



2015 Results Presentation Opportunity Day

3rd March 2016





9.4% CAGR committed growth 2016-2019



Bt 1.9 billion

Net profit increase 21% YoY



2015 Dividend 0.95 Bt

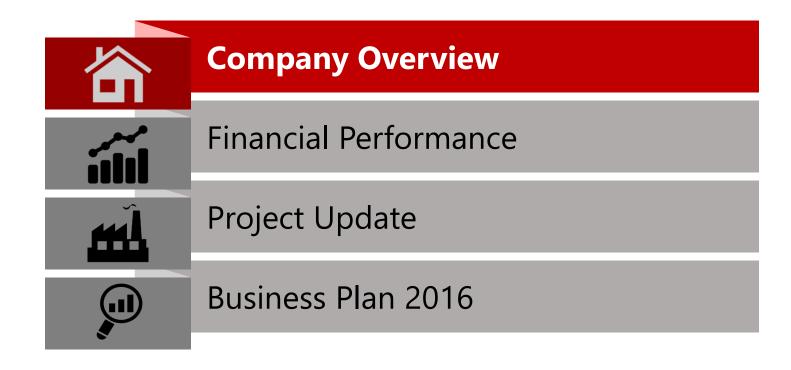
2015 dividend yield 4.28%



IRPC-CP COD in Nov 2015

NNEG 93% completion, SCOD by Jun 16







PSC Introduction to GPSC's Power Production

Source of Energy (Input)



NATURAL GAS



WATER



Type of Power Plant

Single Cycle

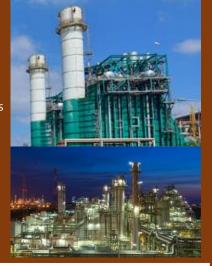
The use of gas turbine to generate electricity. It can quickly achieve full generation capacity.

Combined Cycle

A use of both gas and steam turbines. The waste heat from gas turbine is routed to nearby steam turbine to generate extra power.

Cogeneration

The use of gas to produce electricity together with thermal energy (heat, gas, steam), resulting in high efficient usage and the stabilization of supply.



Hydroelectric

The water that is kept by a dam will be permitted to flow through a large pipe to driving a water turbine and a generator.

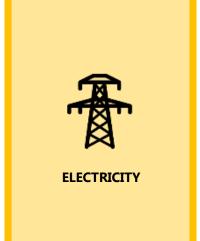


Renewable

Solar panel is a panel designed to absorb the sun's rays as a source of energy for generating electricity or heating.



Product (Output) STEAM INDUSTRIAL WATER **CHILLED** WATER





Power Plant Definition and Revenue Structure

IPP

Independent Power Producer (IPP):

- A larger power producer who has electricity capacity more than 150 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 90 MW to EGAT

SPP Type

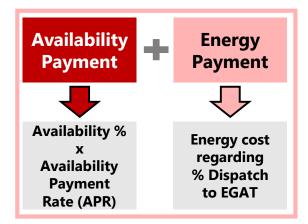
Firm : Contract Term > 5 Years Non-Firm : Contract Term <= 5 Years

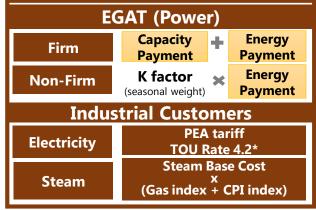
 SPPs can sell their electricity and steam to industrial customers located next to the SPP plant

VSPP

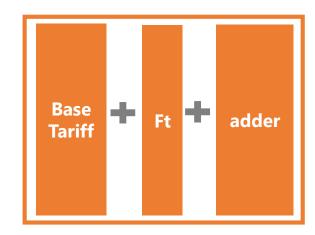
Very Small Power Producer (VSPP):

- 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



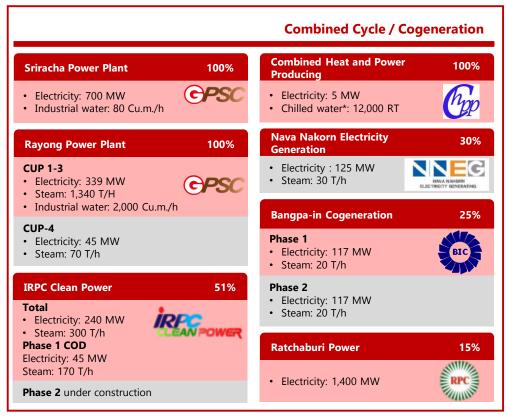


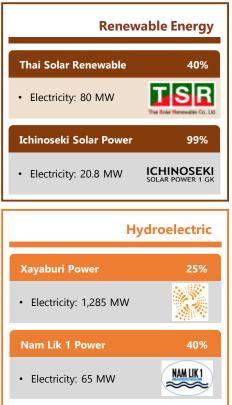
*https://www.pea.co.th/Documents/Rate2015.pdf Reference rate with conditions





C GPSC's Business Portfolio







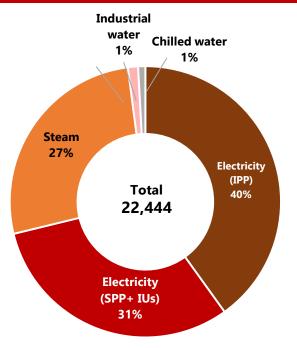
Business Service Alliance 25% 24M Technologies 17% 24m

Project under construction

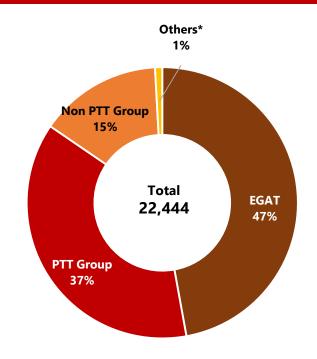


70% of GPSC's revenue is from electricity, EGAT is GPSC's largest power customer...





2015 Revenue by customer (THB million)



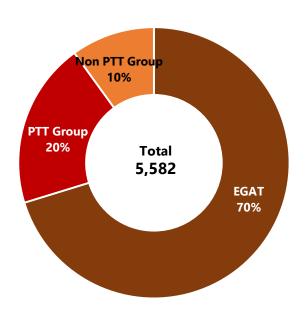
• Electricity and Steam are major source of GPSC's revenue, accounted for 95% of total revenue.

 Accounted for almost 50% of total revenue, EGAT is the largest customer of GPSC

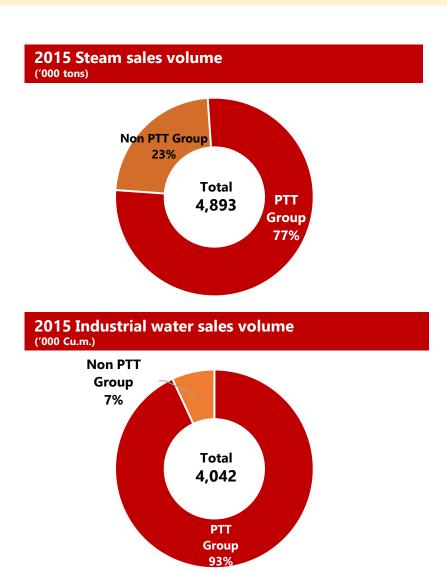


...while PTT Group is a major customer for steam and industrial water

2015 Electricity sales volume (GWh)



- EGAT is a major customer of Electricity, which accounted for 70% of total electricity sales volume
- PTT Group is a major customer for steam (77%) and industrial water (93%)



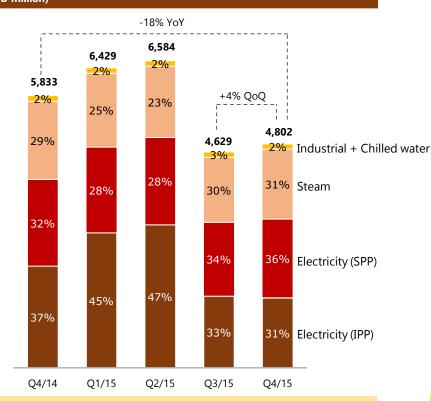






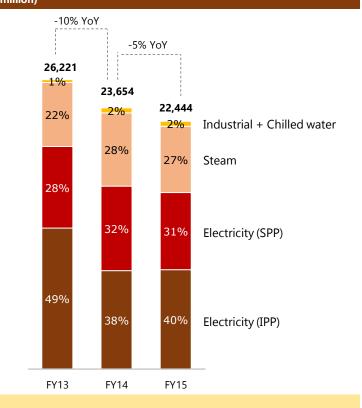
SC 2015 Revenue of Bt 22.4 billion, decreased 5% YoY

Quarterly revenue (THB million)



Q4/15: Revenue increased by 4% QoQ mainly from additional income from IRPC-CP Phase 1 of 264 THB million (SPP-COD in November 2015)

Annual revenue (THB million)



FY15: Revenue decreased by 5% YoY due to decrease in Rayong Plant revenue (SPP), caused by CUP-2's minor inspection and several customers' maintenance shutdown

C IPP and SPP revenue breakdown

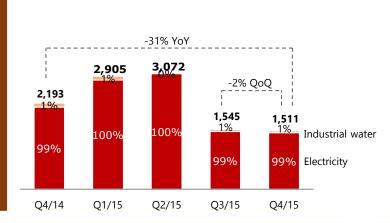
Quarterly revenue (THB million)

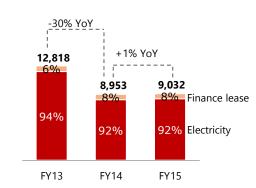


IPP: Sriracha Power Plant

Rayong Power Plant

SPP:





FY15: Revenue from IPP increased by 1% YoY thanks to an increase in revenue from AP.

Q4/15: Revenue from IPP

decreased by 2% QoQ mainly due to a lower demand for

electricity consumption at the end of the year. In addition

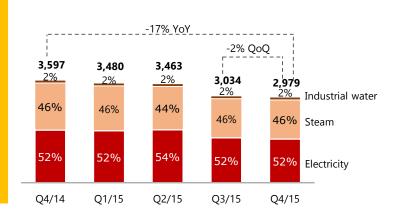
YoY mainly due to a half block

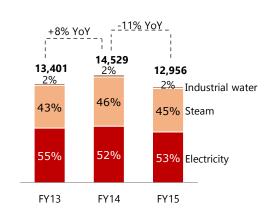
revenue decreased by 31%

dispatch from EGAT.

Quarterly revenue (THB million)



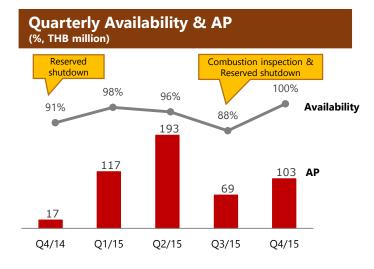




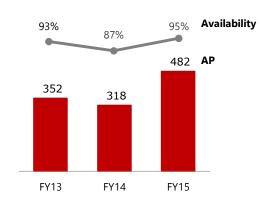
- Q4/15: Revenue from SPP decreased by 2% QoQ mainly due to lower average sales price of electricity and steam. In addition revenue decreased by 17% YoY mainly from customers' maintenance and unplanned shutdown.
- FY15: revenue from SPP decreased by 11% YoY as there was a CUP-2 minor inspection in Q1/15 and several customers had scheduled maintenance...



C Sriracha Power Plant (IPP): Power

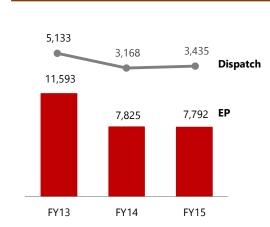




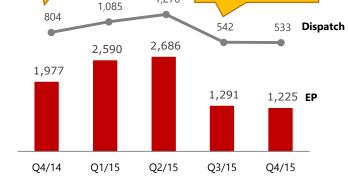


- Q4/15: Revenue from AP increased by 49% QoQ thanks to a normal operation with 100% availability rate after a plant shutdown in Q3/15
- FY15: Revenue from AP increased by 52% YoY from higher total Availability of 95%:
 - No hot gas path inspection in 2015
 - Baht depreciation against USD which is one of the factors for AP calculation





- Q4/15: Revenue from EP decreased by 5% QoQ mainly due to lower electricity demand from seasonal consumption
- FY15: Revenue from EP slightly decreased by 0.4% YoY while total dispatch increased mainly due to lower price of natural gas which is one of the factors for EP calculation



1,276

Combustion inspection &

Reserved shutdown

Quarterly Dispatch & EP

(GWh, THB million)

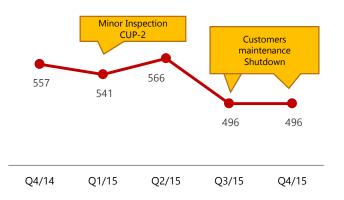
Reserved

shutdown

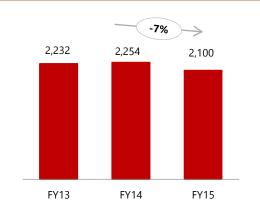


Rayong Power Plant (SPP): Power

Quarterly Power Sales Volume(GWh)



Annual Power Sales Volume (GWh)

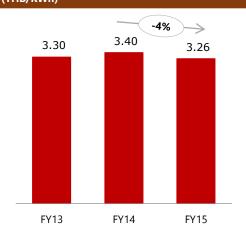


- Q4/15: Sales volume remained stable, compared with Q3 due to customer maintenance shutdown
- FY15: Sales volume decreased by 7% YoY mainly due to
 - CUP-2 minor inspection in Q1/15
 - Several customers' scheduled maintenance

Quarterly Average Sales Price & Average Ft price (THB/KWh)



Annual Average Sales Price (THB/KWh)



- Q4/15: Average sales price decreased by 3% QoQ due to drop in sale price per unit which was in line with a sale price to EGAT, referred to the Power Purchase Rate announcement for SPP
- FY15: Average sales price decreased by 4% YoY which was in line with a downtrend of Ft price



Rayong Power Plant (SPP): Steam

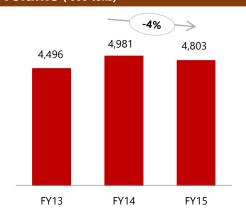
Quarterly Steam Sales Volume ('000 tons)



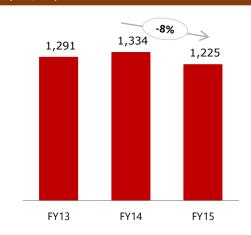
Quarterly Average Sales Price (THB/ton)



Annual Steam Sales Volume ('000 tons)



Annual Average Sales Price (THB/ton)

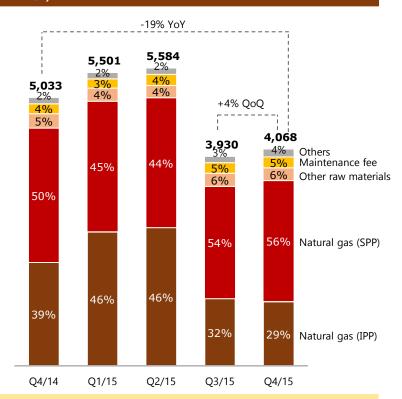


- Q4/15: Sales volume increased by 7% QoQ as two customers that had scheduled maintenance in Q3 were back to buy steam product
- FY15: Sales volume decreased by 4% YoY mainly due to
 - CUP-2 minor inspection in Q1/15
 - Several customers' scheduled maintenance
- Q4/15: Average sales price decreased by 7% QoQ affected from lower price of natural gas
- FY15: Average sales price decreased by 8% YoY which was in line with downtrend of natural gas price



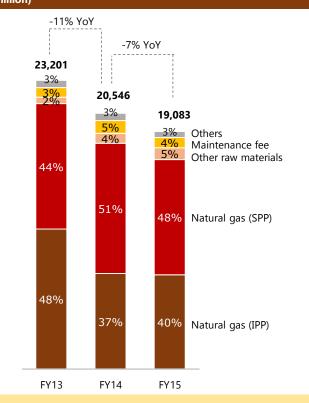
Decrease in cost of sales and services was in line with revenue

Quarterly cost of sales and services (THB million)



Q4/15: Cost increased by 4% QoQ which was in line with operating income

Annual cost of sales and services (THB million)

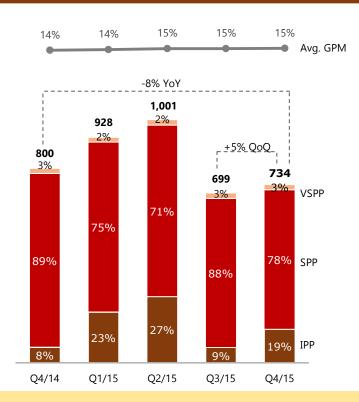


FY15: Cost decreased by 7% YoY from lower natural gas cost of SPP and lower maintenance expenses of Sriracha plant in 2015



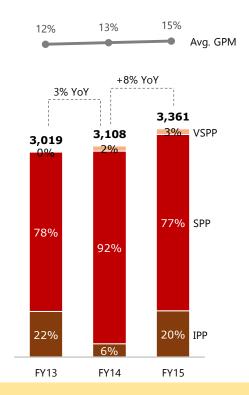
2015 Gross profit improved 8% YoY with average gross profit margin of 15%

Quarterly gross profit and gross profit margin (THB million, %)



Q4/15: Gross profit increased by 5% QoQ mainly due to lower cost of natural gas and lower maintenance expense of IPP

Annual gross profit and gross profit margin (THB million, %)

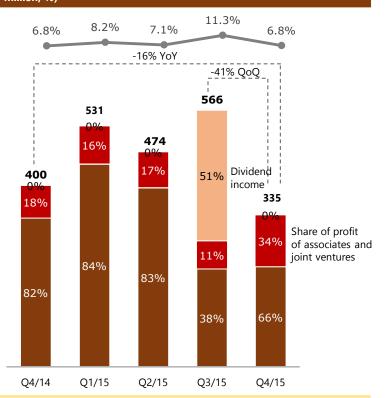


FY15: Gross profit increased by 8% YoY mainly from better performance of Sriracha IPP plant (lower cost of natural gas and lower maintenance expense)



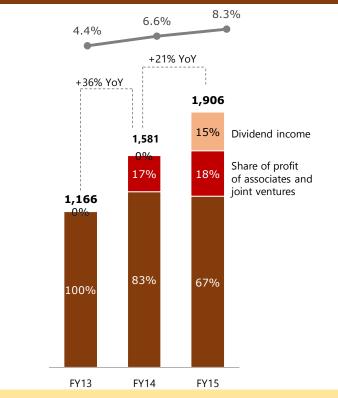
2015 Net profit significantly increased 21% YoY, with 8.3% net profit margin

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



Q4/15: Net profit decreased by 41% QoQ as GPSC received dividend income from RPCL of 288 THB million in Q3/15; however net profit before recognizing dividend income increased by 20.5%

Annual net profit and net profit margin (THB million, %)

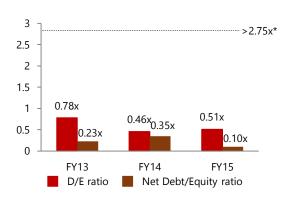


- FY15: Net profit increased by 21% YoY thanks to
 - Increase in IPP sale electricity as there was no minor maintenance (Hot Gas Path Inspection) in 2015
 - Dividend income from RPCL in Q3/15
 - Performance of IRPC-CP Phase 1 from COD in Q4/15

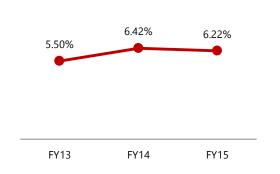


PSC 2015 Dividend of 0.95 THB/ share, 4.28% dividend yield

D/E and Net Debt/ Equity ratio



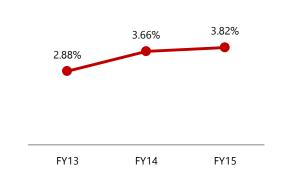








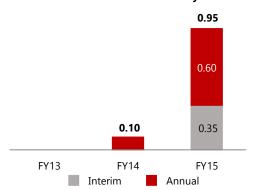










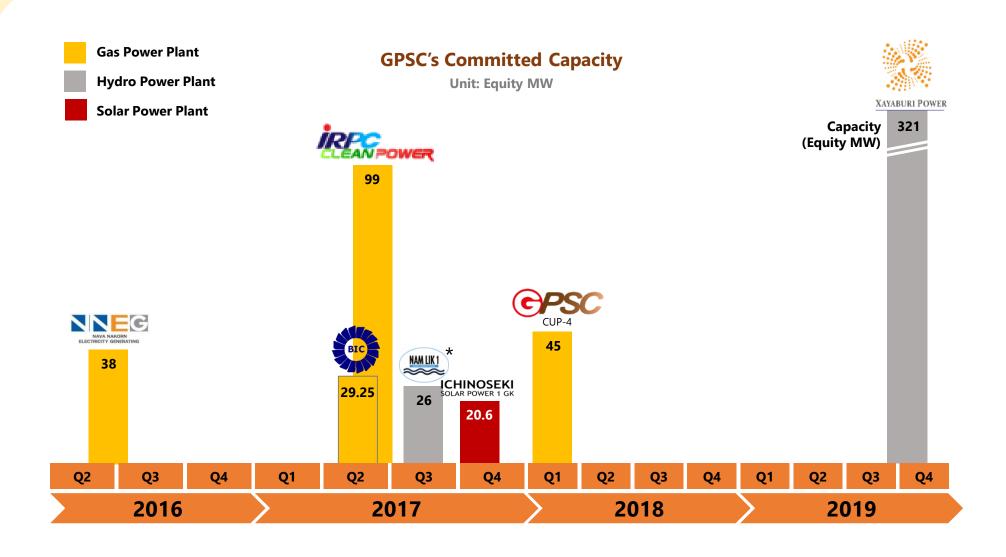








PSC 7 Committed Projects to operate by 2019





Nava Nakorn Electricity Generating (NNEG)





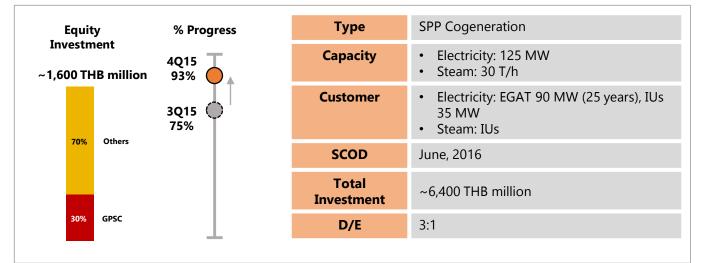




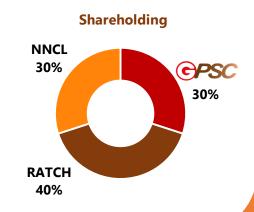


Nava Nakorn Elecricity Generating Company Limited (NNEG)

Pathumthani Province



- NG&MRS construction progress 100%
- Secure MOU with IUs 38MW and 41T/h
- LTSA was signed
- O&M service agreement was completed





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



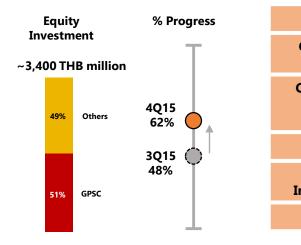






IRPC Clean Power Company Limited (IRPC-CP)

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



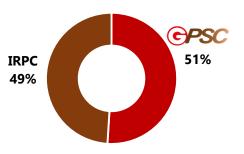
	SPP Cogeneration
Capacity*	Electricity: 240 MWSteam: 300 T/h
Customer*	 Electricity: EGAT 2x90 MW (25 years), IRPC 60 MW (27 years) Steam: IRPC 180-300 T/h
SCOD	June, 2017
Total Investment	~13,600 THB million
D/E	3:1

Progress update

Phase2 Under Construction

Progress 62%

Shareholding





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





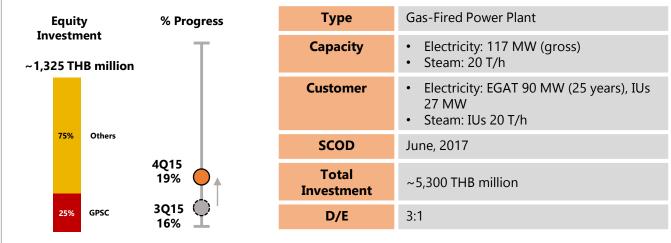




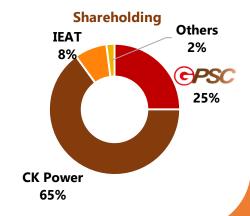


Bangpa-In Cogeneration Company Limited (Phase 2)

Ayutthaya Province



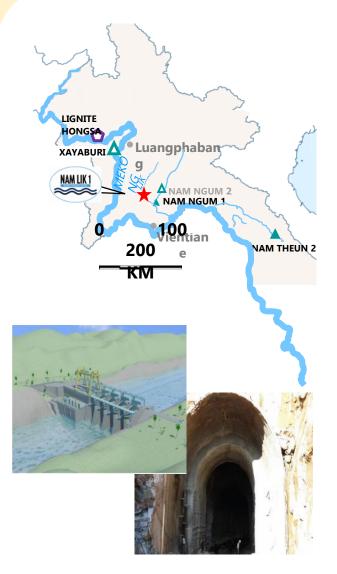
- EIA has been approved
- BOI has been approved
- Commenced construction in February 2015
- Power and steam sales is under negotiation with IUs within industrial estates





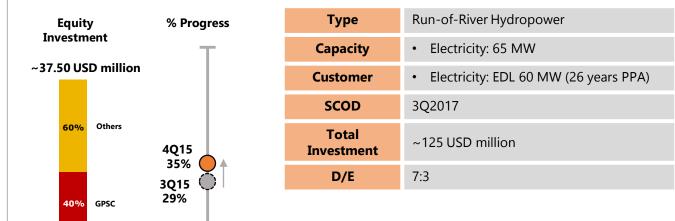
Nam Lik 1 Power Company Limited (NL1PC)



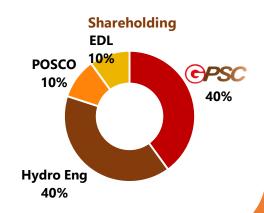




Nam Lik 1 Power Company Limited (NL1PC) Lao PDR



- The overall project progress until Dec15, was 35%
- The construction works for the period were related to dam excavation, diversion works, permanent access road and operator's village
- Construction Progress 9.4%





SC Ichinoseki Solar Power (ISP1)

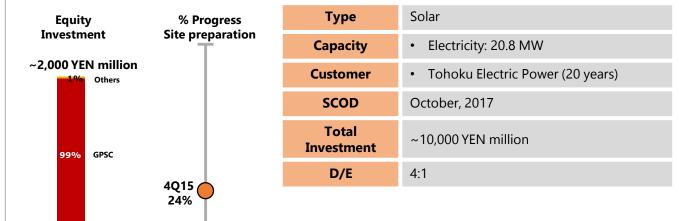




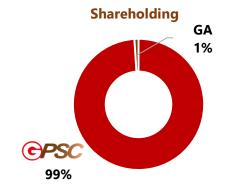




Ichinoseki Solar Power (ISP1)Japan



- Project received permission to expand power capacity to 20.8 MWAC
- Already received relevant licenses including Grid Connection Agreement
- PPA contract with Tohoku Electric Power Company is almost concluded.
- EPC contracts and Credit facility agreement are almost finished
- Plan to start construction on Jan-March 2016





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





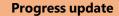
Central Utility Plant Project 4 (CUP-4)

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



950

Туре	Gas-fired Cogeneration Power Plant/Utilities
Capacity	Electricity: 390 MW (Phase 1: 45 MW)Steam: 900 T/h (Phase 1: 70 T/h)
Customer	Electricity: IUs 35 MWSteam: IUs 120 T/h
SCOD	1Q2018
Total Investment	~4,000 THB million



- EIA has been approved Under apply all permits/ licences Secure agreements with IUs 35 MW, 120T/H and waiting for another 20-mw non-firm SPP contract with EGAT
- Under negotiating on Land, new pipelines laydown with PTT Under evaluating OE for ITB-EPC GPSC BOD have approved on 13 Aug 2015

- PMC has been awarded
- Plan to award EPC in Mar-Apr 2016
- Plan to start construction in later Q1/2016
- SCOD: Later Q1/2018

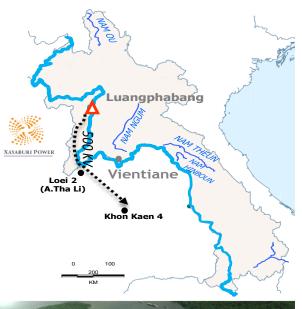
Shareholding

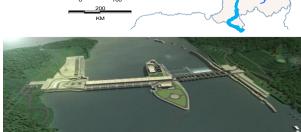




PSC Xayaburi Power Company Limited (XPCL)



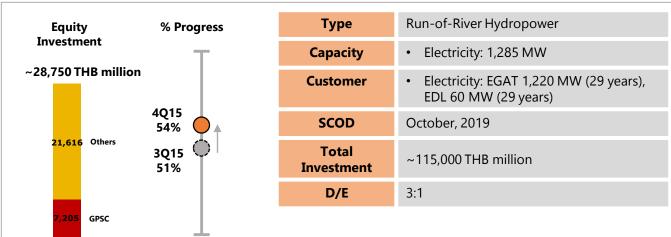




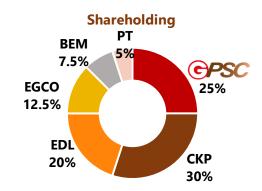




Xayaburi Power Company Limited (XPCL) Xayaburi, Lao PDR



- 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

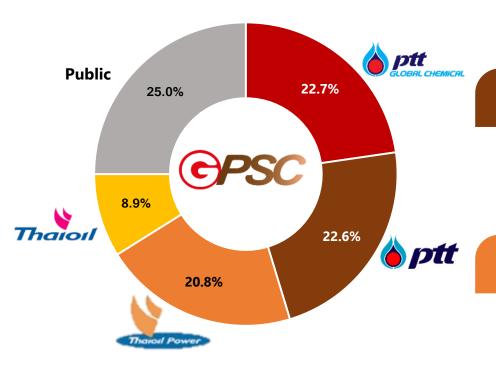






PSC Vision, Mission, and Goal

GPSC's Shareholding Structure*



Vision

Global Best Practice in Power Business

Mission

Being Power Flagship of PTT Group to Develop, Invest and **Operate in Power Business Domestically and Internationally**

Goal

- Aims to reach secured capacity of 2,800 MW in 2019
- At least 10% Renewable of GPSC's Portfolio
- At least 30% International Assets in Portfolio
- Attain Top Quartile Performance through OEMS

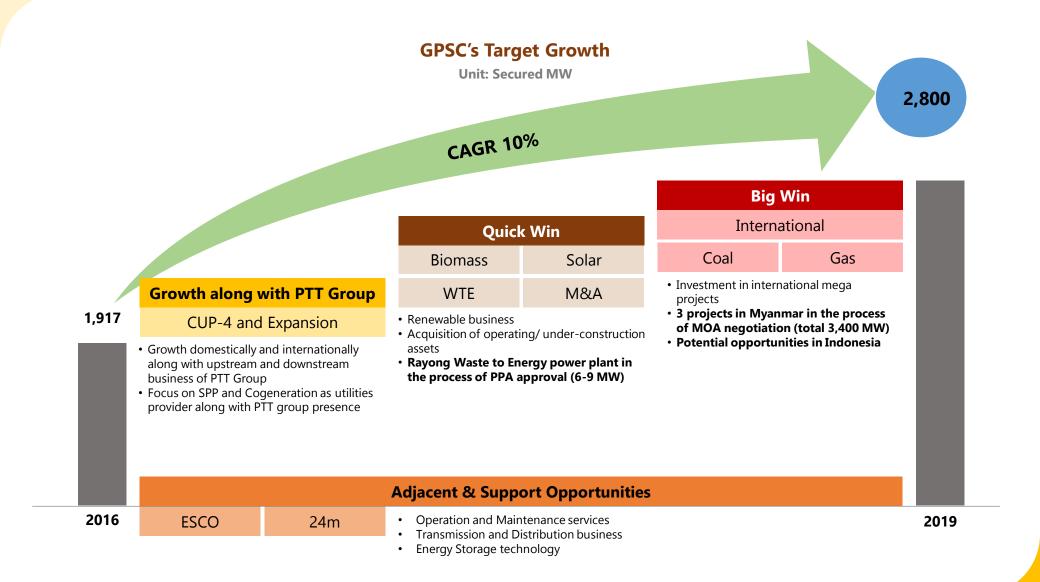


PSC Outstanding growth 2016-2019





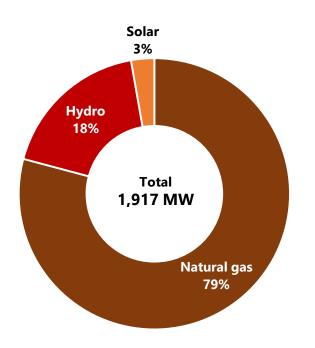
C Growth Strategy to secure 2,800 MW by 2019





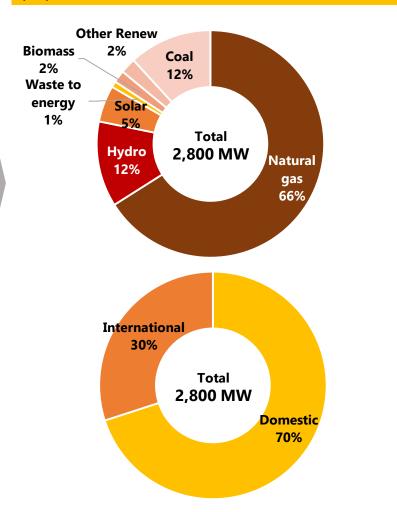
Target 10% of Renewable energy and 30% of International projects in 2019 GPSC's Portfolio





- GPSC target's "Total Renewable capacity 10% of 2,800 MW" lead to investment plan in various type in Renewable projects approx. 200~300 MW in both domestic and international
- GPSC target's "International Portfolio 30% of 2,80 MW" lead to investment plan in various type in both Conventional and Renewable projects approx. 850 MW

2019 Committed Portfolio







Appendix



Current Operating Asset (IPP): Sriracha



Sriracha Power Plant

Chonburi Province (40 Rai leasehold land)



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





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 ++
	201 31 13 years 1



7

SP



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
	Liid. 2000





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 YearsEnd: 2030









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









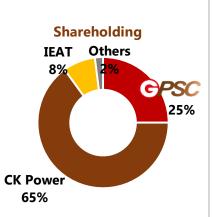
Bangpa-in Cogeneration Company Limited

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 Years End: 2038









Current Operating Asset:



Ratchaburi Power Company Limited

Ratchaburi Province

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





Shareholding RATCH 25% Others 45% PIA 15%



Ratios	Formula
D/E ratio	Total liabilities/ Total shareholder's equity
Net Debt/ Equity ratio	(Interest bearing debt – Cash and cash equivalent – Restricted account – Current investment)/ Total shareholder's equity
DSCR	EBITDA/ (Total debt obligations due within one year + Total interests due within one year)
ROE	Net profit/ Average total assets
ROA	Net profit/ Average total shareholder's equity
Dividend yield	Dividend per share)/ GPSC's share price (30 DEC 15)



THANK YOU

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