



GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED

# **Corporate Presentation**

October 1st, 2019

THE INNOVATIVE POWER FLAGSHIP OF PTT GROUP

# P

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

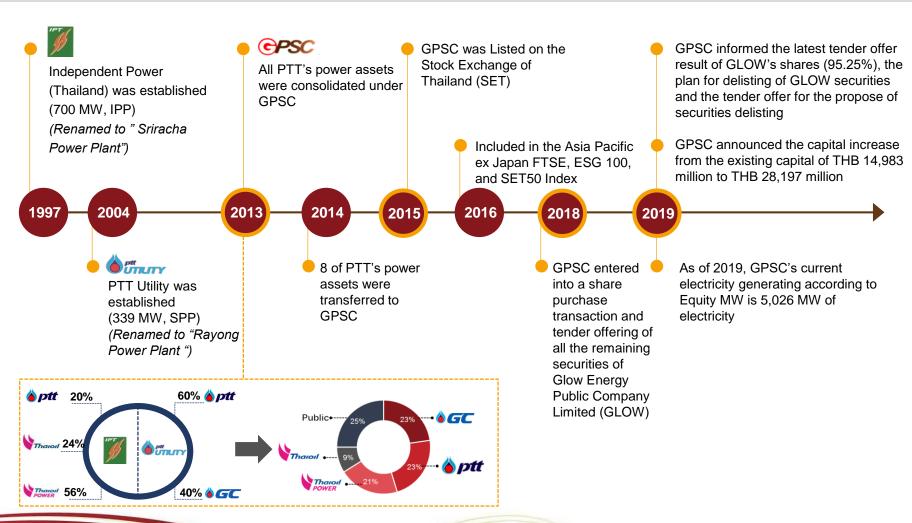
	<u></u>						
	Business Area	Company	PTT's Holding (%)	Activities			
	E&P	PTTEP	65.29%	Exploration and production			
Upstream	Coal	PTT Global Management	100%	Coal business			
	LNG	PTT Global LNG PTT LNG	50% 100%	LNG value chain LNG receiving terminal			
Intermediate		Gas Pipeline*	100%	Sole owner/operation of the transmission pipeline			
	ITÖ⊐l 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			
Downstream	Petrochemical & Refining	PTTGC TOP IRPC	48.18% 48.03% 48.05%	Petrochemical flagship Refinery flagship Integrated refinery & petrochemical			
Technology & Engineering	Power	<b>EPSC</b>	22.58%	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's VISION and MISSION**



# The Global Leading *Innovative and Sustainable*Power Company



- Create long-term shareholders' value with <u>profitable growth</u>
- **Deliver reliable energy** through operational excellence to customers
- Conduct business with <u>social and environmental</u> <u>responsibility</u>
- Seek <u>innovation in power and utility</u> efficiency management through energy storage technology



## **Well-versed Board of Directors**

## Our directors have the ideal mix of skills and experience to deliver meaningful growth at GPSC



#### **Supattanapong Punmeechaow**

 President & Chief Executive Officer / Director and Secretary to the Board of Directors / Member of the Risk Management Committee, PTT Global Chemical Public Company Limited



## Payungsak Chartsutipol

- Former Chairman, Board of Executive Directors, Krungthai Bank Public Company Limited
- Chairman, The Federation of Thai Industries



#### Kurujit Nakornthap

- Former Permanent Secretary, Ministry of Energy of Thailand
- Former Director and Chairman of the Board, Electricity Generating Authority of Thailand



#### Pailin Chuchottaworn

- Former President and CEO of PTT Public Company Limited
- Deputy Ministry of Transport



## Chaowalek Chayansupap

• Former Army Expertise, Royal Thai Army



#### Nicha Hiranburana Thuvatham

 Deputy Secretary-General to the Prime Minister for Administrative Affairs, Office of the Prime Minister



## Well-versed Board of Directors (Cont' d)



#### Wittawat Svasti-Xuto

- Chief Technology and Engineering Officer, PTT Public Company Limited
- Director, PTT Global Chemical Public Company Limited



#### **Wuttikorn Stithit**

Senior Executive Vice President,
 Gas Business Unit, PTT Public Company
 Limited



#### **Wirat Uanarumit**

 Chief Operating Officer, PTT Public Company Limited Secondment to Thai Oil Plc as Chief Executive Officer and the President



### **Peangpanor Boonklum**

 Senior Executive Vice President / Group General Counsel, Office of General Counsel, PTT Public Company Limited



## Kongkrapan Intarajang

 Chief Operation Officer – Upstream Petrochemical Business, PTT Global Chemical Public Company Limited



#### **Bandhit Thamprajamchit**

 Senior Executive Vice President, Refinery and Petrochemical and Acting Executive Vice President, Manufacturing Thai Oil Public Company Limited



## **Chawalit Tippawanich**

 Senior Executive Vice President PTT Public Company Limited



## Highly Experienced Management Team

## Proven Track Record and Expertise in Thai Energy and utilities Industry



Smornchai Khoonrak

**EVP** Operations

35 years in PTT Group Energy & utilities industry both onshore and offshore operation



Teinwan

EVP

Business Development and
Corporate Strategy

28 years in PTT Group Energy & Utilities industry



Chawalit Tippawanich

President & CEO

14 years in PTT Group 16 years in Energy & utilities industry



Sirimet Leepagorn

**EVP** Asset Management

32 years in PTT Group Energy & Utilities industry



Wanida Boonpiraks

**EVP**Corporate Finance and Accounting

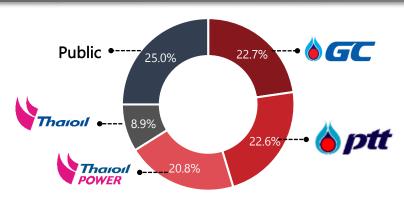
29 years in PTT Group Energy & utilities industry



- Several senior executives have long experience working within the PTT Group and have expertise in power generating business
- Rotation policy of key staff within the PTT Group helps foster closer linkage with key shareholders in the company
- Succession planning encourage talented employees and to ensure continuity of strategies
- PTT Group regular meetings drive synergies between the key subsidiaries of the Group

## **GPSC Innovative Power Company at a Glance**

## Shareholding Structure



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

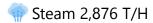
## **Company Information**

Head Office	555/2 Energy Complex Building B, 5th Floor, Vibhvadi-Rangsit Road, Chatuchak, Bangkok, Thailand		
Business Type	Energy & Utilities		
Registered Capital (Paid-up)	THB 28,197 million (THB 14,983 million) (USD 914.2 million; USD 485.7 million)		
Market Cap (As of 26 Sep 2019)	THB 105,255.63 million (USD 3,412.3 million)		

Note: Use FX = 30.846 THB/USD; the w.a. selling rate announced by the BOT on 15 Aug 2019

#### In 2019, Total Equity Capacity<sup>1</sup>

Flectricity 5,026 MWe





- Electricity 4,463 MW
  Steam 2,876 T/H
- ♦ Chilled Water 15,400 RT
- Industrial Water 7,372 Cu.m./H



Electricity 114 MW



Electricity 449 MW



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



2) Equity capacity includes ERU



## **GPSC Customers' Profile**





57% Industrial Users



40% EGAT



3% Others

Q2/2019 Revenue by Customers

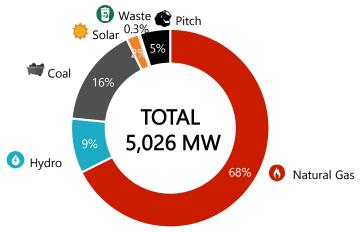
## LONG TERM OFF TAKE CONTRACTS

- ✓ 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

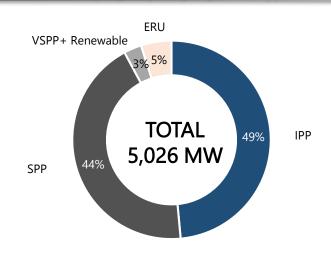
## **Equity Capacity by fuel types**



Energy Type	Installed MW			Equity MW		
	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%	-
Total	8,011	100%	6,233	5,026	100%	4,298

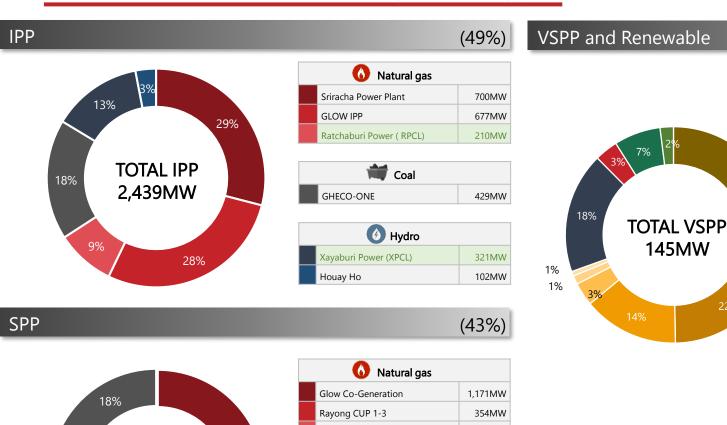
Note: Base on 100% in GLOW

## **Equity Capacity** by Plant Type

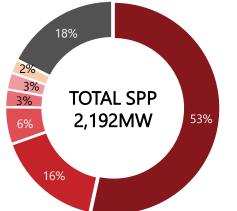


Energy Type	Installed MW			Equity MW		
Energy Type	Total capacity	%	In operation	Total capacity	%	In operation
IPP	4,910	61.29%	3,625	2,439	48.53%	2,118
SPP	2,614	32.63%	2,494	2,192	43.61%	2,114
VSPP + Renewable	237	2.96%	114	145	2.88%	66
ERU	250	3.12%	0	250	4.97%	0
Total	8,011	100%	6,233	5,026	100%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

## **GPSC's Business Portfolio by Plant Type**



VSPP and Renewable		(3%)
	🜞 Solar	
	Solar Project	39.5MW
	Thai Solar Renewable TSR (SSE1)	32MW
2%	Ichinoseki Solar Power (ISP1)	21MW
3% 7%  2%	Combined Heat and Power Producing (CHPP Solar)	5MW
27%	Glow Energy Solar PV Rooftop	2MW
	Glow Energy Solar Plant	1MW
TOTAL VSPP	4 Hydro	
145MW	Nam Lik 1 Power (NL1PC)	26MW
1% 1% 3%	Natural gas	
14%	СНРР	5MW
	Waste	
	Rayong WTE	10W
	Chonburi Clean Energy (CCE)	3MW



	Natural gas				
	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			



**ERU** 

Pitch				
TI	naioil	250MW		

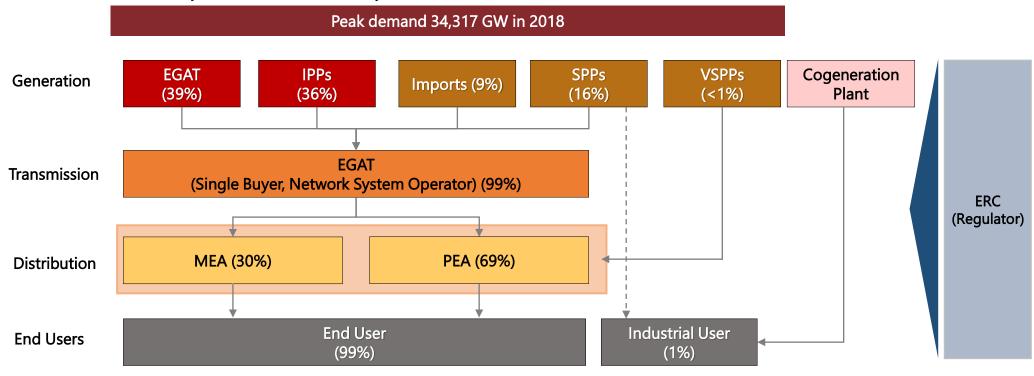


(5%)

120/1

## **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 Electricity Generating Authority of Thailand (State-owned entity) **EGAT Independent Power Producers** IPP SPP **Small Power Producers VSPP Very Small Power Producers** Source: EGAT and GPSC MEA Metropolitan Electricity Authority (State-owned entity) Provincial Electricity Authority (State-owned entity) PEA **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 to **Payment Rate EGAT** (APR)

## 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<sub>NE</sub>

IUs: Commercial contract as agreed.



### Very Small Power Producer (VSPP):

**VSPP** 

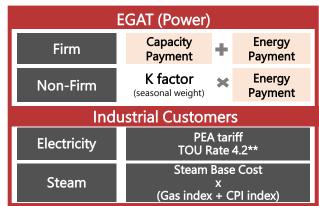
adder

- 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

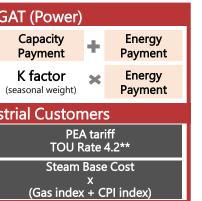
**Feed in Tariff** 

Base

**Tariff** 



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





# Q2 2019 KEY HIGHLIGHTS 'GROWING PROFIT WITH SUSTAINABILITY AND CONTROL'









## **SIGNIFICANT GROWTH**

- **GPSC** completed the acquisition of GLOW 69.11% on March 14. 2019, and completed **Mandatory Tender Offer from Glow** which ended on the 22<sup>nd</sup> May 2019 of **26.14% adding up** to a total of 95.25%
- Integration with GLOW will consist of 3 phases, the current phase focuses on launching all quick wins and preparing to launch all remaining synergy initiatives
- Coordination with PTT Group on Gas to Power product to diversify portfolio

## **PROFIT**

- 154% increase in EBITDA QoQ due to the first full quarter contribution of GLOW
- 30% of gross profit margin in Q2/2019 due to the first full quarter recognition of GLOW's power plant with better margins
- Value added from synergy

THB 1.6 bn ramp up with full EBITDA contribution by 2024

## **SUSTAINABILITY**

## **Interim Dividend** THB 0.50 per share

dividends for 1H/2019 that will be paid on September 12, 2019

- Awards from
- CFO of the year from 'The Asset Magazine'
- · Asia Responsible Enterprise Award 2019 from 'Enterprise Asia'
- · Asia Best CFO (IR) and Best Investor **Relation Company** from Corporate Governance Asia Magazine
- GPSC was classified as Securities in ESG100 for the year 2019 from 'Thaipat Institute'

## **CONTROL**



Nam Lik 1 was COD since July 2019



Xayaburi and CUP4 which are under construction with over 95% completion is expected to COD within 2019



**NNEG** expansion phase expected to COD in 2020



WTE is expected to COD in



**ERU** which jointly operate **CPSC** with Thaioil is expected to COD in 2023





## **GPSC Growth and Strategic Direction**



Update of projects



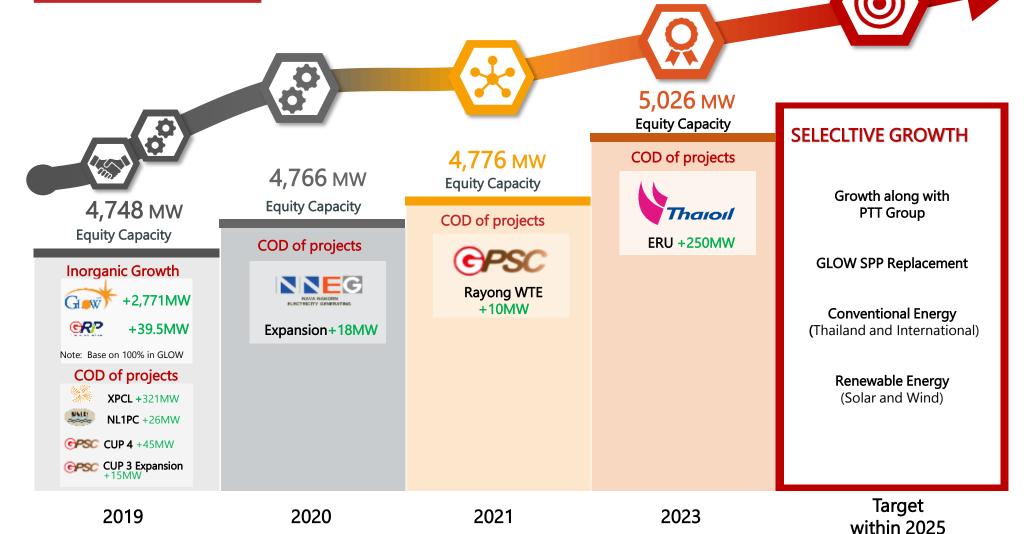
**Equity Offering** 



Financial Performance

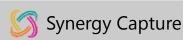


## **GPSC Electricity Growth Pipeline**



Strategic Direction and Growth Strategy 3 Pillars





Operation Excellence & Asset Optimization

Corporate & Business Infrastructure

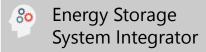




Domestic and International

**N** Renewable





Energy Management Solution Provider



S-CURVE

## **Strategic Direction** and Growth Strategy **Synergy & Integration**









**Enhancing and** prioritizing synergy initiatives

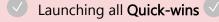
**Developing business** cases and action plans

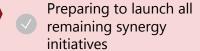
Launching selected **Quick-win initiatives** 



#### **Initiatives Launch**

## Aug - Oct 2019



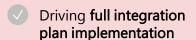


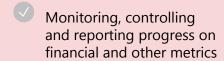


**Full Implementation** 

#### Nov 2019 Onwards

Launching all initiatives





Ongoing synergy identification for additional uplift in Phase 2



## **Strategic Direction** and Growth Strategy **Selective Growth**







## **SHORT-TERM GROWTH** 2019-2020



#### **GROWTH ALONG WITH PTT GROUP**

Domestic and international such as Gas to power investment also the investment in Maptaphut and EEC area



#### **PDP 2018**

Opportunity capture such as SPP replacement as ERC announced the electricity purchase from SPP with contact ending during 2019-2025, Solar floating (EPC) and Solar



#### **SELECT & DEVELOP** STRATEGIC PARTNER

for focus countries

## LONG-TERM GROWTH 2021-2025



**RENEWABLE IN GREENFIELD AND DEVELOPER SCHEME INVESTMENT** 



**USE CO-GENERATION EXPERTISE TO EXPAND IN FOCUS COUNTRIES** 



## **Strategic Direction** and Growth Strategy

S-curve

## GPSC has strengthen its knowledge and capabilities in providing ESS services



**EXPLORE NEW S-CURVE BUSINESS FROM ESS** 

SEEKING NEW MARKET AND CUSTOMERS

THROUGH PILOT PROJECTS

2019 Onwards





**GPSC AS A SYSTEM** 

**INTEGRATOR** 

2019





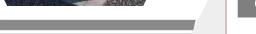




System Integrator/ Developer in Micro-grid/ESS

Manufacturer in Battery



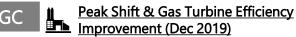


S-CURVE











- Increase efficiency of Gas Turbine Improve power stability of GC operation in Rayong province
- Provide future power optimization for major industries supporting GC Group







Increasing effectiveness of power consumption that benefit environment



#### **GPSC Energy Storage System Projects Information and Status:**

Residential Chiang Mai U 10kW/17kWh Industrial GCL 625kW/625kWh with 2MWp solar	
Industrial GCL 625kW/625kWh with 2MWp solar	
	_
Industrial GC 250kW/1.5MWh	<b>=</b>
Smart City VISTEC 1MW/1MWh	<b>=</b>

Complete Contructing



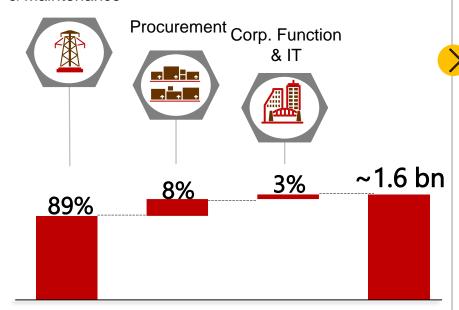
## **Expected Synergy Benefit**



Phase 1

## EBITDA Contribution Per Annum<sup>/1</sup> Identified in Phase 1

## Operations & Maintenance



Note: 1. Recurring EBITDA synergy value based on current portfolio

## 1. Recurring Benefit in Phase 1

+1.6 bn

Ramp up with full EBITDA'1

contribution

by 2024



Phase 1

Phase 2

## 2. Additional One-time Benefit

3. Further Identification in Phase 2

+2.5 bn
One-time
CAPEX Avoidance

Additional uplift from Growth Initiatives

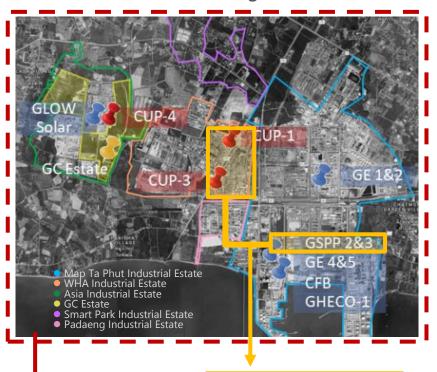
For 200 MW growth in MTP



## Quick wins & Big wins



Power and Steam Integration leads to cost savings and more capacities to serve new demand



## Big-win

## **Full Integration from Power and Steam** Integration

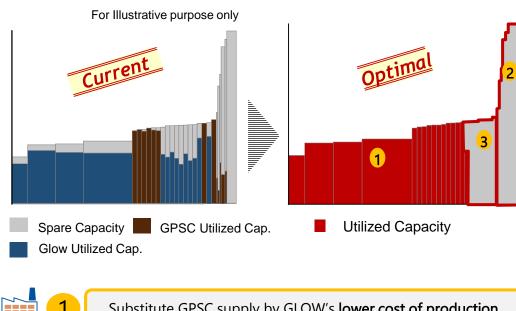
• Rebalance production to optimize cost

## Quick-win

Immediate benefits from Power and Steam Integration

· Reduce standby time

#### Marginal cost per unit (THB / MWheq)





Substitute GPSC supply by GLOW's lower cost of production



Optimize Back-Up Capacity and Cost



Avoid or Delay Power Plant and Distribution Network CAPEX



**Increase Supply Opportunities** 



## **Growth Platform Strengthened by Synergies**



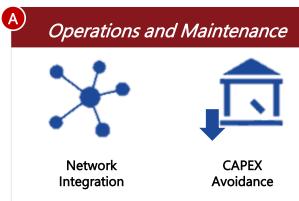
## 'Larger and Stronger Power House'



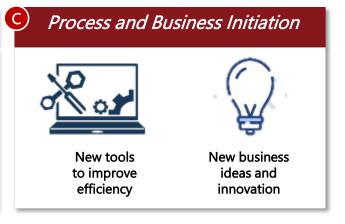




## 'Continuous Synergy Realization'







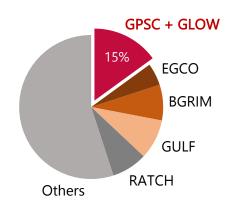
## 1. Leadership Position in SPP



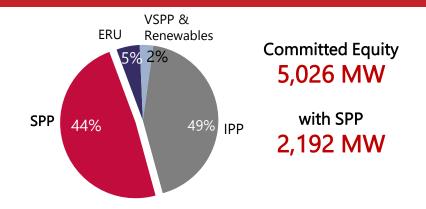
### SPP Market Share by Installed Equity MW/1

## Thailand's largest SPP player with strong resources

and network reliability



### GPSC's Committed Portfolio/2



te: 1. Data source from companies' website and ERC as of July 2019

2. Based on 100% in GLOW

## SPP Replacement Project: Stage 1 and 2 Projects (Tentative only)

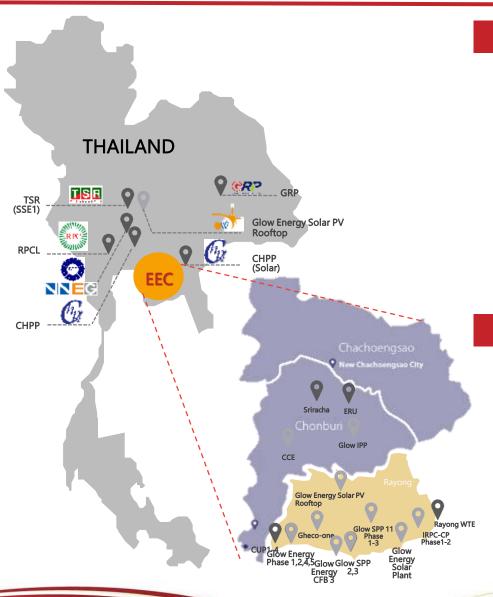
Plant	Power (MW)	Steam (TPH)	Max. EGAT PPA	Notice to proceed	SCOD			
Stage 1								
GEN Phase 2	192	300	30 x 2	2020	2022			
Stage 2								
GSPP2	192	300	30 x 2	2022	2024			
GSPP3 (Coal)	120	168	30 x 2	2022	2024, 25			
GSPP11#1	80	-	30 x 1	2023	2025			
Total	584	768						

Source: Glow Analyst Meeting Q1/2019

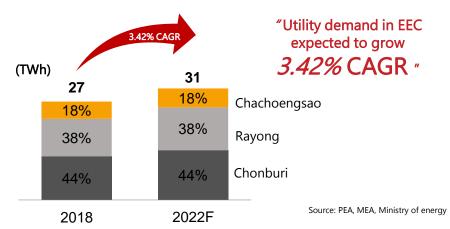


## 2. Solid growth platform and Expansion in EEC





## Capture solid growth in EEC



## **Supportive Industrial Customers Landscape**



### >5 Industrial estates



#### >5 Industries

- Petrochemical
- Chemical
- Refinery
- Steel
- Industrial gas
- ~75 companies
- ~120 plants & facilities

#### Customerneeds

Reliability

Cost competitiveness

Backup support

Flexibility



## 3. Stronger HR capabilities



## **Human Resource Key Enablers**



- Culture Alignment
- Growth Mindset
- Leadership Development
- Strengthening Core Competencies
- Employee Engagement
- People System Alignment

## **Group's Objectives**

#### **Selected Growth**

- Core and project management Expertise
- Technical Expertise
- International BD talents
- M&A, Legal & Financial







## **S Curves and Digitization**

- Dedicated digital energy team
- Technical Expertise
- System integrator / micro-grid
- New Initiatives







**GPSC Growth and Strategic Direction** 



**Update of projects** 



**Equity Offering** 



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

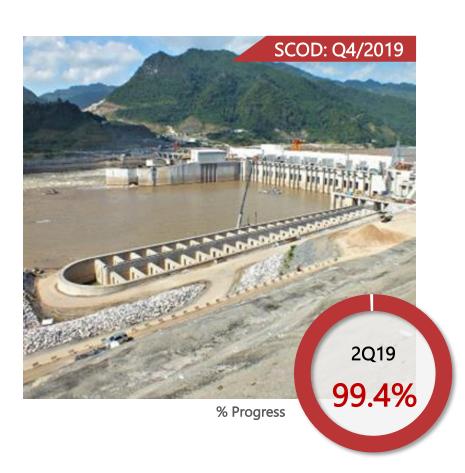
**GPSC HOLDING** 

**PROJECT UPDATE** 

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

## Xayaburi Power Company Limited (XPCL)





## **PROJECT SUMMARY**

**TYPE** 

**ELECTRICITY (MW)** 





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, fish ladder and 500 kV transmission line were mostly completed.
- The commissioning test of each unit has been in progress in order to sell electricity to EGAT during the Unit Operation Period (UOP).



## CENTRAL UTILITY PLANT 4: 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 HOLDING** 

PROJECT UPDATE

100% Of total share

- Main installations and erections have been completed, to prepare for the following unit test and commissioning.
- The progress of the inter-connection of power and steam pipeline has been achieved over 90%.
- Next activity will be integration test and commissioning.

## Nava Nakorn Electricity Generation (NNEG) **N**EG **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 HOLDING** 

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 (WTE)





## **PROJECT SUMMARY**

TYPE ELECTRICITY (MW) RDF (T/day)

8 300

LOCATION CUSTOMER

Rayong





Provincial Electricity Auth (PEA)



### **GPSC HOLDING**

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.

## ERU as a power and steam supporting unit of CFP Project



### PROJECT SUMMARY

**ELECTRICITY (MW)** STEAM (T/h)

PROJECT DESCRIPTION

Pitch

250

175

100%

**GPSC HOLDING** 

Of total share

LOCATION

**CUSTOMER** 

Laem Chabang Port



Industrial User around Laem Chabang Port





• The Energy Recovery Unit (ERU): the plant which uses pitch as the main fuel feed to generate power, steam and other Products to the CFP Plant









**GPSC Growth and Strategic Direction** 



Update of projects

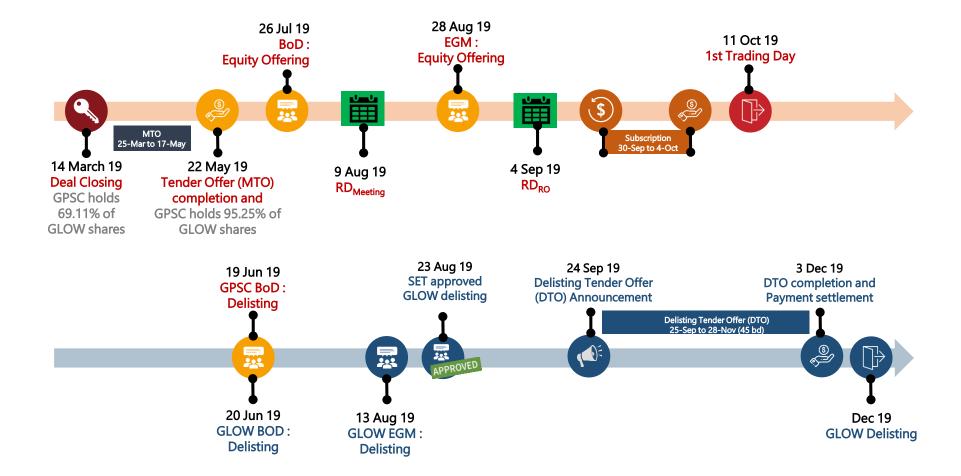


## **Equity Offering**



Financial Performance

## Timeline: Equity Offering and GLOW Delisting





## Use and Source of Fund with Deleveraging Plan

#### **USE OF FUND**

#### SOURCE OF FUND AND DELEVERAGING PLAN FOR FUTURE GROWTH

134.5 Bn (USD 4.36 bn)

Loan from PTT and GC 35 Bn (USD 1.13 bn)

Bridge loan from Financial Institutions 99.5 Bn (USD 3.23 bn)

Equity 74 Bn (USD 2.40 bn)

Loan and Debentures



Learnesterout Institutions.

o Bernoutte

Consideration Consideration of GLOW's shares Mandatory for 69.11%

for Tender Offer 26.14%

for Delisting Tender Offer 4.75% **GPSC** Bridging loan

> Net D/E 3.89X

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 obtained accumulatively 95.25% and will tender the remaining shares via Delisting Tender Offer by Dec 2019

#### 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/long-term loan, equity injection, and net dividend payment from GLOW
- The fund will also be used in investments for future growth, including ERU, Malacca and SPP Replacement **Projects**



## **Rights Offerings Key Terms**

**RO Amount** 

**RO Subscription Price** 

Discount from 30D VWAP (THB 70)

THB **74,000** million (USD 2.40 bn)

THB 56 per share

20%

**Numbers of Allotted Shares** 

Allocation Ratio (Old: New)

1,321

million shares

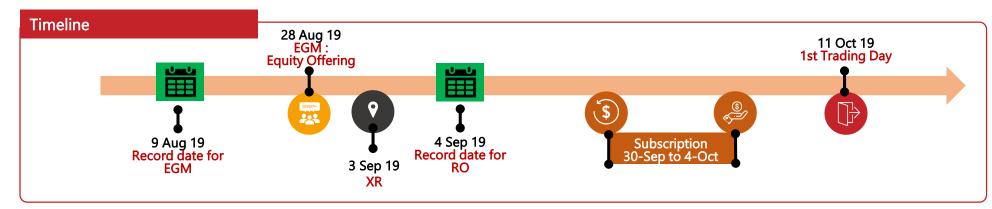
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#### **Objective of Capital Increase**

- Repayment of the short-term loan (Bridge Financing) to financial institutions and the major shareholders (i.e. PTT and GC)
- Maintaining financial ratio to be comparable with peers and financial structure which is suitable for the investment in the current and future projects

#### **Allocation Method**

- Allocate to existing shareholders proportionate to their respective shareholdings
- Oversubscription is allowed allocate until there are no remaining or no shareholder subscribes for the remaining shares



## **Equity Offering Summary**

#### **Objectives**



(USD 2.40 bn)

Achieve THB 74 bn as required



Completion by 2019



**Optimize Free-float** 

#### Right Offering



Giving rights to existing shareholders (no control dilution if rights are exercised)



Allow oversubscription for fund raising completion objective



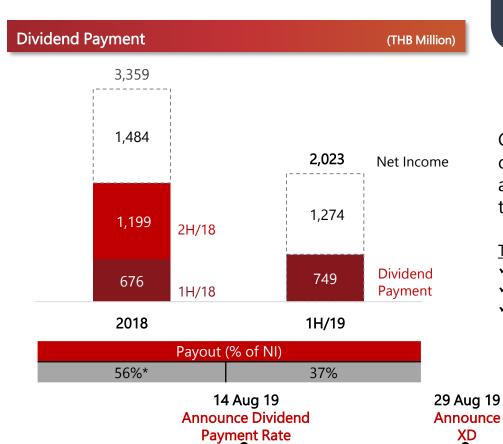
Offered at discounted market price to attract existing shareholders to subscribe



Appropriate method for meeting fund raising in timely manner



## GPSC Announce Interim Dividend Payment



<u>Dividend Policy</u>: Minimum dividend at the rate of not less than 30 percent of the net profits according to the financial statements of the Company after the deduction of tax, reserved funds as required by law (with additional conditions)

#### GPSC Announce to pay dividend of THB 0.50 per Share

GPSC announced on the 14<sup>th</sup> August 2019 that the company will pay dividend of THB 0.50 per share aggregating to an amount of THB 749 Million or 37% of the total net profit for the company of 1H/2019

#### The dividend payment is the result of:

- ✓ Successful acquisiton of GLOW
- ✓ The better operating performance in 1H/2019
- ✓ The continuous growth of GPSC with 4 projects that is expected to
  COD within 2019 and 2020 including NL1PC, XPCL, CUP4 and NNEG



2019 Timeline





**GPSC Growth and Strategic Direction** 



Update of projects



**Equity Offering** 



**Financial Performance** 

# **Key Financial Highlights** Q2/2019

Key financial highlights



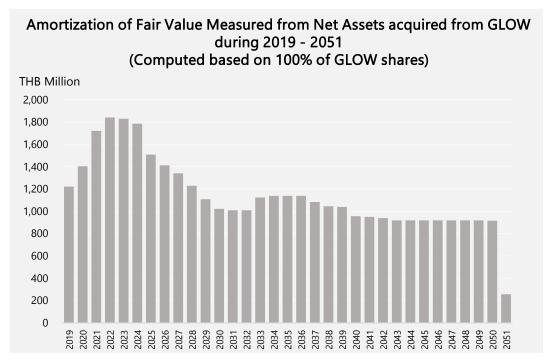
## The better performance is mainly due to:

- ✓ The first full quarter recognition of GLOW's Independent Power Producer (IPP) and Small Power Producer (SPP) performance
- ✓ The consistency of GPSC's and GLOW's sales of both electricity and steam to industrial customers



# Fair Value Measurement of Net Assets from the Acquisition of GLOW

Items	Book Value of GLOW (THB Million)	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	<b>37,594</b> (USD 1,219 mm)	
Non-Controlling interests at 30.89%		(32,092)		
Total Net Asset obtained GLOW at 69.11%		<b>56,911</b> (USD 1,845 mm)		
Goodwill		<b>36,090</b> (USD 1,170 mm)		
Proportion of acquisition cost 69.11%		<b>93,001</b> (USD 3,015 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.

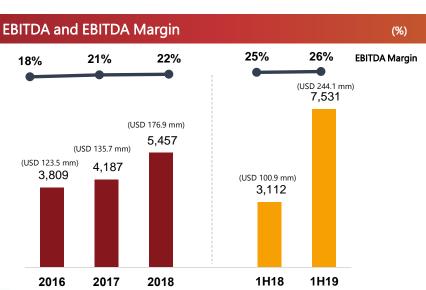
Note: Use FX = 30.846 THB/USD; the w.a. selling rate announced by the BOT on 15 Aug 2019

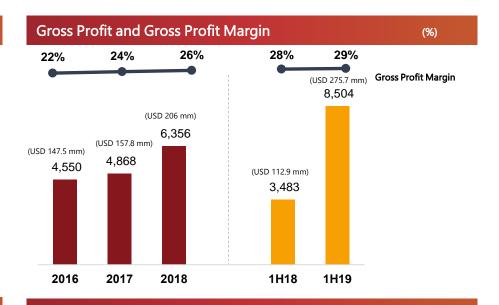


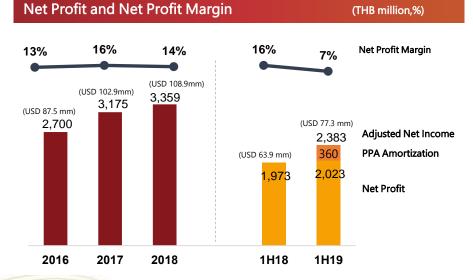
## **Improving Financial Performance**

(THB million)







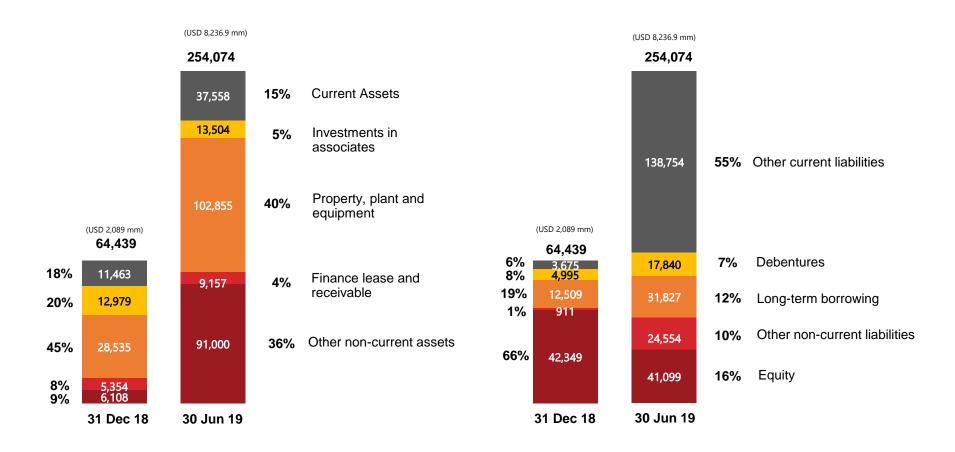




Revenue

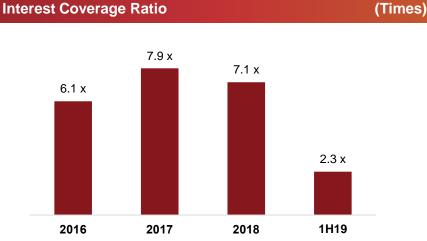
## **Solid Financial Position Post Acquisition of GLOW**

Total Assets (THB million) Total Liabilities & Shareholders Equity (THB million)



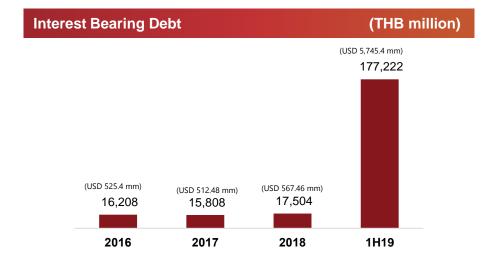


## **Solid Financial Position Post Acquisition of GLOW**

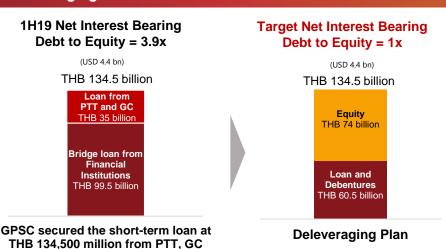


Total D/E and Net Debt/ Equity ratio Times)

■ Interest Bearing Debt to Equity



#### **Deleveraging Plan**



Note: 1) Interest bearing debt / Equity = Interest bearing debt / Total equity

2) Net interest bearing debt / Equity = Total interest bearing debt minus cash and cash

equivalents, restricted accounts and temporary investments / Equity

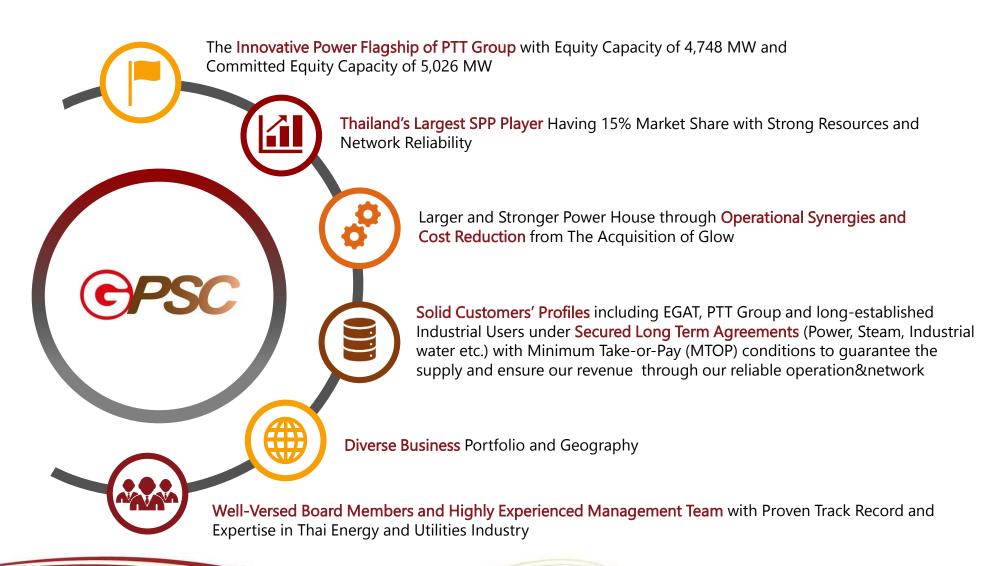
3) Interest coverage = EBITDA / Interest expenses

and Financial Institutions.

Use FX = 30.846 THB/USD; the w.a. selling rate announced by the BOT on 15 Aug 2019



## **Key Takeaways – Investment Highlights**



## **THANK YOU**

#### **IR Contact**

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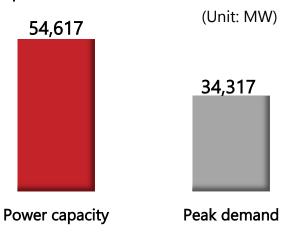
ir@gpscgroup.com www.gpscgroup.com



## Summary of PDP 2018

#### **Thailand Power Statistic**

as of September 2018



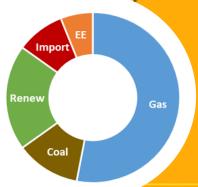
#### <u>Implication</u>

- Consideration on new demand and reserve capacity by regions will create opportunities for new round IPP bidding. Western region should be the first lot within 2019.
- 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.



#### **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



## **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

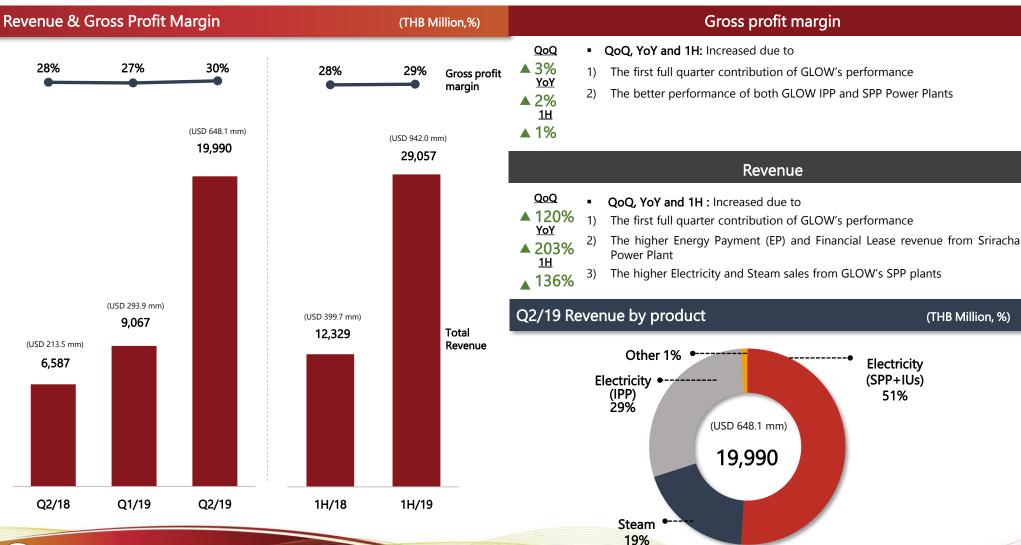


## **Power Plants Portfolio of GPSC**

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		237	145	106	-	-			
ERU									
ERU	Cogen	250	250	-	175	-	GPSC (100%)	2023	25/2048
Total ERU		250	250	-	175	-			
Total capacity		8,011	5,026	4,338	2,876	7,372			

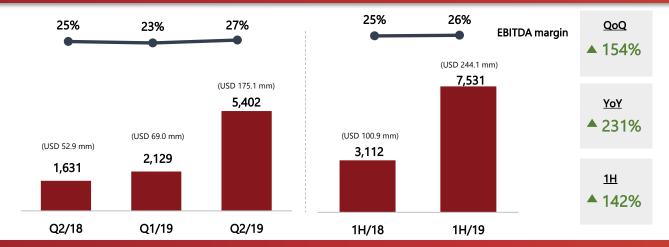


## Q2/2019 Financial Performance Summary (1/2)



## Q2/2019 Financial Performance Summary (2/2)

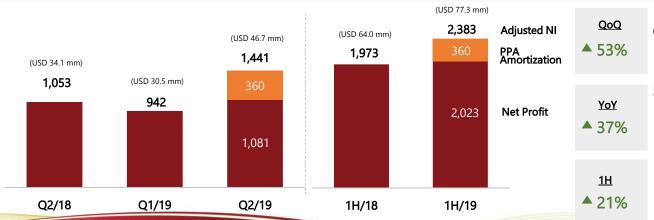




QoQ, YoY and 1H: Increased mainly as a result of the immediate recognition of GLOW's performance after the acquisition of GLOW including Independent Power Producer (IPP), Small Power Producer (SPP) and Very Small Power Producer (VSPP) and Others.

#### Net Profit and Adjusted Net Income

(THB Million)



QoQ, YoY and 1H: Adjusted Net Income increased due to

- 1) The immediate first full quarter recognition of GLOW's performance after the acquisition
- 2) The increase in net profit by 15% showing that both GPSC and GLOW has shown consistency in the sales of both electricity and steam to industrial users



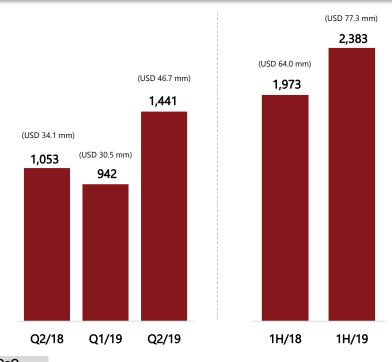
# Adjusted Net Income increased as a result of the first full quarter acquisition of GLOW

Adjusted Net Income

(THB Million)

Adjusted Net Income of Q2/2019

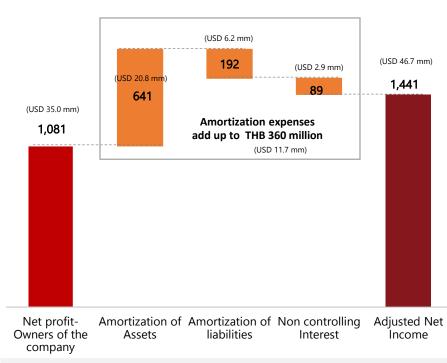
(THB Million)



53% <u>yoy</u> ▲37%

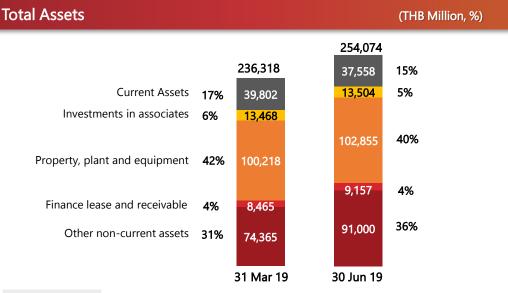
 QoQ, YoY and 1H: Increased from Q1/2019 and 1H/2018 respectively as a result of the first full quarter recognition from acquired GLOW despite the burden of interest expense from short-term loans

21%



Adjusted Net Income is the net profit attribute to the company that excludes
the "fair value of intangible asset from the acquisition of GLOW", the
assessment of the fair value of net assets and allocation of business
acquisition cost which has been calculated backwards from 14th March 2019
(the first day that GPSC has recognize GLOW's performance in the
consolidated financial statement) according to the consolidated financial
statement of the company

### Financial Position of GPSC and Subsidiaries



<u>Assets</u>

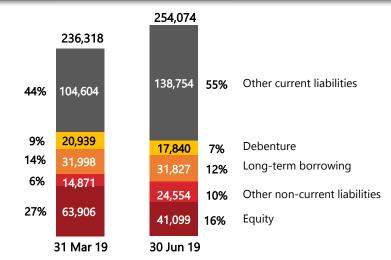
**A** 8%

Total assets increased mainly from:

- Other non-current assets increased by THB 16,635 million or 22% due to the recording of the fair value of net asset from the acquisition of GLOW
- Property, plant and equipment: increased by THB 2,637 million or 3% after recording the fair value of net asset from the acquisition of GLOW
- **Finance lease and receivable** net: increased by THB 692 million or 8%

Total Liabilities & Shareholders Equity

(THB Million, %)



**Liabilities** 

**24%** 

Total liabilities increased mainly from:

- **Current liabilities** increased mainly from an increase in short-term loan from financial institution for the acquisition of GLOW
- Other non-current liabilities increased mainly due to the increase in deferred tax liabilities of THB 8,932 million from recording the fair value of net asset from the acquisition of GLOW
- Long-term borrowing and debentures decreased from the repayment of loans to financial institution and debenture

**Equity** 

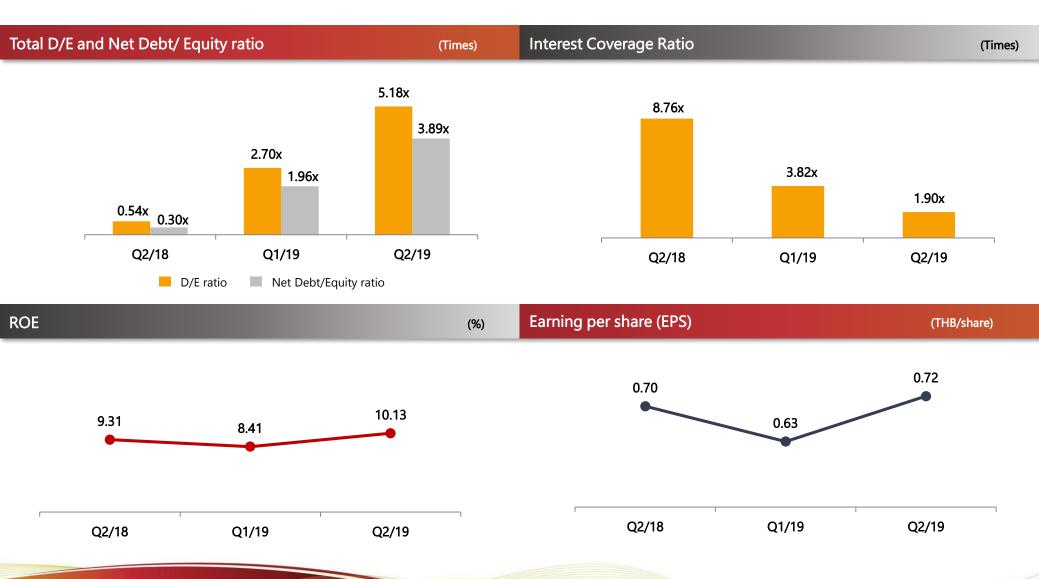
**4** 36%

**Total Equity** decreased mainly from:

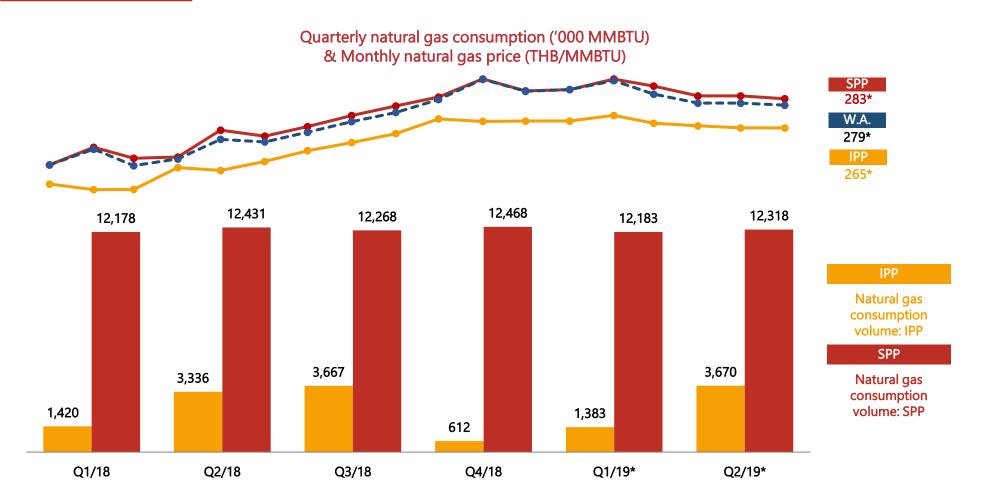
 The change in non-controlling interest and the difference from the change of investment proportion in subsidiaries resulted from the tender offer for acquisition of GLOW



## **Key Financial Ratio**



# Natural Gas Consumption vs Price Trend



Remark: Latest price as of 30 June 2019 Note: \*Excluded GLOW



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