



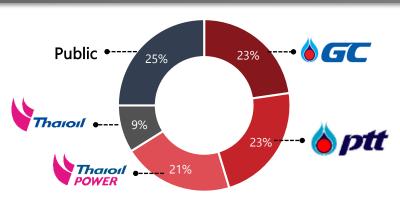
GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED

Q1/2019 OPPORTUNITY DAY

May 28th, 2019

GPSC Innovative Power Company at a Glance

Shareholding Structure



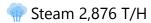
Thai Oil Power is 74% held by Thai Oil and 26% by PTT

Company Information

Head Office	555/2 Energy Complex Building B, 5th Floor, Vibhvadi-Rangsit Road, Chatuchak, Bangkok, Thailand
Business Type	Energy & Utilities
Registered Capital (Fully Paid)	THB 14,983 million
Market Cap (As of 17 May 2019)	THB 85,777.72 million

In 2019, Total Equity Capacity¹

9 Electricity 5,026 MWe





Electricity 4,463 MW
Steam 2,876 T/H

Chilled Water 15,400 RT

Industrial Water 7,372 Cu.m./H



9 Electricity 114 MW



Electricity 449 MW



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



Note: 1. Equity capacity includes 100% stake in GLOW, GRP and ERU. 2. Equity capacity includes ERU.

GPSC Customers' Profile



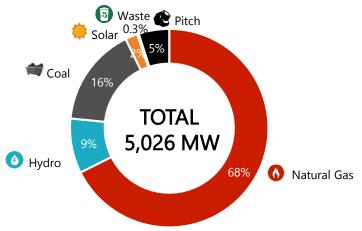
LONG TERM OFF TAKE CONTRACTS

- ✓ Guaranteed market and source of revenue
- ✓ Guarantee a minimum level of profit in regards to their investment
- ✓ Price adjustment formula, varying with fuel price



GPSC's Business Portfolio by Fuel and Plant Type

Equity Capacity by fuel types



F	In	stalled M	w	Equity MW				
Energy Type	Total capacity	%	In operation	Total capacity	%	In operation		
Natural gas	5,047	63.00%	4,927	3,399	67.63%	3,321		
Hydro	1,502	18.75%	152	449	8.93%	102		
Coal	1,045	13.04%	1,045	814	16.20%	814		
Solar	149	1.86%	109	101	2.01%	61		
Waste	18	0.22%	-	13	0.26%	-		
Pitch	250	3.12%	-	250	4.97%	-		

6,233

5,026

4,298

100%

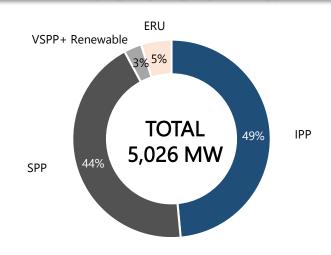
100%

8,011

Note: Base on 100% in GLOW

Total

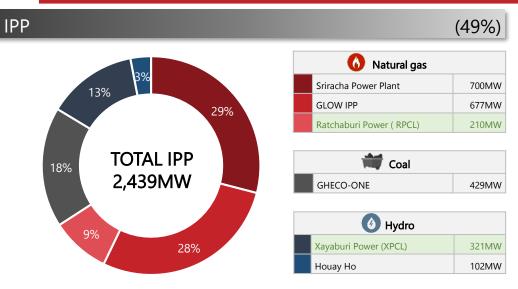
Equity Capacity by Plant Type



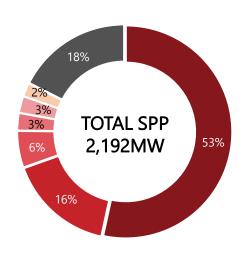
Energy Type	In	stalled M	W	Equity MW			
Energy Type	Total capacity	%	In operation	Total capacity	%	In operation	
IPP	4,910	61.29%	3,625	2,439	48.53%	2,118	
SPP	2,614	32.63%	2,494	2,192	43.61%	2,114	
VSPP + Renewable	237	2.96%	114	145	2.88%	66	
ERU	250	3.12%	0	250	4.97%	0	
Total	8,011	100%	6,233	5,026	100%	4,298	



GPSC's Business Portfolio by Plant Type

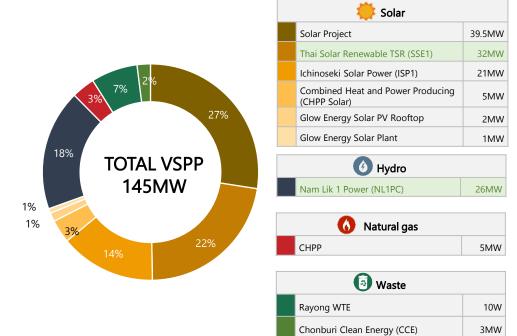


SPP (43%)



n (110.4.0	
Rayong CUP 1-3	354MW
IRPC-CP (Phase 1-2)	122MW
Bangpa-in Cogeneration BIC (Phase 1-2)	59MW
NNEG	56MW
Rayong CUP 4	45MW

VSPP and Renewable



ERU (5%)



Pitch	
Thaioil	250MW



(3%)

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

Small Power Producer (SPP):

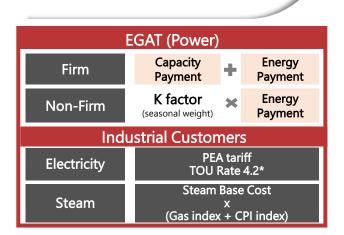
 A small power producer who sell their electricity no more than or equal to 90 MW to EGAT

SPP

SPP Type

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

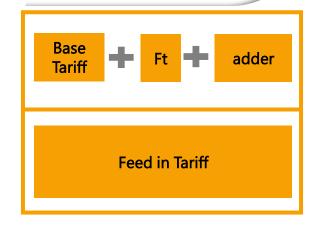
 SPPs can sell their electricity and steam to industrial customers located next to the SPP plant

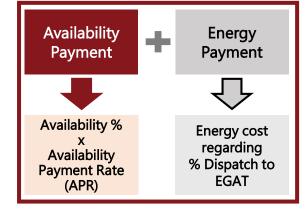


VSPP

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







GPSC Growth and Strategic Direction



Updates on GLOW Acquisition



Investment in Affiliates



Financial Performance



Q1 2019 KEY HIGHLIGHTS 'GROWING PROFIT WITH SUSTAINABILITY AND CONTROL'









SIGNIFICANT GROWTH

- □ GPSC completed the acquisition of GLOW 69.11% on March 14. 2019, and submitted the Tender Offer for Securities for the 30.89% remaining shares of GLOW on March 22, 2019
- Integration with GLOW will consist of 3 phases, with next six months focused on planning and capturing quick wins
- Coordinated with PTT Group on ESS and new S-curve projects, aiming to be a system integrator

PROFIT

- 118% increase in EBITDA QoQ due to contribution of GLOW and better operation of Sriracha Power Plant
- 27% of gross profit margin in Q1/2019 due to better performance with better cost management of Sriracha Power Plant
- 12% of normalized net profit margin in Q1/2019 due to better

performance of Sriracha

SUSTAINABILITY

THB 0.80 per share

dividends for 2H/2018 which was paid on April 18, 2019

- Awards from
 - Best Power Company 2019 and Best IR Company (Energy Sector) from International Business Magazine
 - · CFO of the year from the Asset Triple A awards
 - OEMS Improvement (Gold Award) and Best Practice Sharing from PTT Group Operational Excellence Award 2019

CONTROL



Nam Lik1's construction is 100% completed



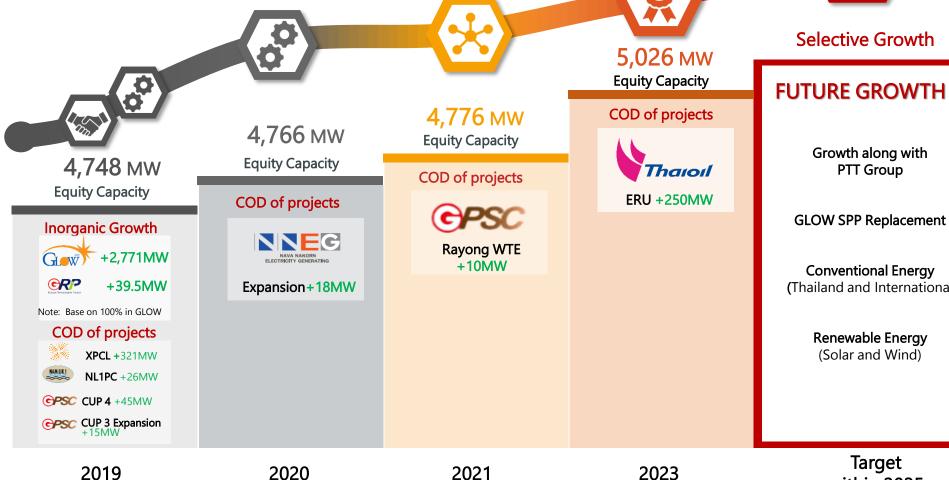
Xavaburi and CUP4 which are under construction expected to COD within 2019



NNEG expansion phase expected to COD in 2020



GPSC Electricity Growth Pipeline





(Thailand and International)

within 2025



Strategic Direction and Growth Strategy 3 Pillars





Operation Excellence & Asset Optimization

Corporate & Business Infrastructure



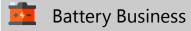


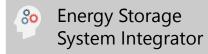
Domestic and International



Renewable















GPSC Growth and Strategic Direction



Updates on GLOW Acquisition



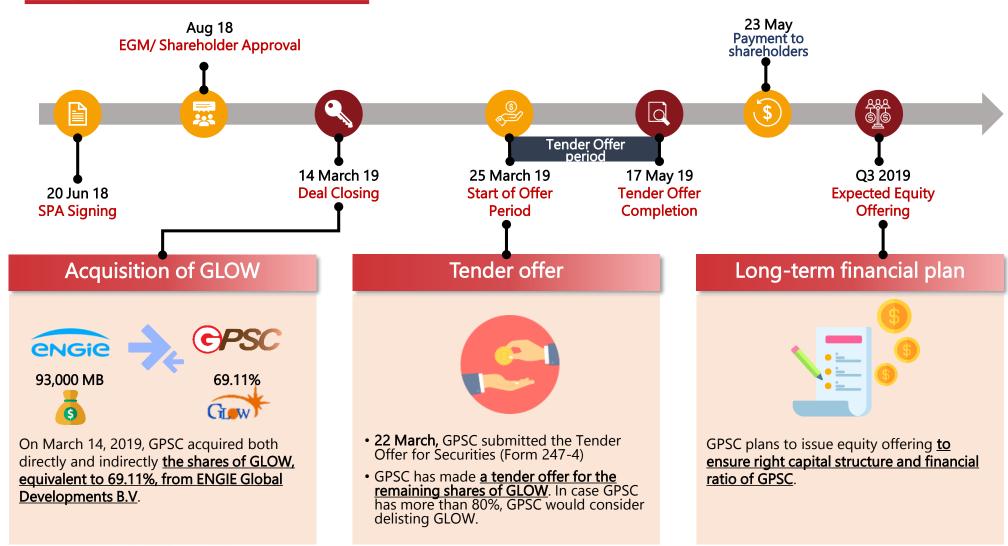
Investment in Affiliates



Financial Performance

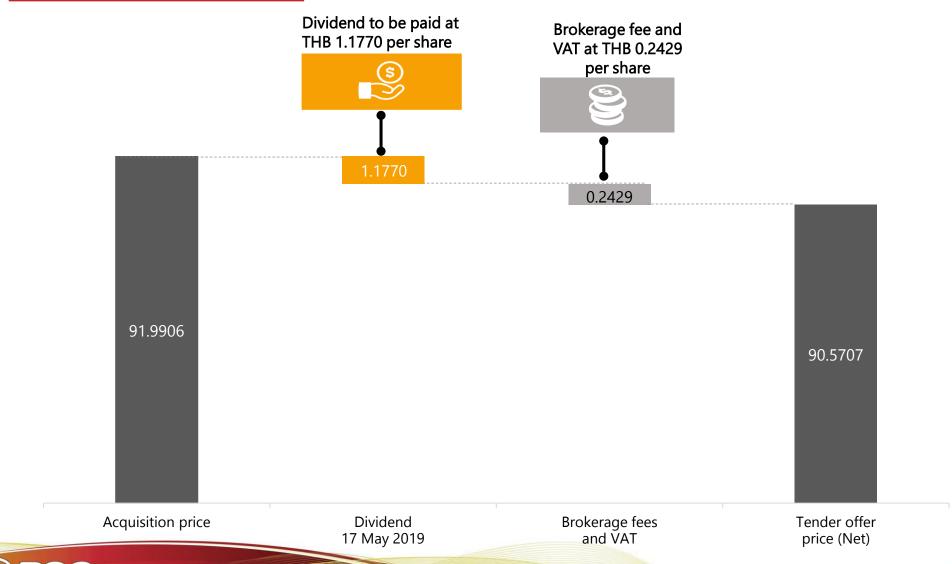


Acquisition Transaction Timeline and Long-term Finance Plan





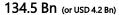
Purchase Price and Tender Offer Price of GLOW



Use and Source of Fund with Deleveraging Plan

USE OF FUND

SOURCE OF FUND AND DELEVERAGING PLAN FOR FUTURE GROWTH



Loan from PTT and GC 35 Bn (or USD 1.1 Bn)

Bridge loan from Financial Institutions 99.5 Bn (or USD 3.1 Bn) Equity ≤74 Bn (or USD 2.3 Bn)

Loan and Debentures



Consideration of GLOW's shares for 69.11%

Consideration for Tender offer 30.89%

GPSC Bridging loan

Net D/E 1.96X Deleveraging plan

Target Net D/E 1X

USE OF FUND FOR FUTURE GROWTH

- GPSC acquired shares of GLOW, equivalent to 69.11% from ENGIE Global Developments.
- GPSC completed the payment amounting to THB 93,000 million in total.
- GPSC has made a tender offer to purchase the remaining 30.89% shares of GLOW.

SHORT-TERM PLAN

GPSC secured the shortterm loan at THB 134,500 million from PTT, GC and Financial institutions.

LONG-TERM FINANCIAL PLAN

- After the capital restructuring plan, GPSC will repay short-term loan with debentures/ longterm loan, equity injection, and net dividend payment from GLOW
- The fund will also be used in investments for future growth.



Note: Use FX = 31.975 THB/USD; the w.a. selling rate announced by the BOT on 22 May 2019





GPSC Growth and Strategic Direction



Updates on GLOW Acquisition



Investment in Affiliates



Financial Performance



Xayaburi Power Company Limited (XPCL)





PROJECT SUMMARY

TYPE

ELECTRICITY (MW)



Run-of-River Hydropower Plant 1,285

LOCATION

CUSTOMER

Lao PDR





• EGAT (1,220 MW)



Electricite Du Laos (EDL) (60 MW)

GPSC HOLDING

25%

Of total share

PROJECT UPDATE

- The main construction tasks, such as power house, intermediate block and fish ladder were mostly completed.
- The commissioning test of each unit has been in progress in order to sell electricity during the Unit Operation Period (UOP).



Nam Lik 1 Power Company Limited (NL1PC)





PROJECT SUMMARY

TYPE

ELECTRICITY (MW)



Run-of-River Hydropower Plant 64.7

LOCATION

CUSTOMER

Northern of Vientiane, Lao PDR





• Electricite Du Laos (EDL) (63.8 MW for 30 years from signing

GPSC HOLDING

PROJECT UPDATE

40% Of total share • Overall construction and commissioning test was completed.

CENTRAL UTILITY PLANT 4 : ©PSC CUP-4 (THAILAND)



PROJECT SUMMARY

TYPE

ELECTRICITY (MW)

STEAM (T/h)



Gas-fired Cogeneration

45

70

LOCATION

CUSTOMER

Asia Industrial Estate, Rayong



Industrial users in Asia Industrial Estate and neighboring industrial estate





GPSC HOLDING

PROJECT UPDATE

100% Of total share

- Most of installations and erections have been completed, and prepared for unit test and commissioning
- Power and steam pipe distribution interconnection achieved over 80%, and next activity will be integration test and commissioning.

Nava Nakorn Electricity Generation (NNEG) | Expansion Project





PROJECT SUMMARY

TYPE

ELECTRICITY (MW)

STEAM (T/h)

) 6

Gas-fired Cogeneration **Expansion**

60

10

Total

185

40

LOCATION

CUSTOMER

• Industrial User



• EGAT (SPP Firm 90 MW for 25 years)



GPSC HOLDING

Nava Nakorn Industrial Promotion Zone, Pathumthani

> 30% Of total share

PROJECT UPDATE

- Piling work was completed
- Main tasks such as engineering, foundation and procurement work for machines and equipment were executed as planned.





GPSC Growth and Strategic Direction



Updates on GLOW Acquisition



Investment in Affiliates

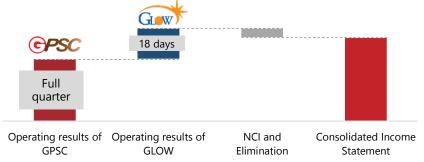


Financial Performance

Accounting Impact of Q1/2019 Consolidated Financial Statements

Accounting impacts on Q1/2019 financial statements

Q1/2019 Consolidated Statement of Income



The company has consolidated GLOW's operating results for 18 days after the acquisition into the consolidated statement of income

Q1/2019 Consolidated Statement of Financial Position



The company has consolidated GLOW's assets, liabilities and equity for entire amount into the consolidated statement of financial position

Key financial highlights



55% increase in Revenue QoQ



97% increase in Gross proft QoQ



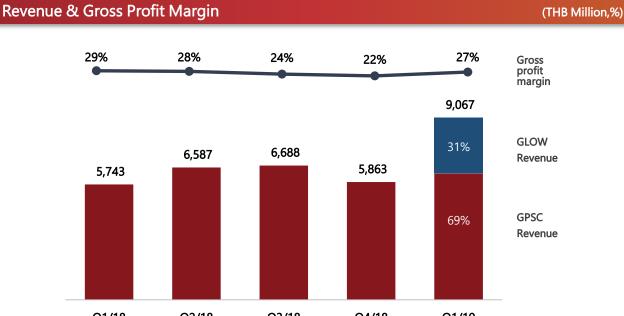
118% increase in EBITDA QoQ



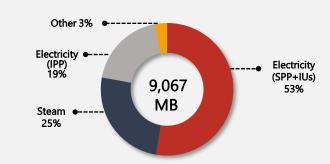
94% increase in Net profit QoQ



Q1/2019 Financial Performance Summary (1/2)

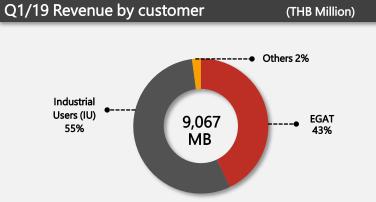


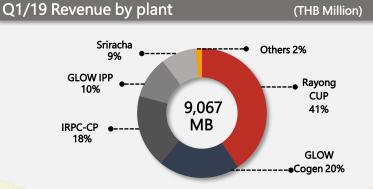




(THB Million)

Q1/19 Revenue by product

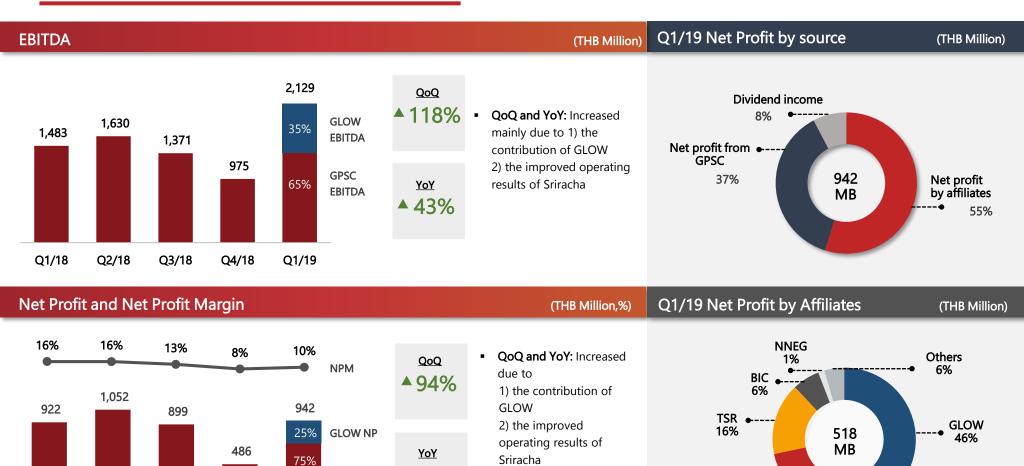






major overhaul in Q4/18

Q1/2019 Financial Performance Summary (2/2)



RPCL

3) dividend income from

IRPC-CP

26%

GPSC NP

Q1/19

2%



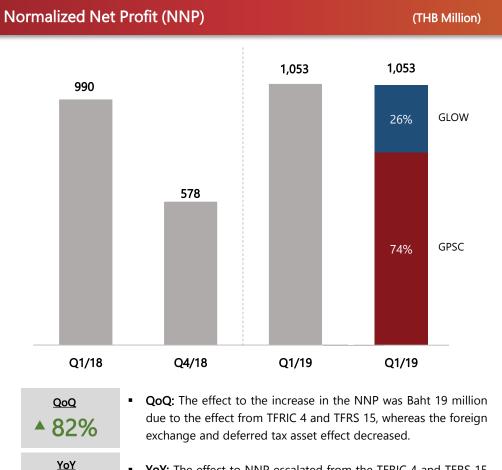
Q2/18

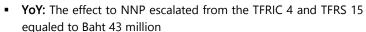
Q3/18

Q4/18

Q1/18

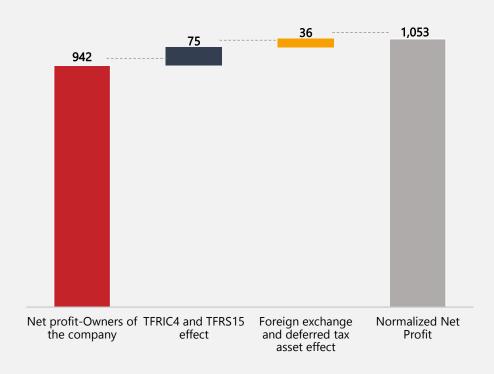
Normalized Net Profit (NNP) increased both QoQ and YoY due to Better Performance of GPSC's IPP







(THB Million)

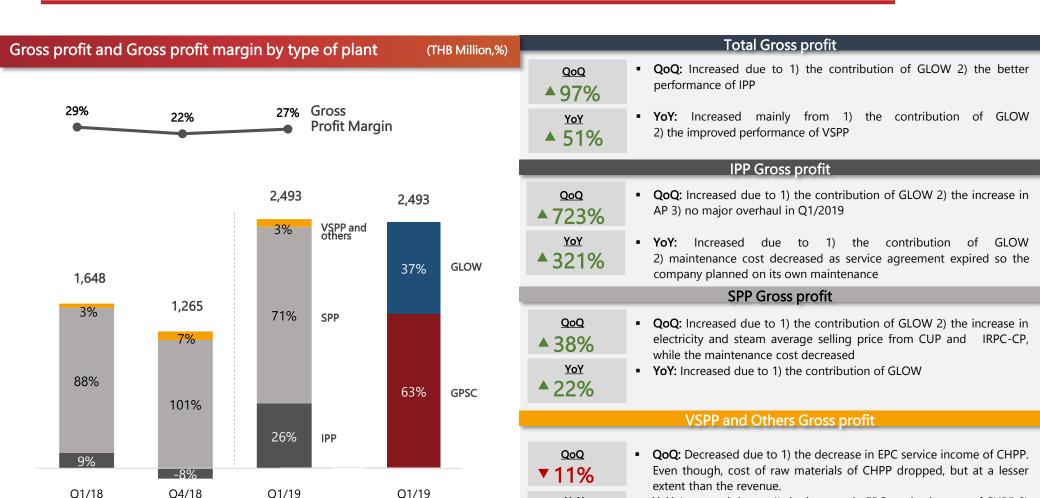


- Normalized net profit (NNP) is net profit adjusted to remove the effects of seasonality and unusual revenue or expenses, including TFRIC4 and TFRS 15 effect, foreign exchange and deferred tax asset effect.
- Normalized net profit (NNP) clearly reflects the company's true earnings from its normal operations



4 6%

Gross Profit and Gross Profit Margin has increased significantly from contribution of GLOW and IPP's Revenue



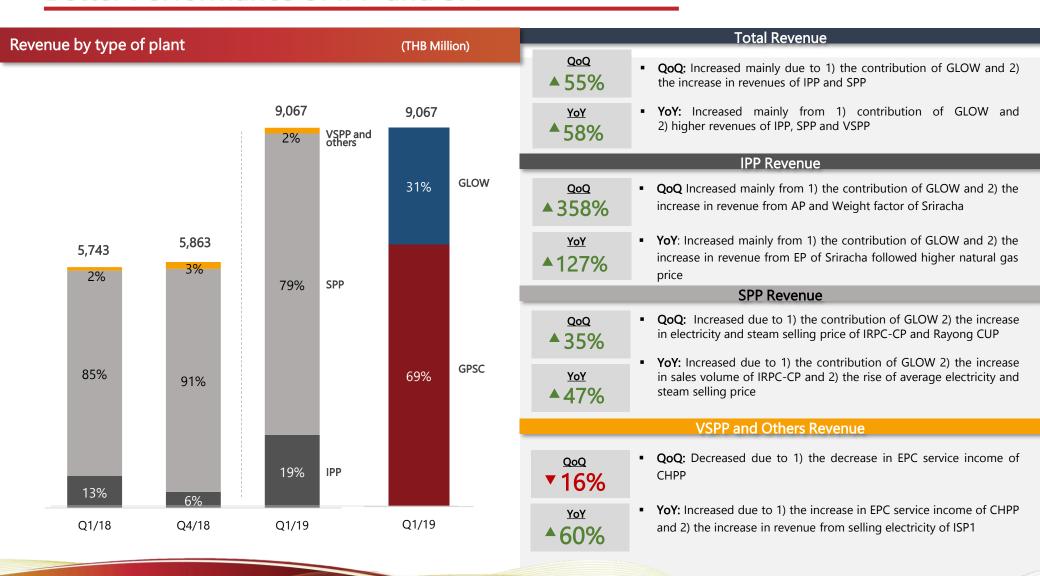
<u>%</u> 81%



• YoY: Increased due to 1) the increase in EPC service income of CHPP 2)

the increase in revenue from ISP1

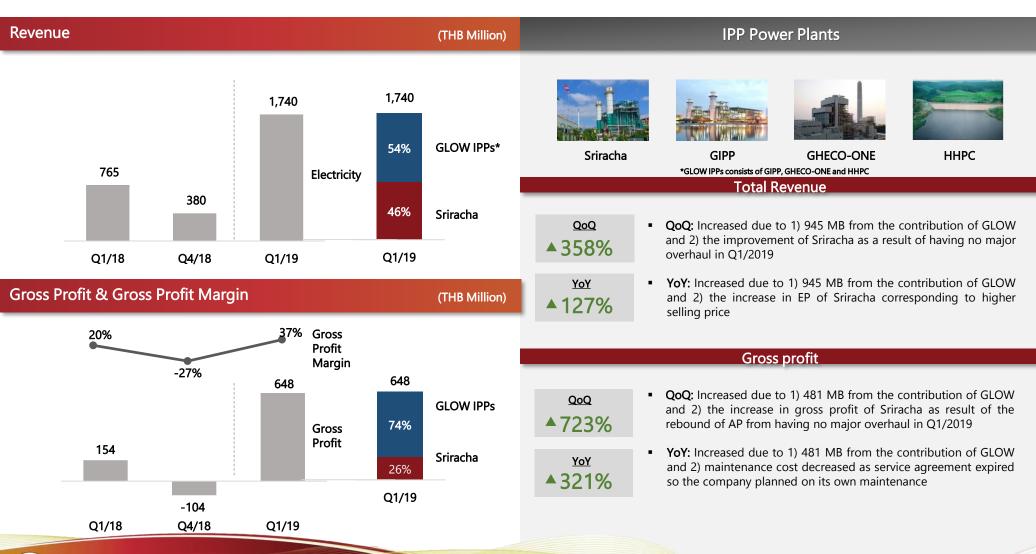
Total Revenue has increased due to The Contribution of GLOW and The Better Performance of IPP and SPP







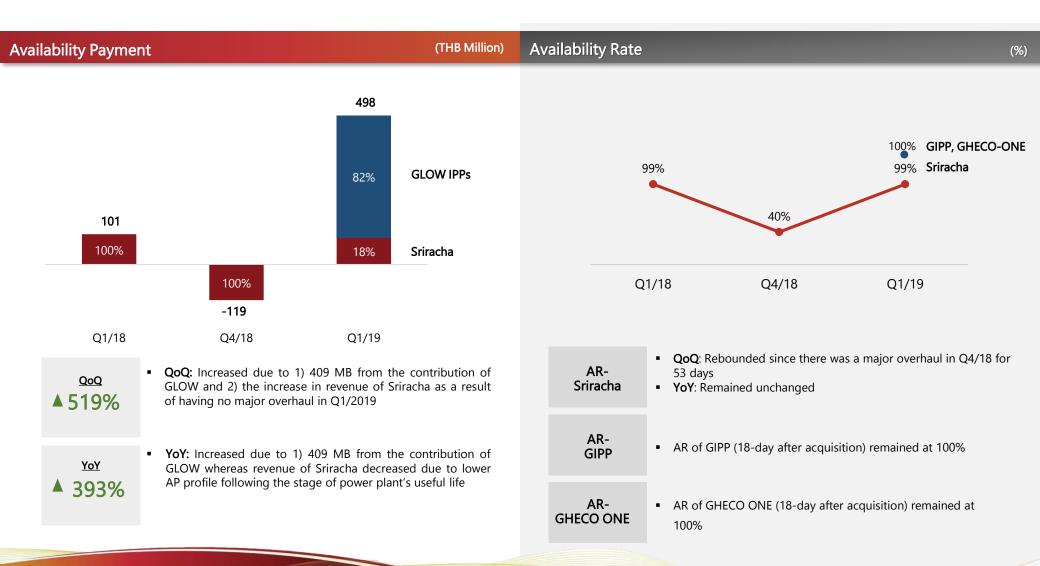
IPP Revenue: Increased By 358% QoQ and 127% YoY due to Better Performance of Sriracha and No Major Overhaul







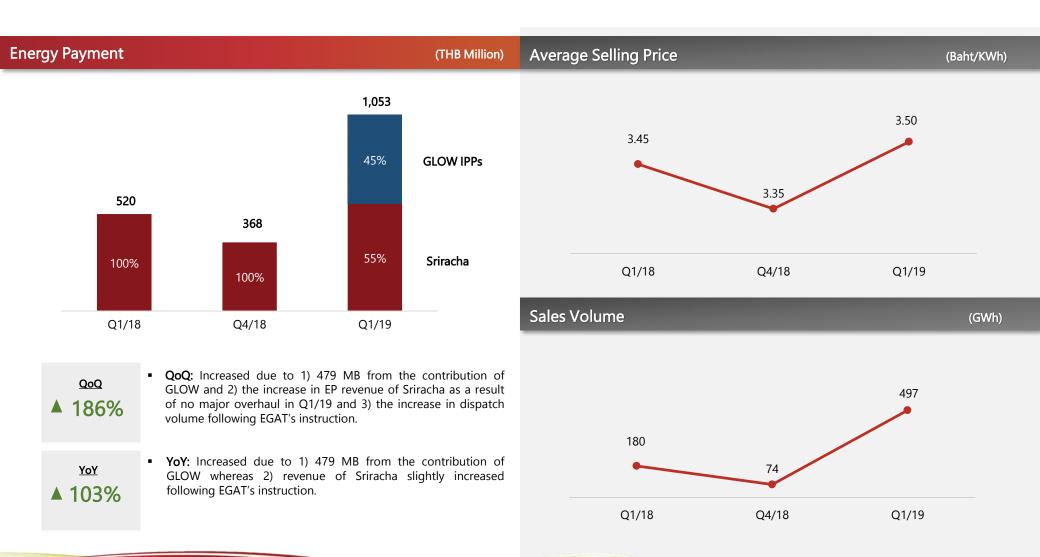
Availability Payment: Increased by 519% QoQ and 393% YoY







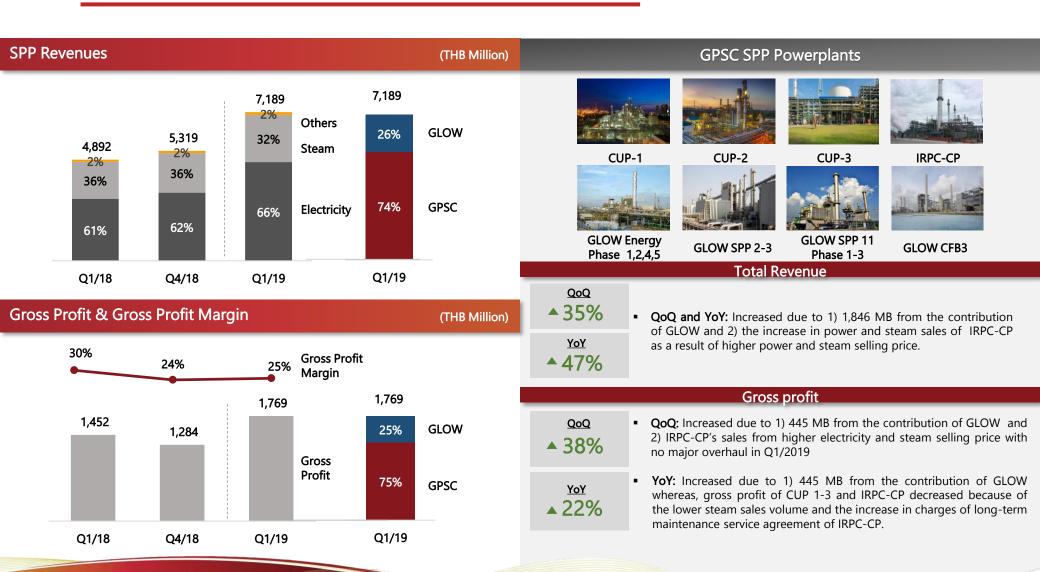
Energy Payment: Increased 186% QoQ and 103% YoY







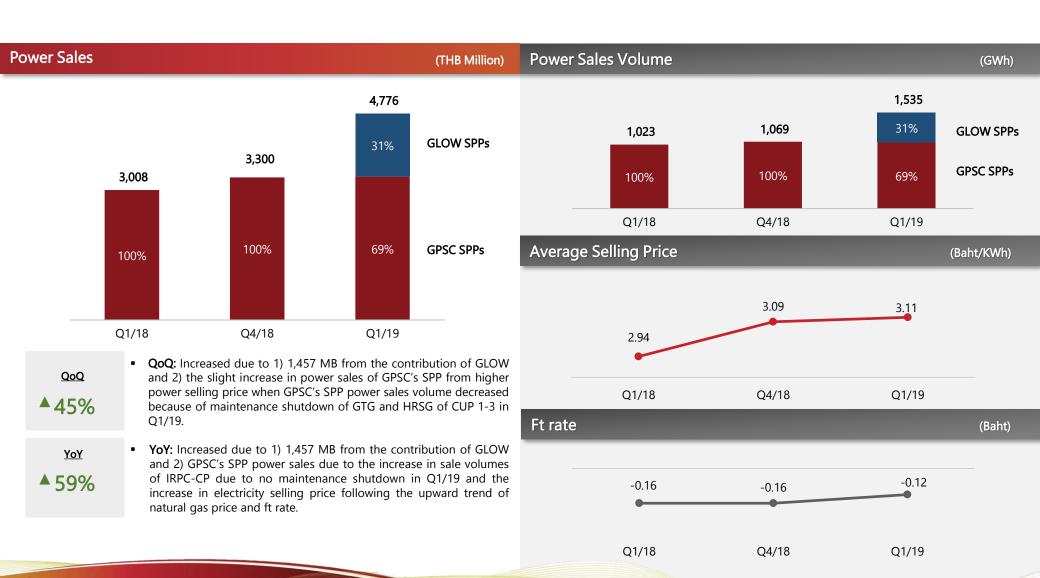
SPP Revenue: Increased 35% QoQ and 47% YoY due to Power and Steam Sales of IRPC-CP







SPP Power Sales: Increased 45% QoQ and 59% YoY





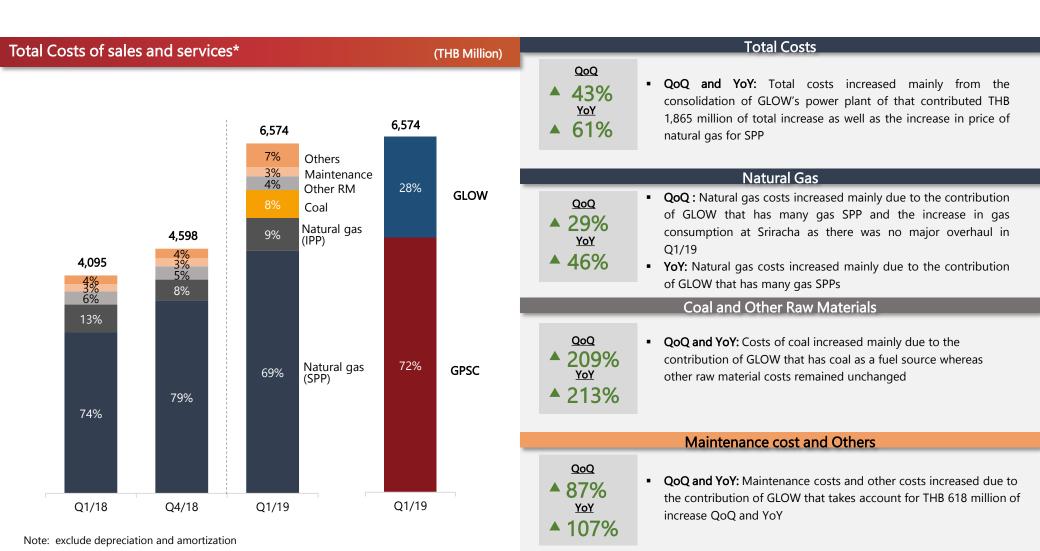


SPP Steam Sales: Increased 20% QoQ and 28% YoY



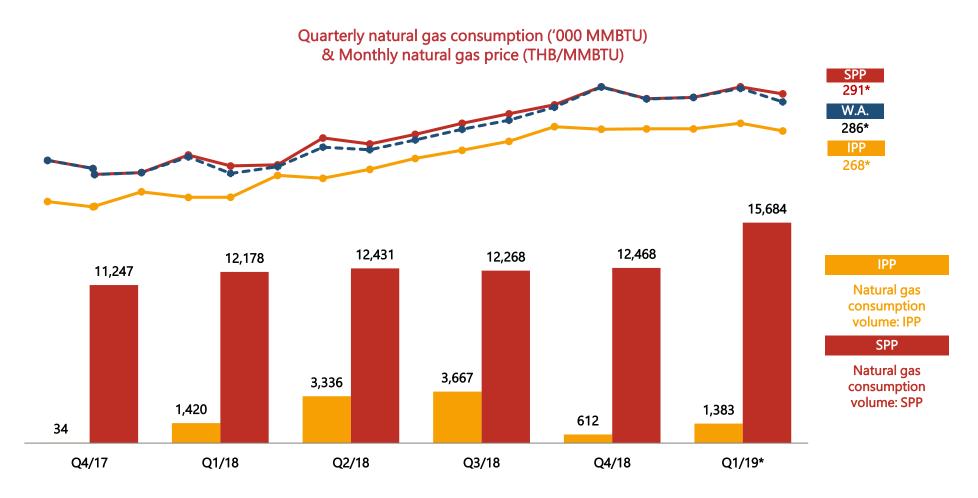


Total Cost Of Sales and Services: Increased in Line with Revenues





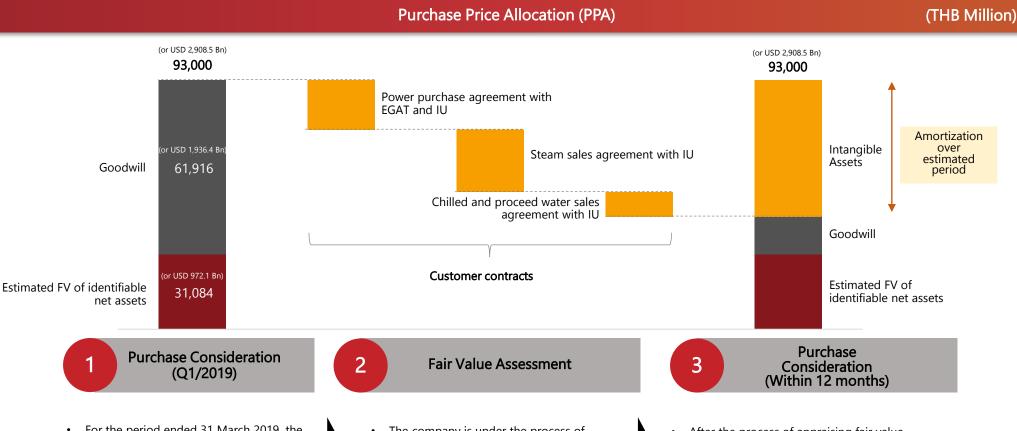
Natural Gas Consumption vs Price Trend



Remark: Latest price as of 31 March 2019 Note: *Excluded GLOW



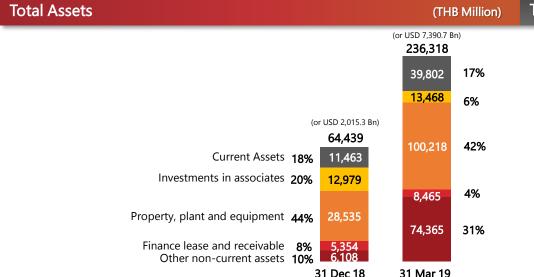
Purchase Price Allocation (PPA)



- For the period ended 31 March 2019, the company has booked identifiable net assets of 31,084 MB and rest of purchase consideration of 61,916 MB is booked as Goodwill.
- The company is under the process of determining fair value of the remaining acquired intangible assets and reviewing purchase price allocation (PPA) which is expected to be completed within 12 months.
- After the process of appraising fair value, remaining identifiable intangible asset will be booked at the determined fair value and the remaining amount will be recorded as Goodwill.
- Intangible assets will be <u>amortized over the</u> <u>estimated periods</u> and the remaining goodwill will be subjected to impartment test annually.



Financial Position of GPSC and Subsidiaries





267%

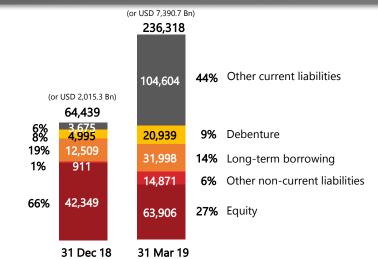
Total assets increased mainly from:

- Current assets increased by THB 28,339 million or 247%
- Property, Plant, and Equipment increased by THB 71,683 million
- Others non-current assets increased by THB 68,257 million due to an increase in goodwill from acquiring GLOW. GPSC is under the process of determining fair value of the acquired net assets and reviewing PPA, therefore, the estimated goodwill may be subject to further adjustments

Note: Use FX = 31.975 THB/USD; the w.a. selling rate announced by the BOT on 22 May 2019

Total Liabilities & Shareholders Equity

(THB Million)



Liabilities

▲ 680%

Total liabilities increased mainly from:

- Current liabilities rose by THB 100,929 million from short-term loan from financial institutions and shareholders at THB 93,000 million for acquisition of GLOW
- Long-term borrowing and debentures increased by THB 35,433 million
- Other non-current liabilities rose by THB 13,960 million due to consolidating financial statements with GLOW
- Interest-bearing debt amounted to THB 146,160 million, which comprised of THB 99,080 million of current portion or 68% and non-current amounting to THB 47,080 million or 32%

Equity

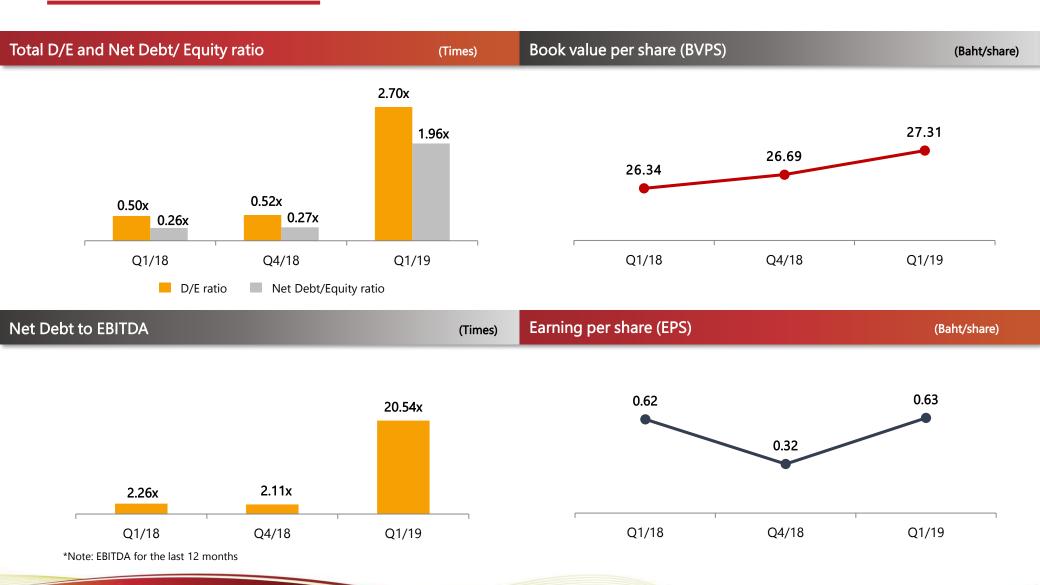
51%

Total Equity increased mainly from:

 Equity of the company and its subsidiaries increased by THB 21,557 million due to the increase in non-controlling interest from GLOW acquisition



Key Financial Ratio





THANK YOU

IR Contact

Pongsak Plaingam Pimploy Wichienprakarn Natsupa Prachuabmoh Suthathip Charoenkij

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Power Plants Portfolio of GPSC

Name	Туре	Total capacity (MW)	Equity Power capacity (MW)	Equity Operating Power capacity (MW)	Steam (T/H)	Industrial water (Cu.m/H)	Direct shareholding (%)	COD	Tenor
IN OPERATION									
IPP									
Huay Ho	IPP	152	102	102	-	-	GLOW (67%)	1999	30
Sriracha	IPP	700	700	700		80	GPSC (100%)	2000	25/2025
Glow IPP	IPP	713	677	677	-	-	GLOW (95%)	2003	25
RPCL	IPP	1,400	210	210	-	-	GPSC (15%)	2008	25/2033
GHECO-One	IPP	660	429	429	-	-	GLOW (65%)	2012	25
XPCL	IPP	1,285	321	-	-	-	GPSC (25%)	2019	29/2048
Total IPP		4,910	2,439	2,118	-	80			
SPP									
Glow Energy Phase 1	SPP	-	-	-	250	1,340	GLOW (100%)	1994	-
Glow Energy Phase 2	SPP	281	281	281	300	1,180	GLOW (100%)	1996	3
Glow Energy Phase 4	SPP	77	77	77	137	2,050	GLOW (100%)	2005	25
Glow Energy Phase 5	SPP	328	328	328	160	-	GLOW (100%)	2011	-
Glow SPP 2/ GLOW SPP 3	SPP	513	513	513	190	150	GLOW (100%)	1999	25
Glow SPP 11 Phase 1	SPP	120	120	120	-	360	GLOW (100%)	2000	25
Glow SPP 11 Phase 3	SPP	42	42	42	-	-	GLOW (100%)	2006	-
Glow SPP 11 Phase 2	SPP	110	110	110	-	212	GLOW (100%)	2012	25
CUP-1	SPP	226	226	226	890	720	GPSC (100%)	2006	10- 15/2021++
CUP-2	SPP	113	113	113	170	510	GPSC (100%)	2008	15/2022++
CUP-3	SPP	-	-	-	280	770	GPSC (100%)	2009	15/2023++
Glow Energy CFB 3	SPP	85	85	85	79	-	GLOW (100%)	2010	-
BIC-1	SPP	117	29.25	29.25	5	-	GPSC (25%)	2013	25/2038
BIC-2	SPP	117	29.25	29.25	5	-	GPSC (25%)	2017	25/2042
IRPC-CP Phase 1	SPP	45	23	23	86.7	-	GPSC (51%)	2015	25/2040
IRPC-CP Phase 2	SPP	195	99.4	99.4	66.3	-	GPSC (51%)	2017	25-27/2044



Power Plants Portfolio of GPSC

Name	Туре	Total capacity (MW)	Equity Power capacity (MW)	Equity Operating Power capacity (MW)	Steam (T/H)	Industrial water (Cu.m/H)	Direct shareholding (%)	COD	Tenor
IN OPERATION									
NNEG	SPP	125	38	38	9	-	GPSC (30%)	2016	25/2041
NNEG Expansion	SPP	60	18	-	3	-	GPSC (30%)	2020	25/2041
Rayong Expansion (CUP-3)	SPP	15	15	-	-	-	GPSC (100%)	2019	n/a
Rayong Expansion (CUP-4)	SPP	45	45	-	70	-	GPSC (100%)	2019	-
Total SPP		2,614	2,192	2,114	2,701	7,292			
VSPP and others									
CHPP	VSPP	5	5	5	-	-	GPSC (100%)	2008	30/2038
CHPP (Solar)	VSPP	5	5	5	-	-	GPSC (100%)	2016	2041
Glow Energy Solar Plant	VSPP	1.55	1.55	1.55	-	-	GLOW (100%)	2012	20-25
TSR (SSE1)	VSPP	80	32	32	-	-	GPSC (40%)	2013	25/2038
Glow Energy Solar PV Rooftop	VSPP	0.87	0.87	0.87	-	-	GLOW (100%)	2019	15
Glow Energy Solar PV Rooftop	VSPP	1	1	1	-	-	GLOW (100%)	2019	15
ISP1	Solar	20.8	20.59	20.59	-	-	GPSC (99%)	2017	20/2037
Solar Project	VSPP	39.5	39.5	39.5	-	-	GPSC (100%)	2014-15	2039/2040
NL1PC	Hydro	65	26	-	-	-	GPSC (40%)	2019	27/2044
Chonburi Clean Energy (CCE)	VSPP	8.6	2.87	-	-	-	GLOW (33%)	2019	20
Rayong WTE	VSPP	9.8	9.8	-	-	-	GPSC (100%)	2021	18/2039
Total VSPP and others		238	145	106	-	-			
ERU									
ERU	Cogen	250	250	-	175	-	GPSC (100%)	2023	25/2048
Total ERU		250	250	-	175	-			
Total capacity		8,012	5,026	4,338	2,876	7,372			



2019 Maintenance schedule: Sriracha and Rayong plants

								2019					
Site	Description	Duration		Q1			Q2			Q3		Q4	
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep O	ct Nov	Dec
	GTG11/HRSG-11	8 Days 1	1Y 8										
	GTG16/HRSG16	8 Days	9 1Y 16										
	GTG14/HRSG14	14 Days	17 HGPI	30									
CUP-1	Aux. Boiler.11	14 Days			15 3Y 28								
COII	GTG12/HRSG12	11 Days			7	1 Y 17							
	GTG11/ HRSG11	24 Days					15/5 MI	7/6					
	GTG13/HRSG13	11 Days							12 1Y	22			
	GTG15/HRSG15	14 Days									16 H	GPI 29	
	GTG21/HRSG21	11 Days			9 1Y 19								
CUP-2	GTG22/HRSG22	11 Days						12 1Y 22					
	Aux. Boiler.21	14 Days						1	3Y 14				
	Steam Turbine.21	-											
	Aux. Boiler.31	11 Days								4 1Y 14			
CUP-3	Aux. Boiler.33	11 Days									14	1Y 24	
	Aux. Boiler.32	11 Days									26/9 1Y 6	6/10	
	Steam Turbine.31	-											
	GT11/HRSG#1	200.1										17 CI	25
SRC	GT12/HRSG#2	200 hours (8.33 days)										17 CI	25
	Steam Turbine.10											17 Minor	2 5
	MI Major In: STG Minor Minor In 1MO 2 nd Majo 2MO 2 nd Majo	ng Site Path Inspection for Gas Turl spection for Gas Turbine aspection for Steam Turbine or Overhaul for Steam Turbi or Overhaul for Steam Turbi	22 days 15 days ne 23 days	3Y Three Y Other 1Y One Ye	ear Inspection HRSG Year Inspection HRSG ear Inspection NG Static ear Inspection NG Static d Outage		11 days 14 days Online Online Depending	g on physical damage	GTG CI CC HGPI MO I RCIE HRSG 1Y O	s Sriracha Site mbustion Inspection for Hot Gas Path Inspection Major Overhaul for Gas 1 Rotor and Casting Inspe- une Year Inspection HRSC hree Year Inspection HRSC	n for Gas Turbine Turbine ction Evaluation	8 days 26 days 33 days 49 days 8 days 33 days	
P	AB 1Y One Year 3Y Three Ye	r Inspection Aux. Boiler ear Inspection Aux. Boiler	11 days 13 days						Other 1Y On 5Y Fiv		Test	Online Online Depending on physic	cal damage

2019 Maintenance schedule: IRPC-CP

	Unit	2019							
Plant		Q1 (A)	Q2 (F)	Q3 (F)	Q4 (F)				
IRPC-CP	Block 1								
	CTG 21	4:58 hr.	1	1	1				
	HRSG 21	4:58 hr.	1	1	1				
	CTG 22	0:59 hr.	1	1	1				
	HRSG 22	0:59 hr.	1	1	1				
	STG 23	0:59 hr.							
	Block 2								
	CTG 31	0:44 hr.	1	1	1				
	HRSG 31	0:44 hr.	1	1	1				
	CTG 32	12:23 hr.	1	6	1				
	HRSG 32	12:23 hr.	1	6	1				
	STG 33			3					
	Aux. Boiler		7						

Notes

YIYearly Inspection5 daysYIYearly Inspection Aux Boiler15 days

1 = 1 Day (24 hours) 3 = 3 Days (72 hours) 6 = 6 Days (144 hours) 7 = 7 Days (168 hours)



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