



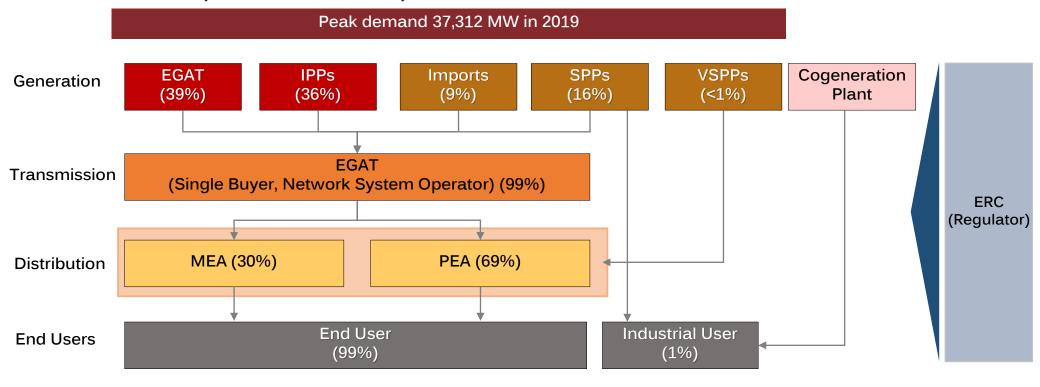
GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED

Corporate Presentation

THE INNOVATIVE POWER FLAGSHIP OF PTT GROUP

Current Power Industry Structure in Thailand

- EGAT and IPPs dominate electricity generation market, with the combined market share 75%.
- EGAT is the sole purchaser for almost all of the electricity generated, while VSPPs sell electricity directly to the MEA and PEA
- SPPs sell electricity to both EGAT and directly to industrial users



Definition **EGAT** Electricity Generating Authority of Thailand (State-owned entity) IPP **Independent Power Producers** SPP **Small Power Producers VSPP** Very Small Power Producers Source: EGAT and GPSC Metropolitan Electricity Authority (State-owned entity) MFA PEA Provincial Electricity Authority (State-owned entity) **Energy Regulatory Commission** ERC

Power Plant Definition and Revenue Structure

IPP

Independent Power Producer (IPP):

- A large power producer who has entered into the Power Purchase Agreement (PPA) with contracted capacity more than 90 MW
- IPPs are obliged to sell their entire output to EGAT

Availability Fuel **Payment Payment** Availability % **Energy cost** regarding **Availability** % Dispatch Payment to EGAT Rate (APR)

SPP

Small Power Producer (SPP) / Cogeneration (Cogen):

• A small power producer who sell their electricity to EGAT* and sell their electricity and utilities (e.g. steam, industrial water, chilled water) to Industrial customers (IUs)

Contract Type:

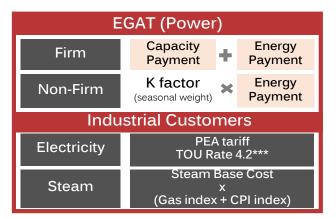
EGAT:

- Firm: Contract term > 5 years; CP + EP (+ FS)**
- Non-Firm: Contract term <= 5 Years; Only EP_{NE} IUs: Commercial contract as agreed.

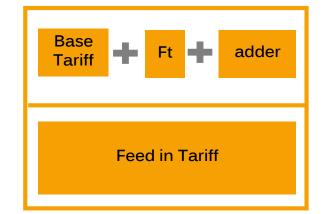
Very Small Power Producer (VSPP):

VSPP

- A very small generator whose power generating process is generated from renewable energy. cogeneration, biogas, biomass, waste heat, etc. with contracted capacity no more than 10 MW of electricity capacity
- VSPPs are able to sell power to the Distribution Utility Authority only



- * Under various type of contracts.
- ** Fuel Saving (FS)
- *** Reference rate with conditions:
- https://www.pea.co.th/Documents/Rate2015.pdf

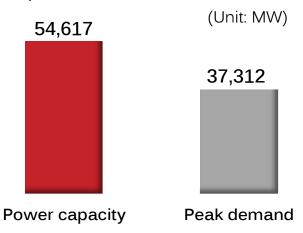




Summary of PDP 2018

Thailand Power Statistic

as of September 2019



Implication

- Consideration on new demand and reserve capacity by regions will create opportunities for new projects.
- This PDP revision is possible to adjust due to new AEDP&EEDP, study on smart grid study, energy storage, SPP power pool, private PPA are not finished, therefore the next revision will be launched recent year.

Source: EGAT, EPPO and GPSC



Demand

- System demand is not changed significantly.
- National demand (System demand plus Captive demand (IPS)) will be considered in PDP instead of only System demand as earlier.
- Supply will be considered by Regions.



Fuel mix

- Natural gas returns to be a major roles but Coal is limited.
- Renewable portion is increased especially in Private Solar however, most of all will be moved to mid-end PDP's period.
- Import power is not changed significantly.



Reserve Margin

- Change concept to determine safety margin of power supply, from Dependable capacity to Reliable capacity.
- Criteria of Reliable capacity shall be always higher than System demand



Comparison of Power Generation by Source of Fuel

(Unit: %)

Source of Fuel	PDP 2015 (in 2036)	New PDP 2018 (in 2037)
Natural Gas	37	53
Coal / Lignite	23	12
Hydro Power	15	9
Renewable	20	20
Nuclear	5	-
Others	0.1	0.06
Energy efficiency	-	6

Source: Ministry of Energy







Overview and Strategic Direction



Update of projects



Financial Activities and Plans



Financial Performance



P C

Petroleum Authority of Thailand PLC (PTT), GPSC's parent company : the largest energy conglomerate in Thailand

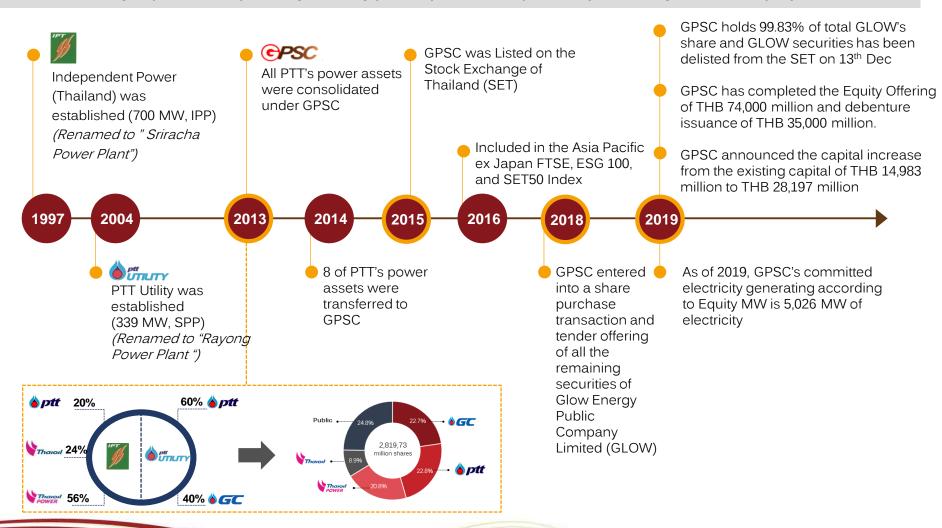
	Business Area	Company	PTT's Holding (%)	Activities
	5 E&P	PTTEP	65.29%	Exploration and production
Upstream	Coal	PTT Global Management	100%	Coal business
	LNG	PTT Global LNG PTT LNG	50% 100%	LNG value chain LNG receiving terminal
Intermediate	-	Gas Pipeline*	100%	Sole owner/operation of the transmission pipeline
	IFÖ I Gas	S&M*	100%	Supply & marketing of natural gas
		GSP*	100%	Extracting hydrocarbon contents in natural gas for petrochemical's feedstock
	Trading	Trading*	100%	Import/Export/Out-out trading of petroleum and petrochemical products
Downstream	Oil Marketing	PTTOR**	100%	Retail service stations and commercial marketing
	Petrochemical & Refining	PTTGC TOP IRPC	48.18% 48.03% 48.05%	Petrochemical flagship Refinery flagship Integrated refinery & petrochemical
Technology & Engineering	Power	EPSC	22.81%	Power flagship New S-Curve business of PTT group



Note: *Businesses directly operated by PTT PLC **Transferred asset to PTTOR on July 1, 2018 Source: PTT's Investor Update May 2019

GPSC's History & Key Milestones

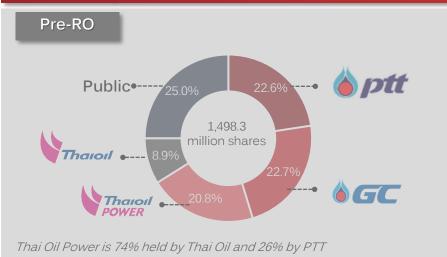
GPSC was founded in 2013 to be "the Power Flagship of PTT Group". Since its inception, GPSC has proved its strong expertise in operating existing power plants, and prudently investing in the new projects.

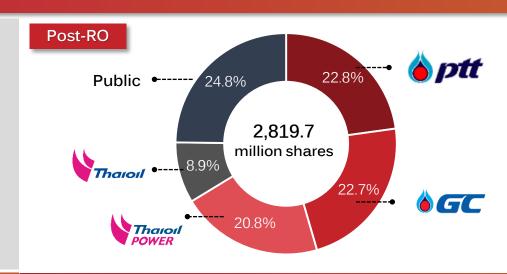




GPSC Innovative Power Company at a Glance

Shareholding Structure





Company Information

Head Office	555/2 Energy Complex Building B, 5th Floor, Vibhvadi-Rangsit Road, Chatuchak, Bangkok, Thailand
Business Type	Energy & Utilities
Registered Capital	THB 28,197 million
(Paid-up)	(USD 929.2 million)
Market Cap	THB 238,264.65 million
(As of 25 Dec 2019)	(USD 7,852.6 million)





STANDARD &POOR'S

BBB-

Note: Use FX = 30.346 THB/USD; the w.a. selling rate announced by the BOT on 9 Dec 2019

In 2019, Total Equity Capacity¹

Electricity 5,026 MWe







Steam 2,876 T/H







GPSC Customers' Profile





52% Industrial Users



47% EGAT



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



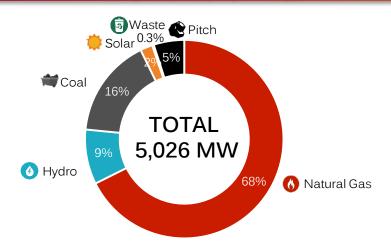
1% Others

Q3/2019 Revenue by Customers



GPSC's Business Portfolio by Fuel and Plant Type

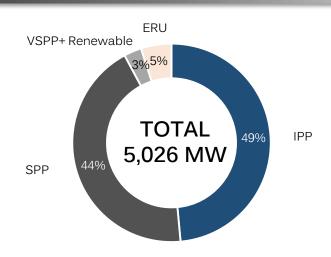
Equity Capacity by fuel types



Energy Type	Ins	talled M	100	Equity MW				
Energy Type	Total capacity	%	In operation	Total capacity	%	In operation		
Natural gas	5,047	63.00%	4,987	3,399	67.64%	3,381		
(i) Hydro	1,502	18.75%	1,502	449	8.94%	449		
Coal	1,045	13.04%	1,045	814	16.20%	814		
Solar	149	1.86%	109	101	2.00%	61		
Waste	18	0.23%	9	13	0.25%	3		
Pitch	250	3.12%	-	250	4.97%	-		
Total	8,011	100%	7,652	5,026	100%	4,708		

Note: Equity capacity includes 100% stake in GLOW, GRP and ERU GPSC Portfolio as of end-2019

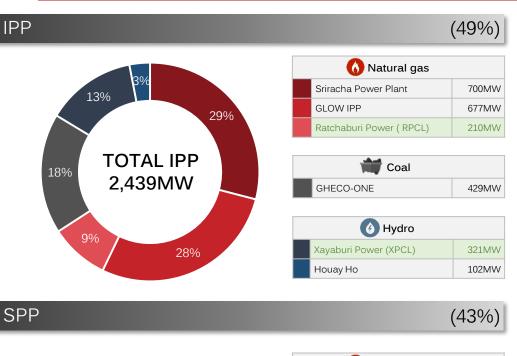
Equity Capacity	by Plant Type
------------------------	---------------



Energy Type		Ins	talled M	IW	Equity MW			
		Total capacity	%	In operation	Total capacity	%	In operation	
	IPP	4,910	61.29%	4,910	2,440	48.54%	2,440	
	SPP	2,614	32.63%	2,554	2,192	43.61%	2,174	
	VSPP + Renewable	237	2.96%	188	144	2.87%	94	
	ERU	250	3.12%	-	250	4.97%	-	
	Total	8,011	100%	7,652	5,026	100%	4,708	



GPSC's Business Portfolio by Plant Type



53%

	Glow Co-Generation	1,171MW				
	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				
Coal						
	Glow Co-Generation	385MW				

VSPP and Renewable (3%)🕻 Solar Global Renewable Power (GRP) 39.5MW Thai Solar Renewable TSR (SSE1) 32MW Ichinoseki Solar Power (ISP1) 21MW Combined Heat and Power 5MW Producing (CHPP Solar) Glow Energy Solar PV Rooftop 2MW Glow Energy Solar Plant 1MW 18% **TOTAL VSPP** Hydro 145MW Nam Lik 1 Power (NL1PC) 26MW 1% 1% Natural gas CHPP 5MW **Waste** Rayong WTE 10W Chonburi Clean Energy (CCE)



ERU

Pitch Thaioil 250MW

GPSC Associates and Joint Ventures

Note: Equity capacity includes 100% stake in GLOW, GRP and ERU GPSC Portfolio as of end-2019



18%

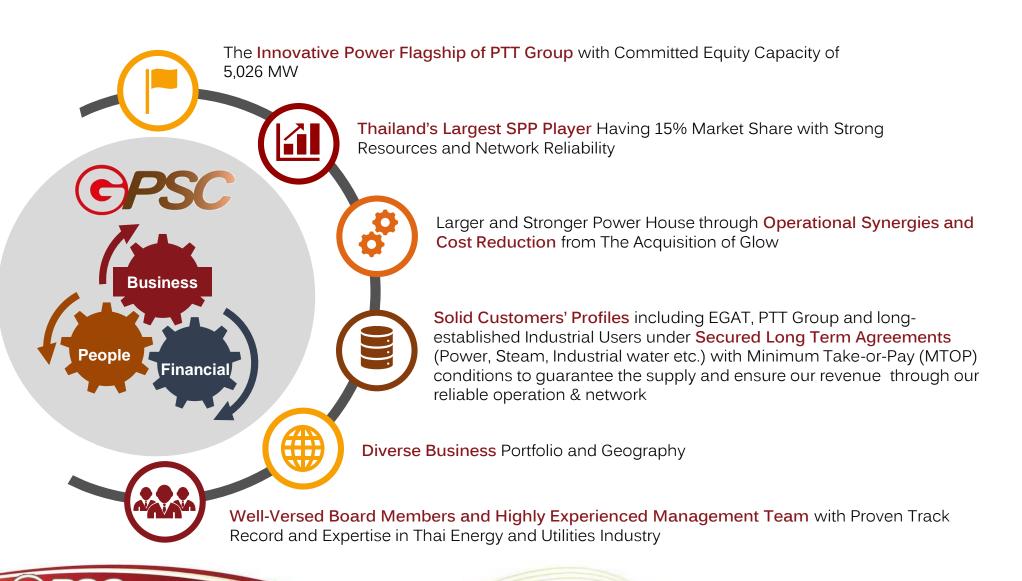
16%

TOTAL SPP 2,192MW

3MW

(5%)

Investment Highlights



GPSC Electricity Growth Pipeline





4,766 MW

Equity Capacity



5,026 MW **Equity Capacity**





ERU +250MW

SELECLTIVE GROWTH

Growth along with **PTT Group**

GLOW SPP Replacement

Conventional Energy (Thailand and International)

> Renewable Energy (Solar and Wind)

> > **Target**

2020 - 2025

4,708 MW **Equity Capacity**

Inorganic Growth



Note: Base on 100% in GLOW

COD of projects



XPCL +321MW NL1PC +26MW



CUP 4 +45MW



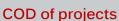
CUP 3 Expansion GWTCCE +2.8MW

2020

Inorganic Growth



+39.5MW





Expansion+18MW

Rayong WTE +10MW

4,776 MW

Equity Capacity

COD of projects

2019

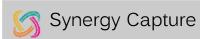
2021

2023



Strategic Direction and Growth Strategy 3 Pillars





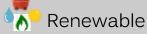


Corporate & Business Infrastructure

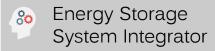




Domestic and International









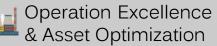


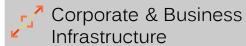
S-CURVE

Strategic Direction and Growth Strategy Synergy & Integration









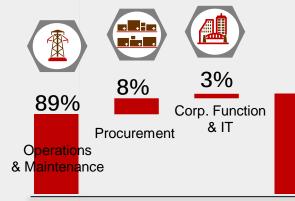
Synergy and Integration Implementation



Working as one team to deliver synergy



Recurring EBITDA synergy value based on current portfolio



THB+1.6 bn per year

Ramp up with full EBITDA¹ contribution by 2024 (USD 131.8 mm)

THB - 4.0 bn

One-time

initial investment

2019 endorse selected initiatives to lock-in value



Immediate benefits from Power and Steam Integration

First e-auction conducted to secure cheaper coal prices

Many contracts renegotiated and signed on spend baseline

Etc.



Strategic Direction and Growth Strategy Selective Growth

Sustainability Strategy & Commitment



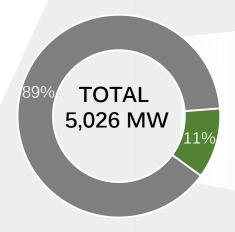
- To be listed in DJSI by 2022
- Increasing renewable energy up to 30% of GPSC's installed capacity



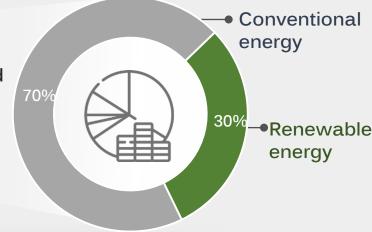


Domestic and International

Renewable



Way forward to Sustainable growth



Committed Equity Capacity 2019-2023



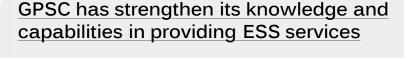
Seeking more international growth opportunities



Strategic Direction and Growth Strategy



S-CURVE





EXPLORE NEW S-CURVE BUSINESS FROM ESS

2019 Onwards





GPSC AS A SYSTEM

INTEGRATOR



SEEKING NEW MARKET AND **CUSTOMERS THROUGH PILOT PROJECTS**

2019









Market and Technology Intelligence în Digital Energy



Smart Energy Management (Phase II: Q2/2020)

- ✓ 1.2 MW Renewable Energy (Solar Roof + Floating)
- ✓ 1.2 MWh ESS for backup & renewable optimization, and zero-Import Building
- ✓ P2P Trading using Block-chain





Battery Business



GPSC Energy Storage System Projects Information and Status:

Туре	Customer	Capacity	Status
Residential	Chiang Mai U	10kW/17kWh	
L Industrial	GCL	625kW/625kWh with 2MWp solar	
占 Industrial	GC	250kW/1.5MWh	-
Mart City	VISTEC	1MW/1MWh	=

Complete Contructing







Overview and Strategic Direction



Update of projects



Financial Activities and Plans

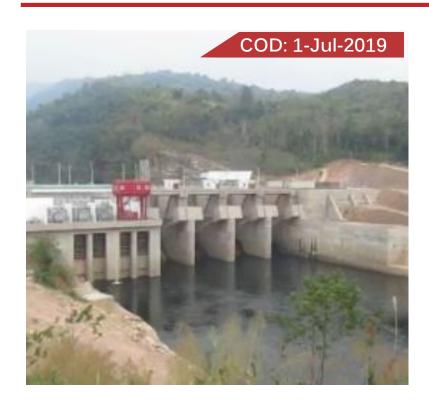


Financial Performance



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 date)

GPSC holds

40%

Of total share



Xayaburi Power Company Limited (XPCL)





PROJECT SUMMARY

TYPE Run-of-River Hydropower Plant LOCATION ELECTRICITY (MW) 1,285

Lao PDR



• EGAT (1,220 MW) • Electricite Du Laos (EDL) (60 MW)

GPSC holds

25%

Of total share



CENTRAL UTILITY PLANT 4 (PSC): CUP4 (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's Operating Asset

100%



Chonburi Clean Energy (CCE)





PROJECT SUMMARY

TYPE ELECTRICITY (MW) Industrial Waste (T/day)

Waste

8.6

270

LOCATION

CUSTOMER

WHA CIE



• Provincial Electricity Authority (PEA)



GLOW holds

33%

Of total share



Nava Nakorn Electricity Generation (NNEG) Expansion Project





PROJECT SUMMARY

TYPE

ELECTRICITY (MW)

STEAM (T/h)

Gas-fired Cogeneration

Expansion 60

10

Total

185

LOCATION

CUSTOMER

Nava Nakorn **Industrial Promotion** Zone, Pathumthani



Industrial



• EGAT (SPP Firm 90 MW for 25 years)



GPSC holds

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.



Rayong Waste to Energy **PSC** (WTE)





PROJECT SUMMARY

ELECTRICITY (MW) TYPE

RDF (T/day)





Waste

300

LOCATION

CUSTOMER

Rayong





• Provincial Electricity Authority (PEA)



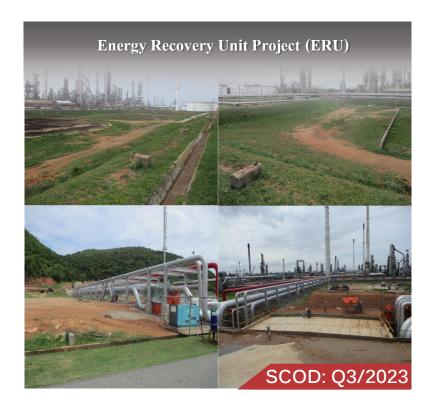
GPSC holds

100% Of total share

PROJECT UPDATE

- The RDF Project construction has been completed since 2018 while the RDF Power Plant Project construction began on April 2019.
- The project is expected to COD in Q2/2021.

Energy Recovery Unit Project (ERU)



PROJECT SUMMARY

ERU Project is a thermal power plant project that produces electricity and steam by using Petroleum Pitch obtained from RHCU (CFP Project) to be sent back for use in the CFP project, located in Thai Oil Refinery

TYPE

ELECTRICITY (MW)

STEAM (T/h)

Pitch

250

175

And by products such as Sulfuric acid, Condensate Water

LOCATION

CUSTOMER

Thai Oil Refinery, Sri Racha, Chonburi



 Thai Oil Public Company Limited

With 25-year contracts of 200 MW and 175 T/h of Steam from Closing Date

GPSC holds

PROJECT UPDATE

100%

Of total share in ERU co.

- Engineering design work: P&ID Review
- Construction work: Site preparation work, demolishing old equipment and temporary fence
- Purchasing machinery and equipment: Bid Evaluation / PO / P & ID
- Project progress as planned









Overview and Strategic Direction



Update of projects

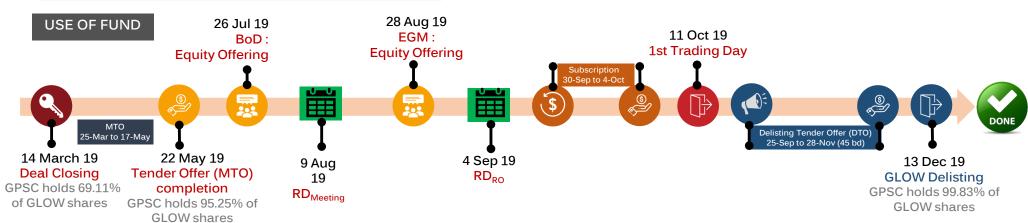


Financial Activities and Plans



Financial Performance

2019 Key activities highlight



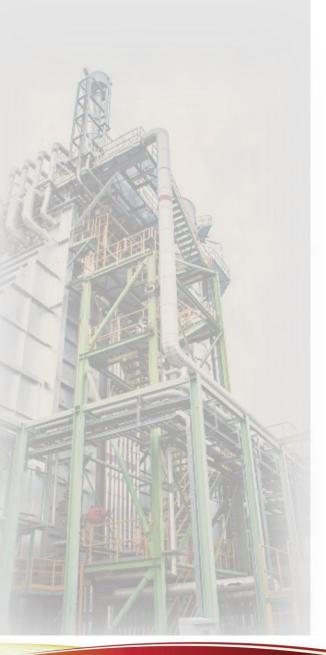
SOURCE OF FUND AND DELEVERAGING PLAN FOR FUTURE GROWTH THB 134.5 Bn (USD 4.4 Bn) THB 134.5 Bn Achieve as required Loan from PTT and GC Equity 35 Bn 74 Bn Completion in Oct-2019 Optimize Free-float Bridge loan from Completion in Nov-Debenture Financial 35 Bn 2019 Institutions 99.5 Bn Will be completed by Q1/2020 GPSC bridging loan Deleveraging plan Target Net D/E: 1X Net D/E: 3.76X

GPSC's Prudent Financial Policy

- 1 Net Debt to Equity ≤ 1.0x
- 2 Net Debt to EBITDA ≤ 4.0x
- Dividend Policy:
 Minimum dividend
 at the rate of not less than
 30 percent of the net profit

according to the financial statements of the Company after the deduction of tax, reserved funds as required by law (with additional conditions)







Overview and Strategic Direction



Update of projects



Financial Activities and Plans



Financial Performance

Key Financial Highlights Q3/2019

Key financial highlights







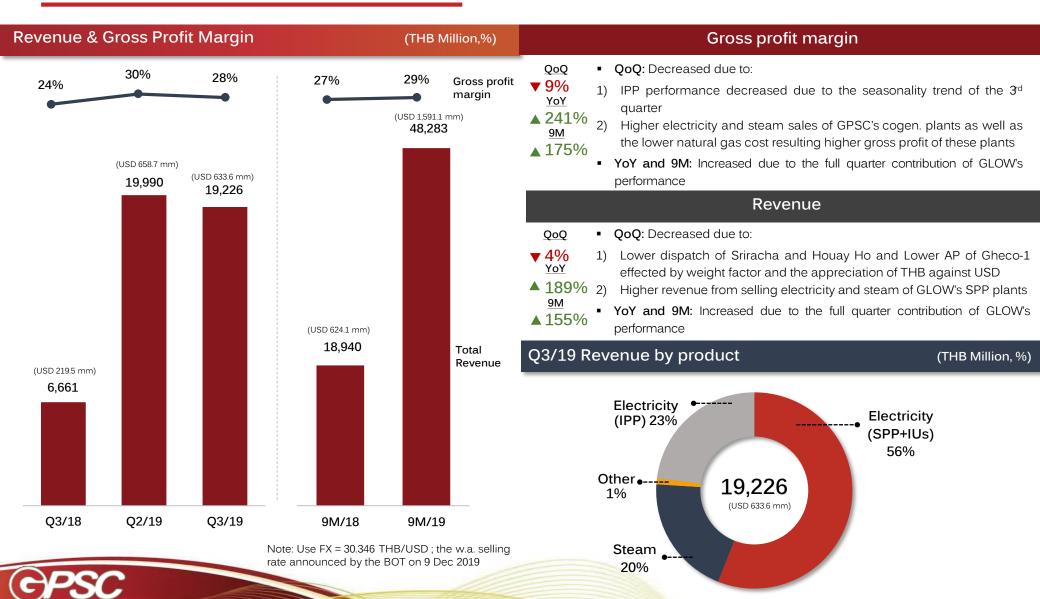


The stable performance is mainly due to:

- ✓ GPSC has completed MTO on May 22, 2019 and can recognize a net profit of 95.25% thereafter.
- ✓ Independent Power Producer's (IPP) performance decreased due to the seasonality trend of the third quarter of every year, resulting in lower selling price and sales volume.
- ✓ The finance expense increased resulting from the burden of interest expense from short-term loans paid for the tender offer process in May 2019.

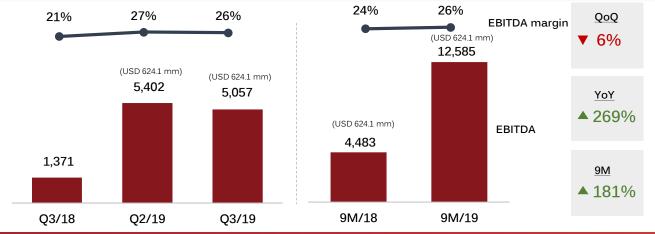


Q3/2019 Financial Performance Summary (1/2)



Q3/2019 Financial Performance Summary (2/2)

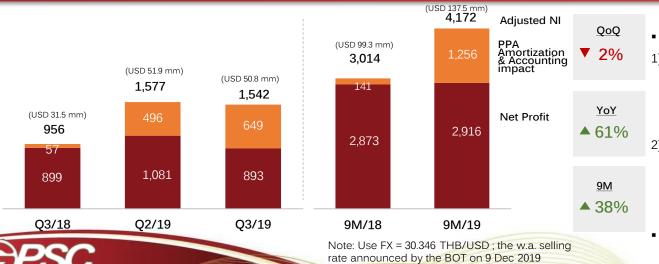




- QoQ: Decreased due to:
- IPP performance decreased due to the seasonality trend of the 3rd quarter
- 2) Higher electricity and steam sales of GPSC's cogen. plants as well as the lower natural gas cost resulting higher gross profit of these plants
- 3) VSPP has lower revenue from ISP1 and CHPP seasonally
- YoY and 9M: Increased due to the full quarter contribution of GLOW's performance

Net Profit and Adjusted Net Income

(THB Million)

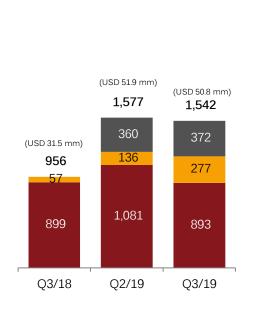


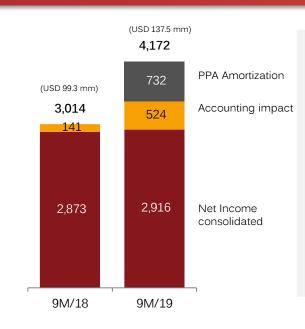
- QoQ: Decreased due to:
- IPP performance decreased due to the seasonality trend of the 3rd quarter. Main reason from reduction of weight factor of Gheco-1, resulting in a decreased in AP and lower dispatch volume of Houay-Ho as EGAT instruction.
- Higher interest expense from the tender offer of GLOW's shares in May 2019 and increasing in Front End Fee Amortization from the adjustment of ST loan repayment plan from RO proceeds in October 2019
- YoY and 9M: Increased due to the full quarter contribution of GLOW's performance

Operating results: Adjusted Net Income

Net Profit and Adjusted Net Income

(THB Million)





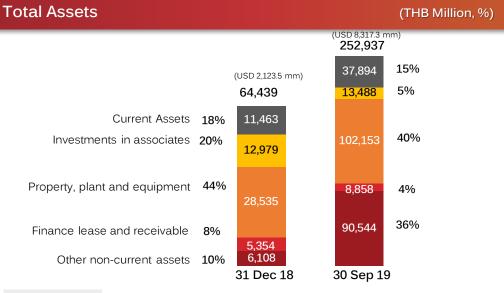
Adjusted Net Income, the net profit attribute to the company adjusted to *reflect the company's true earnings from its normal operations* which excludes:

- The fair value of intangible asset from the acquisition of GLOW (PPA Amortization)
- The effects of accounting standards including:
 - Revenue from contracts with customers (TFRS 15)
 - Determining whether an arrangement contains a lease (TFRIC 4)
 - Foreign exchange and deferred tax asset effect

Adjusted Net Income	Q3/18	Q2/19	Q3/19	Cha +/(-		9M/18	9M/19	Change +/(-)
(Unit: Million Baht)				QoQ	YoY			
Net Profit for the Company	899	1,081	893	(17%)	(1%)	2,873	2,916	1%
Re-Add: Amortization of assets acquired from the acquisition of GLOW	0	360	372	3%	n/a	0	732	n/a
Re-Add: Accounting impact	57	136	277	103%	386%	141	524	272%
- TFRIC 4 and TFRS 15 effect	48	278	327	18%	581%	128	679	430%
- Foreign exchange and deferred tax asset effect	9	(142)	(50)	65%	(656%)	13	(155)	(1,292%)
Adjusted Net Income	956	1,577	1,542	(2%)	61%	3,014	4,172	38%



Financial Position of GPSC and Subsidiaries



Assets

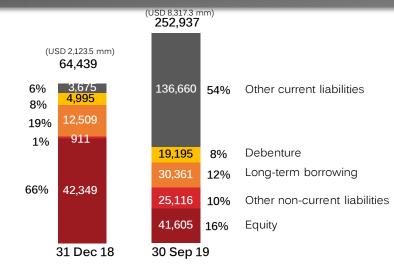
293%

Total assets increased mainly from:

- Other non-current assets increased by Baht 84,436 million mainly due to the increase of goodwill from the acquisition of GLOW and the intangible assets for the right in the Power Purchase Agreement from the acquisition of GLOW.
- Property, plant and equipment increased by Baht 73,618
 million mainly due to the increase of book value in property,
 plant and equipment of GLOW and recording the fair value of
 property, plant and equipment from the purchase of GLOW.
- Finance lease and receivable net: increased by Baht 3,504
 million in which GLOW IPP financial lease and receivable, and
 the recording the fair value of financial lease from the
 acquisition of GLOW.

Total Liabilities & Shareholders Equity

(THB Million, %)



Liabilities

▲ 857%

Total liabilities increased mainly from:

- Current liabilities increased mainly from an increase in shortterm loan from financial institution for the acquisition of GLOW.
- Other non-current liabilities increased mainly due to the increase in GLOW's other non-current liabilities and deferred tax liabilities from recording the fair value of net asset from the acquisition of GLOW.
- Long-term borrowing and debentures increased from GLOW's long-term borrowing and debenture.

Equity

▼ 36%

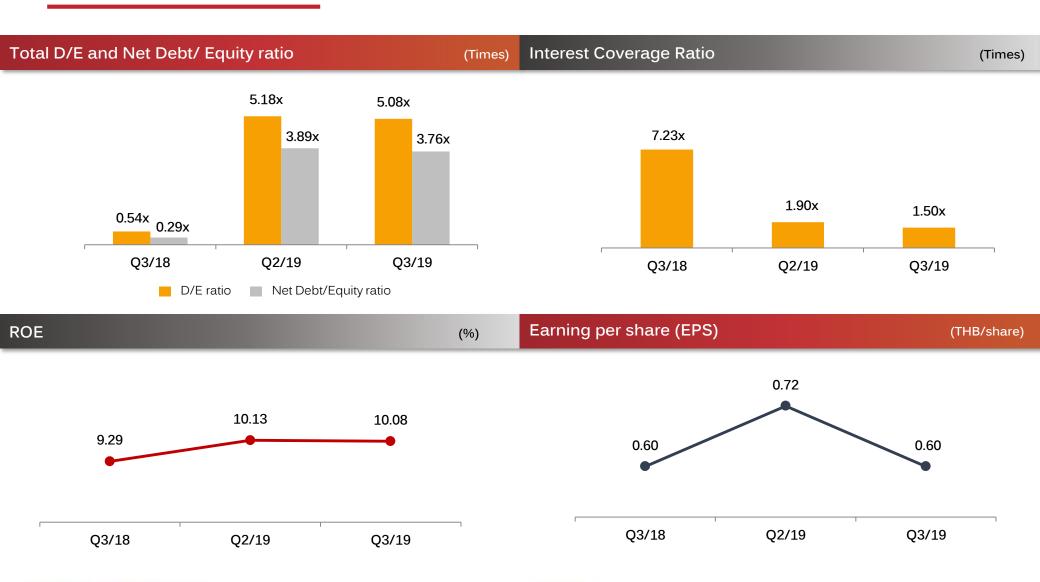
Total Equity decreased mainly from:

- The change in non-controlling interest and the difference from the change of investment proportion in subsidiaries resulted from the tender offer for acquisition of GLOW.
- The increase in retained earnings during the period.



Note: Use FX = 30.346 THB/USD; the w.a. selling rate announced by the BOT on 9 Dec 2019

Key Financial Ratio



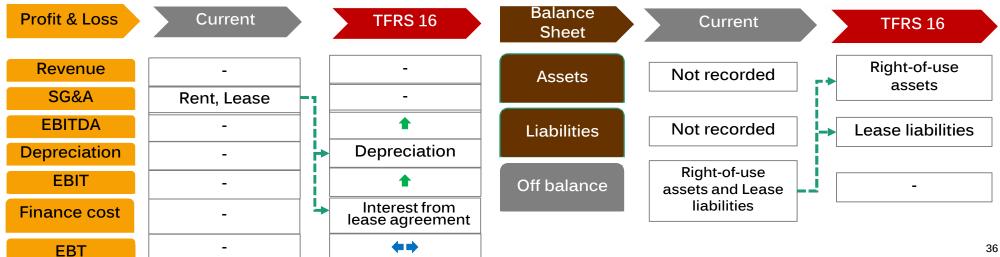


Accounting impacts in 2020

TFRS 9

Assets	As-Is GPSC Policy	Impacts on TFRS 9
1. Derivatives (e.g. IRS ,CCS , FW)	 Disclosed in the notes to the financial information 	Recorded at fair value
2. Other long-term investments (e.g. RPCL, 24M)	 Recorded at cost Gain or loss on sale of assets are presented in the statement of income 	 Recorded at fair value Gain or loss on sale of assets are not presented in the statement of income
3. Impairment of assets (e.g. receivables, loans)	Impairment from historical information	 Consider the future credit risk of the debtor which may cause impairment faster

TFRS 16 (Accounting for lessees)

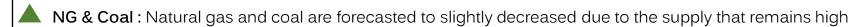


Outlook 2020

Economic Outlook

- Several ongoing global challenges will weigh on global and Thailand's economic slow down.
- To be seen whether the government will launch additional fiscal measures e.g. EEC to boost the economy next year.

Key assumption



Ft rate: Ft maintains in Jan-Apr 2020 and assumed to be slightly decreased in line with average national fuel prices

Performance

- Performance improvements:
 - o CUP-4 (COD on Sep'19) will improve contribution margin
 - o Xayaburi: 25% stakeholder (COD on Oct'19)
 - o CCE (COD on Nov'19)
 - o GRP expected to close all conditions precedent soon.
- Interest cost continue to reduce from:
 - \circ The deleveraging plan has been completed of RO and 1st lot of debenture issuance
 - o Outstanding debt decreases

Gheco-1:

- AP significant drops by 35% will impact to cash received
- Full year impact of the first BOI period end
- Unfavorable FX impact (slightly appreciation THB against USD)
- The dispatch of **HHPC** assumes to be lower than 2019
 - PPA amortized cost continued to impact P/L as scheduled amortization profile

Accounting impacts

 TFRS 9, TFRS 16: Accounting impact to the statement of financial position and comprehensive income statement

THANK YOU

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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	321	-	-	GPSC (25%)	2019	29/2048
Total IPP		4,910	2,439	2,439	-	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	15/2021++
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

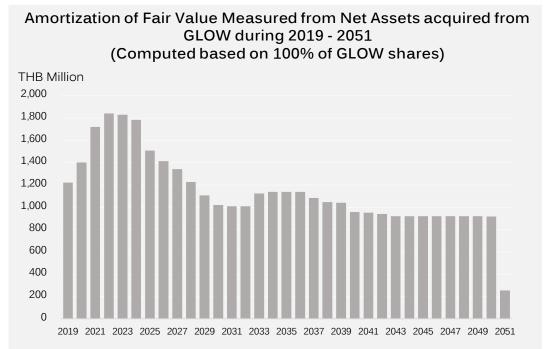
Name	Туре	Total capacity (MW)	Equity Power capacity (MW)	Equity Operating Power capacity (MW)	Steam (T/H)	Industrial water (Cu.m/H)	Direct shareholding (%)	COD	Tenor
IN OPERATION									
NNEG	SPP	125	38	38	9	-	GPSC (30%)	2016	25/2041
NNEG Expansion	SPP	60	18	-	3	-	GPSC (30%)	2020	25/2041
Rayong Expansion (CUP-3)	SPP	15	15	15	-	-	GPSC (100%)	2019	n/a
Rayong Expansion (CUP-4)	SPP	45	45	45	70	-	GPSC (100%)	2019	-
Total SPP		2,614	2,192	2,174	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
GRP	VSPP	39.5	39.5	-	-	-	GPSC (100%)	2014-15	2039/2040
NL1PC	Hydro	65	26	26	-	_	GPSC (40%)	2019	27/2044
Chonburi Clean Energy (CCE)	VSPP	8.6	2.87	2.87	-	-	GLOW (33%)	2019	20
Rayong WTE	VSPP	9.8	9.8	-	-	-	GPSC (100%)	2021	18/2039
Total VSPP and others		237	145	95	-	-			
ERU									
ERU	Cogen	250	250	-	175	-	GPSC (100%)	2023	25/2048
Total ERU		250	250	-	175	-			
Total capacity		8,011	5,026	4,708	2,876	7,372			



Note: Equity capacity includes 100% stake in GLOW, GRP and ERU GPSC Portfolio as of end-2019

Fair Value Measurement of Net Assets from the Acquisition of GLOW

Items	Book Value of GLOW (THB Million)	GLOW	Differential Value (THB Million)
Assets	107,655	155,500	47,845
Liabilities	(56,246)	(66,497)	(10,251)
Net Assets of GLOW at 14 March 2019	51,409	89,003	37,594 (USD 1,238 mm)
Non-Controlling interests at 30.89%		(32,092)	
Total Net Asset obtained GLOW at 69.11%		56,911 (USD 1,875 mm)	
Goodwill		36,090 (USD 1,189 mm)	
Proportion of acquisition cost 69.11%		93,001 (USD 3,064 mm)	



GPSC has completed the acquisition of 69.11% on 14 March 2019 at a total of THB 93,001 million, the company has measured the fair value of GLOW net assets as follow:

- The fair value uplift of THB 37,594 million from Purchase Price Allocation (PPA)
- The fair value recognition of net assets acquired from GLOW will be amortized yearly (based on the remaining period of the contract, 5 to 31 years).
- Goodwill will be subjected to an impairment test on a yearly basis.

Note: Use FX = 30.346 THB/USD; the w.a. selling rate announced by the BOT on 9 Dec 2019



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