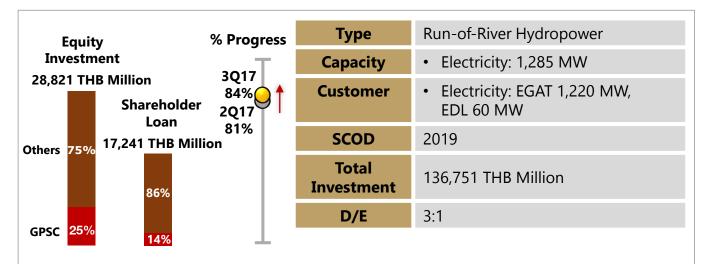


Xayaburi Power Company Limited (XPCL)

Xayaburi, Lao PDR

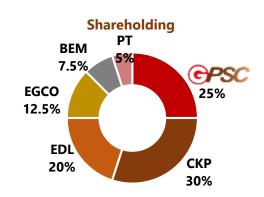






Progress update

 Construction progress of the project continued as planned at 84% which appraised by the government of Lao PDR. Main construction of power house, intermediate block fish ladder and 500 kV transmission line also progressed as planned.





Map Ta Phut Expansion Project

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



CUP

CUP

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 ++
AIE	Sukhumvi Ro.

Shareholding





THANK YOU

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www.qpscqroup.com

Disclaimer

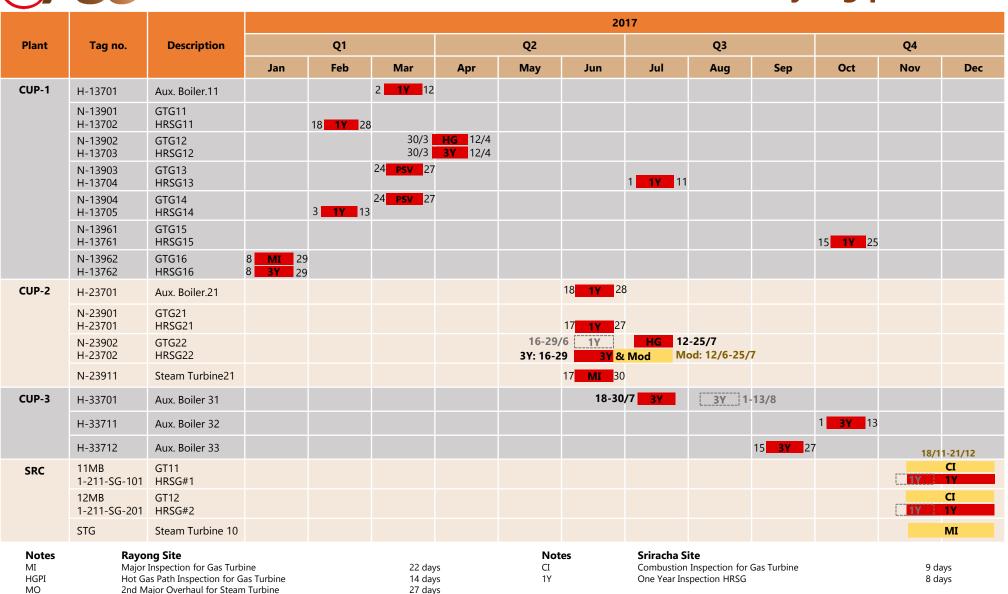
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Ratios	Formula						
Cuasa anafit managin	Gross profit						
Gross profit margin	Revenue from sales of goods and service + Revenue from finance lease						
	Net profit						
Net profit margin	Total Revenue						
Total Debt to Favity	Total liabilities						
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 fatio	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						
- · / /FDG)	Net profit for the company						
Earning per share (EPS)	Weighted average number of shares						
205	Net profit for the company						
ROE	Average shareholder's equity						
DOA.	Net profit (last 12 months)						
ROA	Average assets						
Pools value per chare (P)/PC)	Shareholder's equity for the company						
Book value per share (BVPS)	Average shareholder's equity for the company						



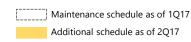
SC 2017 Maintenance schedule: Sriracha and Rayong plants



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Notes	Rayong Site	
MI	Major Inspection for Gas Turbine	22 days
HGPI	Hot Gas Path Inspection for Gas Turbine	14 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
3Y	Three Year Inspection Aux. Boiler	13 days
1Y	One Year Inspection HRSG	11 days
3Y	Three Year Inspection HRSG	14 days
PSV	Pressure Safety Valve Installation	4 days

Notes	Sriracha Site
CI	Combustion Inspection for Gas Turbine
1Y	One Year Inspection HRSG





Maintenance schedule: IRPC-CP

		2016												
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/	09 YI 30,	′09			
	Aux. Boiler				23/0	05 YI 27,	/ 05							

Notes

A Level A inspection 5 days
YI Yearly inspection 5 days

		2017												
Plant	Unit	Q1			Q2			Q3			Q4			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
IRPC-CP	CTG 2B	12/0	D2 IRPC Turnarour	13/03		27,	/06-16/09		1st Synchro	nization/Com	nission	21/07-30/10		
	HRSG2B	12/0)2 IRPC Turnarour	13/03		27,	/06-16/09		1st Synchro	nization/Com	nission	21/07-30/10		
	Aux. Boiler	7/02	IRPC Turnaroun	7/03		26-30	/06 SD	YI 1	5-19/07					

[Maintenance schedule as of 1Q17



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

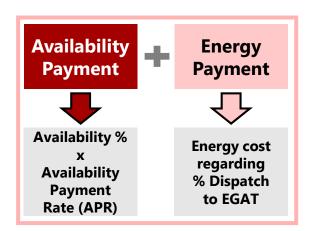
Firm : Contract Term > 5 Years Non-Firm : Contract Term <= 5 Years

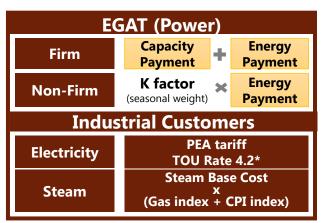
 SPPs can sell their electricity and steam to industrial customers located next to the SPP plant

VSPP

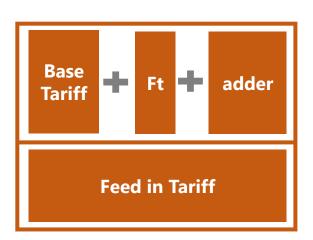
Very Small Power Producer (VSPP):

- 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

GPSC's Business Portfolio Pricing Structure IPP/Import = Availability Payment + **Energy Payment** Investment • Equity Return Fuel Cost Sriracha Xayaburi Rachaburi cost • Financing Cost Variable O&M Power Power Fix O&M 1,400 MW 1,285MW 700 MW SPP (firm) = **Energy Payment Capacity Payment** Vary by type of Vary by type of Nava Nakorn Bangpa-in fuel & Contract fuel IRPC Clean Cogeneration Electricity Power Period Fuel adjustment Generation FX adjustment Phase 1: 117 MW 240 MW 125 MW Phase 2: 117 MW 30 T/h Cogen (SPP non-firm) = K factor(seasonal weight) x EP 20 T/h 300 T/h Cogen (Sell to IU) = Electricity Steam **CPSC** CUP 1-4 384 MW 1,410 T/h • Base Tariff (PEA: TOU 4.2) + Ft Cost Plus Basis **VSPP** Renewable = Base tariff + Ft +Adder Chantaburi's Shrimp Thai Solar Farmer Cooperative Renewable **VSPP** Renewable = FiT 80 MW 5 MW ICHINOSEKI SOLAR POWER 1 GK **Japan : ISP1 20.8 MW** Renewable = FiT MAMUK1 Lao PDR: NL1PC 65 MW Renewable = Fixed Rate with escalation



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		Silaic 70		(17144)	(1/11)	(Cu.iii/11)		
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
IRPC-CP Phase 2	SPP	51%	195	99.4	66.3	-	2017	25-27/2044
CHPP (Solar)	VSPP	100%	5	5	-	-	2016	2041
Consolidate to Fi	Consolidate to Financial Statement			1,171.4	1,493.3	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
BIC-2	SPP	25%	117	29.25	5		2017	25/2042
RPCL	IPP	15%	1,400	210		-	2008	25/2033
Share of	f Profit / D	ividend Incom	ne	338.5	19			
			Total operating	1,509.9	1,512.3	2,080		
UNDER CONSTRUCTION	N							
Rayong Expansion	SPP	100%	45	45	70	-		
ISP1	Solar	99%	20.8	20.6	-	-	2017	20/2037
NL1PC	Hydro	40%	65	26	-	-	2019	27/2044
XPCL	IPP	25%	1,285	321	-	-	2019	29/2048
	412.6	70						
			Total capacity	1,922	1,582	2,080		