SET Digital Roadshow Q1/2021

June 10, 2021



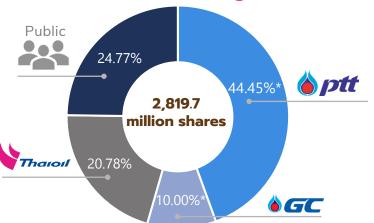




The power flagship of PTT Group

"GPSC, The global leading innovative and sustainable power company, the core business is to generate and supply electricity and utilities to customers and also developing new S-Curve business to create value to stakeholders."

GPSC's shareholding structure



* PTT stake includes 1.91% hold via SMH, a wholly-owned indirect subsidiary of PTT. The transaction was completed on June 8, 2021.

COMPANY INFORMATION (as of June 8, 2021)

Business Type | Energy & Utilities listed on SET

Paid-up Capital | THB 28,197 million

.

Market Cap. THB 210,070 million

CREDIT RATINGS

BBB-

S&P Global

AA-

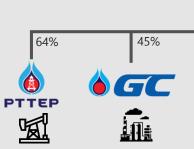
TRIS

A+(tha)

"Creates value through business chain"

FitchRatings

PTT Group's Business



E&P

Petrochemical



Refinery

45%



Refinery & Petro.

45%





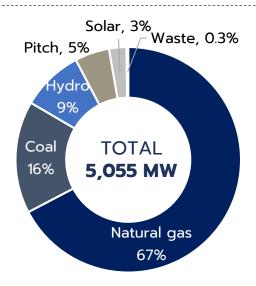


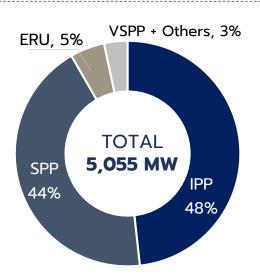
75%

Oil & Retail

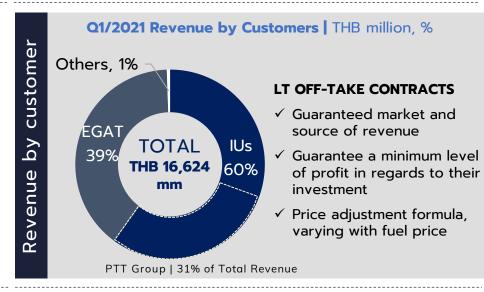
PTT stake includes 1.91% hold via SMH

Equity capacity (%)





Customer portfolio & services





GPSC milestones I transforming to "Utility of the Future"

2015-2018

2013-2014

GPSC established



- Founded through merging of PTT Utility Company and Independent Power (Thailand)
- 8 of PTT's power assets were transformed to GPSC

Scale up organization



 Portfolio expansion in Thailand and overseas



 Merger and Acquisition of GLOW



· Investment in 24M

2019-2021

Consolidation & Innovation



 Synergy & operational excellence with GLOW





 Scaling up of battery manufacturing business

2021 onwards

Utility of the future – growth driven by diversification



- √ Geographical expansion
- Building second home countries



✓ Diversified business (integrated utilities, energy management, renewable energy etc.



 S-curve business (smart energy, future energy, battery value chain, etc.)

GPSC: Q1/2021 Highlight & Outlook

Strategic Directions (3S)

- Synergy and Integration
- Selective Growth
- S-Curve

Sustainability at GPSC

Q&A



Q1/2021 | Highlight

Challenges and Concerns

COVID-19



Energy Transition



Climate Change

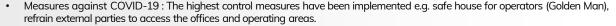


Operational Excellence and Readiness to move forward





To ensure stability and continuity of utilities to supply IUs



- Business Continuity Plans (BCP) to give confidence that the company will be able to manage and continually operate production, without any interruption
- Operational Excellence: Best-in-class operation for reliability and security of the network and continuous Improvement

Growth ambitions



- Follow the growth plan to invest in conventional and renewable
- Increased focus on renewables
- Increased present outside of Thailand

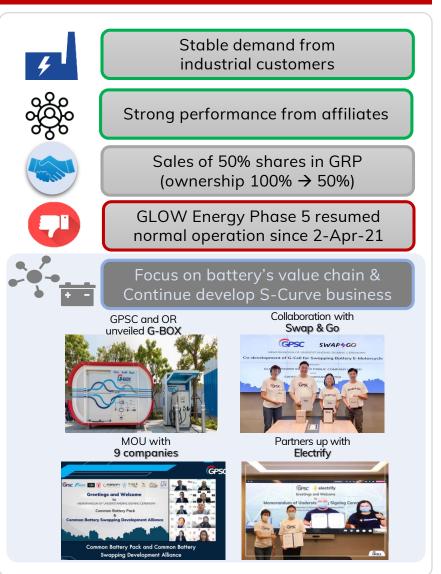
New Businesses 🕨



- Battery value chain
- Expansion in S-curve and adjacent businesses

Q1/2021 | Highlight

Q1/21 Events & Highlights



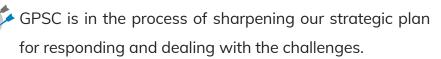
Q1/21 Performance Sales Volume of Industrial Customers (IUs) Steam sales volume ('000 tons) Electricity sales volume (GWh) 14% YoY 14% QoQ ▼1% QoQ 2,081 3.739 1,928 3.705 1,823 3.254 Q1/20 Q4/20 01/21 01/2004/20 Q1/21 Net Income (THB MM)



2021 Outlook

Performance Outlook

- Synergy value from acquisition of GLOW is expected to be THB >800 million (after tax) in 2021.
- Demand of electricity and steam in the MTP area increased by 4%, approximately.
- ▼ In 2021, average gas price is expected to be higher 5% from Q1/2021 and coal price is expected to go up from Q1/2021.
- GLOW Energy Phase 5 Plant resumed to normal operation in 2-Apr-2021. Insurance payment claim is ongoing.



Project Closing and COD in 2021



Solar projects of 25 MW in Taiwan expected to closing in Q2/2021



Rayong Waste to Energy Project has COD on 28-May-2021



Energy Storage Unit 30 MWh p.a. expected Start of regular production in Q2/2021

Key Assumptions (Unit: USD/BBL)



- Natural gas price is forecasted to increase slightly in the same direction with crude oil with lag time 6 – 12 months.
 - NG price increased slightly in Q1/2021.
 - Blended gas cost of SPP portfolio is expected
 10% increase at year-end.
- Coal price
 - Coal price spiked in Q2/2021.
 - Coal price range is expected about US\$ 95-100 per ton (NewCastle) at year-end.

GPSC: Q1/2021 Highlight & Outlook

Strategic Directions (3S)

- Synergy and Integration
- Selective Growth
- S-Curve

Sustainability at GPSC

Q&A



Strategic Directions and Growth Strategy | 3S Strategy



SYNERGY & INTEGRATION







ROE Uplift



Thailand Business Development



International Business Development



Co-investment with PTT



New Businesses







System Integrator



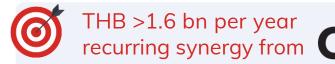
Digital Energy

Synergy and Integration

Synergy and Integration

Q1/2021, the recognized synergy value is approx. THB 224 mm (After tax)

mainly from operation and maintenance, the management of power and steam network integration and coal ash management





Ramp up with full synergy value contribution by 2024

Key Synergy Initiatives



- Enhance reliability in Maptaput via Power and Steam Integration
- Aligning best practice to increase maintenance and procurement productivity and cost saving
- Corporate Function & IT Synergy

Operational Excellence (OpEx)



"To be Top of Operational Excellence in power and utilities business" Strengthen the core = Foundation for future

- Best-in-class operation
- Customer-centric utility service provider

Explore & Innovate

- Build capabilities
- Setup and scale up S-curve and new business



Synergy and Integration

To drive "Operational Excellence" across all assets of GPSC

Shareholder satisfaction

Customer satisfaction and engagement

Safety



Reliability



Profitability



Sustainability



- Align LOTO and Permit to Work procedures
- Quality Job Safety Analysis
- Introduce "Hold Point" in Permit to Work
- Standardize Behavioral Based Safety KPIs across all plants

- GPSC-Glow Interconnection (power& Steam)
- Predictive Maintenance
- Classify critical equipment and replace obsolete equipment
- Replace Obsolete Relay **Protections**
- Gen/Load Shedding
- "Go Live" Mamt. of Change
- Cascade Reliability KPI to all O&M Staff

- GPSC-Glow Interconnection (power& Steam)
- Enhance Linear Pro. **Optimization Tool**
- Performance Monitoring of Major Equipment
- **IoT for Energy Savings**
- Plant O&M Cost Management
- Outage Interval Optimization
- Successful New-Built Project hand Over

- Competency and Gap
- Incident Management Process (P-D-C-A)
- Quality RCA

Closing

- **End-Stage Operations** Organization
- Best Practice Sharing
- Use Yammer for group communication
- Succession Planning
- Industries Benchmarking
- Develop HV Competence Center

Organization and people: ACT Spirit, Effective Communication, Qualifications, Analytical Skills, HV Competence Center



OEMS: SSHE, ORM, RAI, OPS, VCM, CPM, MOC



Digital Transformation: Lean Process, New ERP Implementation, Data Management, Robotic, Sensors



Selective Growth

GPSC Selective Growth

Thailand

International

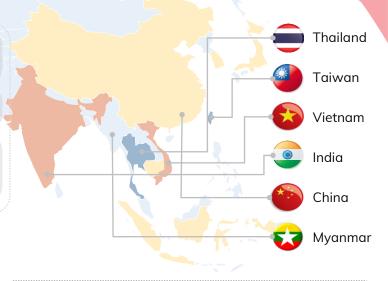




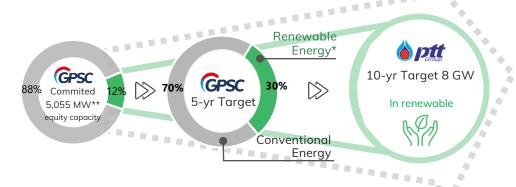




Renewable



Way forward to sustainable growth



Focusing on power plant projects by Leveraging PTT Group's Networking

GRP will be a "new energy platform" for PTT Group Investing especially in renewable energy businesses internationally through:





Financial capability

Expansion with **Business Ecosystems**

Manufacturing Scale-up



One-stop service smart solution provider



Digital Energy and **Expand business**

Pilot projects and proof of concept









- · Sharing of experience
- · Joint procurement of Electrode Active Materials
- · Right to offtake product to Thailand and etc.





Key enabler for GPSC's other s-curves with strong competitive advantage

GPSC

Commercial

Scale











Possible acceleration if market develops faster

Development and Achievements



24 February 2021:

GPSC and OR unveiled G-BOX

150 kWh G-Box, a Battery Energy Storage System at PTT station



26 March 2021:

Collaboration with Swap & Go for swappable battery packs of motorcycles



29 April 2021:

MOU with 9 companies to develop a common battery pack and to develop a battery swapping platform for charging stations.

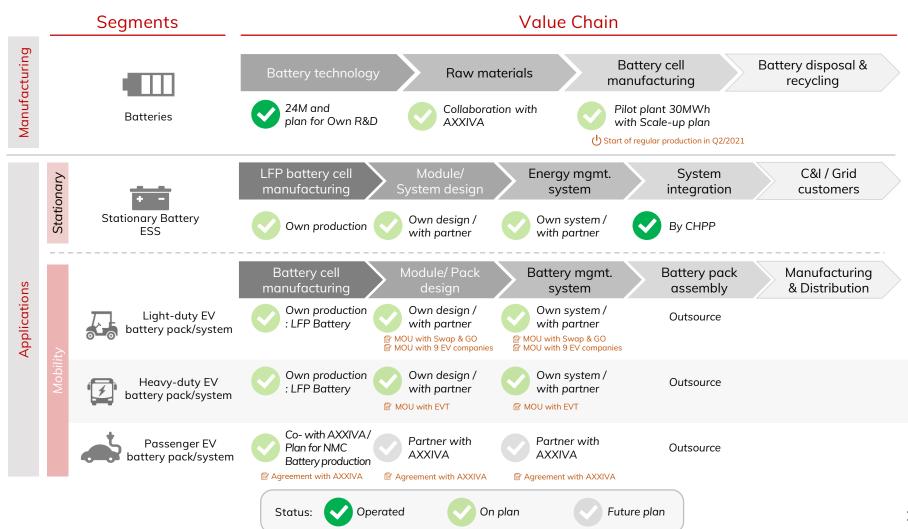


18 May 2021:

Partners up with Electrify to develop and implement a P2P energy trading platform

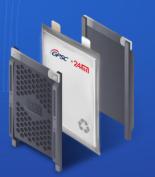


GPSC has built capabilities across different segments of the value chain, with focus on stationary battery ESS and light duty EV battery pack



GPSC Battery: G-CELL and Applications

G-CELL Core Values



Safer

Greener

Reliable



GCELL Semi-Solid Battery Unique Design



Shorter **Process**



Remove 40% Inactive Material



No binder Needed



Low Risk of Contamination

Application and Target Market for Semi-Solid Energy Storage Unit (30 MWh p.a.)

Energy Storage



E-Mobility



Target applications

Commercial & Industrial

- Charging station
- Industrial Estate

Micro-Grid

- Remote Area

Residential (RESS) and others

- **Property Development**
- ESS Mobility and others

E-Mobility

- Battery for EVs
- Battery swapping

Target market



PTT Group network



Reputable commercial & Industrial



Government offices. University, Hospitals



FVs Provider (Bus, Motorcycle, Tuktuk)



Lead Acid Replacement



EV-Bus



ESS x EV Charger



Battery Swapping & Car Charing



Battery Pack



Energy Platform

Applications and Achievement in Renewable & Smart Energy Projects

VISTEC VIDYASIRIMEDHI

SMART ENERGY MANAGEMENT

- √ 1.39 MW renewable energy (solar roof + floating)
- ✓ 1.2 MWh ESS, Renewable optimization and Zero-import building
- ✓ Blockchain P2P energy trading, EV chargers and Artificial Intelligence





6 MW Smart Energy Project at Suranaree University To create a low carbon university

1.74 MW 4.312 MW 100-200 kWh
Solar Rooftop Floating Solar Lithium-ion BESS Platform

- High efficiency BESS with management of solar power generation
- Blockchain-based smart grid and Al
- Cutting-edge innovation and smart energy platform



@Wangchan Valley

Smart Natural Innovation Platform



SMART Energy Management



Clean Energy Generation



Flexibility Distributed Generation



Cost Efficient No Clean Energy Shedding

ESS FOR GC's INNOVATION CENTER (Launched: Feb 2020)





- ✓ Increase gas engine efficiency
- ✓ Peak shift with ESS
- ✓ 250kW/1.5MWh
- ✓ Emergency backup power

ptt 1

First offshore floating solar farm

TRNK 100 kW installed capacity for seaside of PTT Tank





- PTT Tank: Cut the electricity cost and reduce carbon dioxide emission
- GC developed special plastic "InnoPlus HD8200B"
- CHPP designed and installed the floating solar system

GPSC: Q1/2021 Highlight & Outlook

Strategic Directions (3S)

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Sustainability at GPSC

Q&A



Q1/2021 | Move towards sustainability

Sustainability & Climate Change Strategy

Sustainability Management Framework

Power Accessibility

Enhance stability of access by investing in distributed energy technologies and infrastructure



Quality of Life M

Empower better living by providing occupational training program, light for a better life program and zero-waste village

Eco - system 🛇



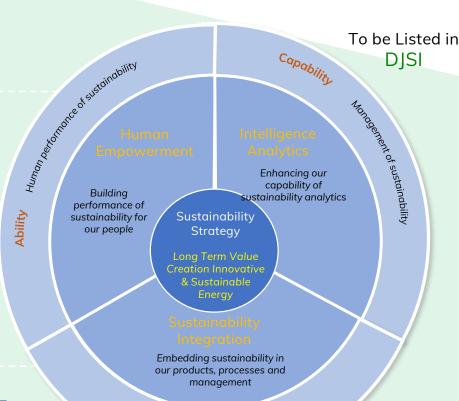


Eco-system of driving clean energy, cultivating the Circular Economy concept and easing environmental impacts

Sustainable Innovation

Sustainable Innovation for the corporation to drive improvement initiatives through Artificial Intelligence (AI) and Blockchain, innovation culture and youth social innovation

Long Term Values Creation Innovative & Sustainable Energy



Impact of business & society

Results



Aim to

NFT 7FRO

Sustainability | Net Zero Framework

The route to net zero for utilities

INTERNAL



Reduce fossil fuel usage

- Adopt best practice operational excellence
- Retrofit non-renewable power plants, etc.





Grow renewables

Execute the growth strategy as planned by

- Develop solar and wind power plants
- Integrate distributed solar and Switch to microgrid, etc.





Enhance infrastructure

- ESS with renewable energy generation support and EMS
- Implement digital transformation
- Study and adopt CCUS, etc.



EXTERNAL



Trading / Offsets

 Study carbon credits, emissions trading schemes, shadow carbon pricing, etc.



Note: ESS: Energy Storage System

EMS: Energy Management System

CCUS: Carbon Capture, Utilization and Storage

Q&A SESSION



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Suthathip Charoenkij +662 140 5318
ir@gpscgroup.com
www.gpscgroup.com

Update of Projects



Rayong Waste to Energy (WTE)





Electricity (MW)

9.8

Semi-Solid Energy Storage Unit | 30 MWh





Capacity (MWh/yr.)

30

SPP Replacement - Stage 1 | Glow Energy Ph. 2





Electricity (MW) Steam

(ton/hr.)

300

192

Energy Recovery Unit (ERU)





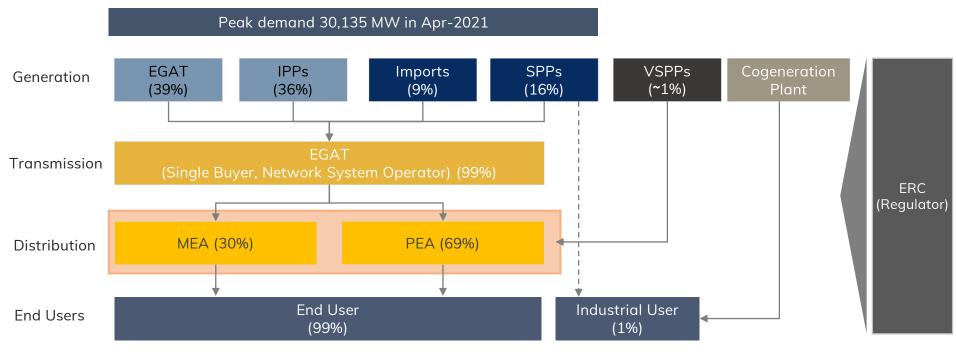
Electricity (MW) Steam

175

250

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

MEA Metropolitan Electricity Authority (State-owned entity)

PEA Provincial Electricity Authority (State-owned entity)

ERC Energy Regulatory Commission

Source: EGAT and GPSC 23

Power Plant Definition & 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

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:

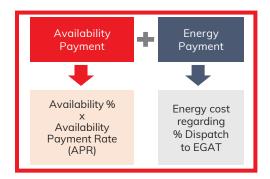
EGAT:

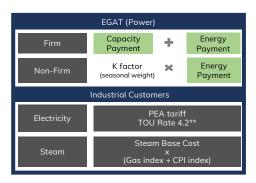
Firm: Contract term > 5 years; CP + EP (+ FS)**
 Non-Firm: Contract term <= 5 Years; Only EP_{NF}
 IUs: Commercial contract as agreed.

VSPP

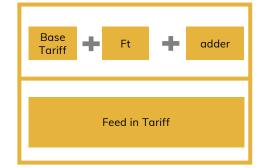
Very Small Power Producer (VSPP):

- 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/



Sustainability at GPSC | CSR / CSV / SE

Embedded sustainability to our strategy to build

"Long Term Value Creation, Innovation & Sustainable Energy"

LIGHT FOR BETTER LIFE Small-scale Solar PV in remote areas

Solar Rooftop to Schools in Rayong





- GPSC delivered Solar Rooftop System to 3 schools (25.9 kW) in Wangchan Valley in Rayong
- Lower emission of green house gas 93.5-187 tons of carbon/year

Solar Rooftop to Hospital in Koh Sichang

 GPSC and Thailoil delivered Solar Rooftop System (53.46 kW) to Koh Sichang Hospital to improve energy security of the hospital





Solar Rooftop to Hospital in Mae Hong Son





 GPSC and TOP delivered Solar Rooftop System (40.5 kW) to Thanyarak Hospital in Mae Hong Son

GPSC YOUNG SOCIAL INNOVATOR







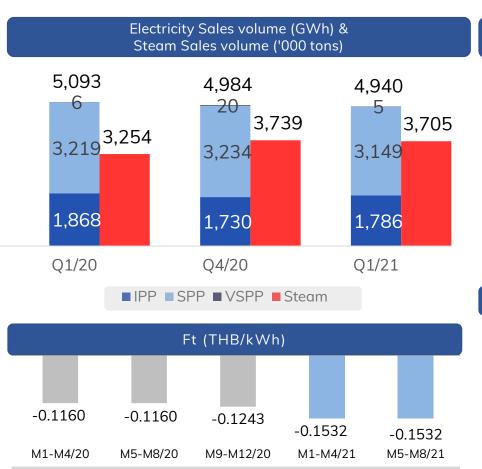
2 golden prizes and 1 silver prize from 2020 The 6th World Invention Innovation Contest (WiC) in Seoul

ZERO WASTE VILLAGE



Delivering a waste management learning center to Baan Phai community in Rayong

Q1/2021 Key Drivers



Ft for M1-M8/2021 is -15.32 Satang/unit.

IPP's Availability Rate (%)	01/20	04/20	O1/21	Chan	ge +/(-)
ii i s Avallability Nate (50)	Q1/20	Q4/20	Q1/Z1	YoY	QoQ
Sriracha Power Plant	95%	90%	99.8%	5%	10%
GIPP	100%	90%	76%	(24%)	(14%)
GHECO-One	96%	94%	59%	(37%)	(35%)



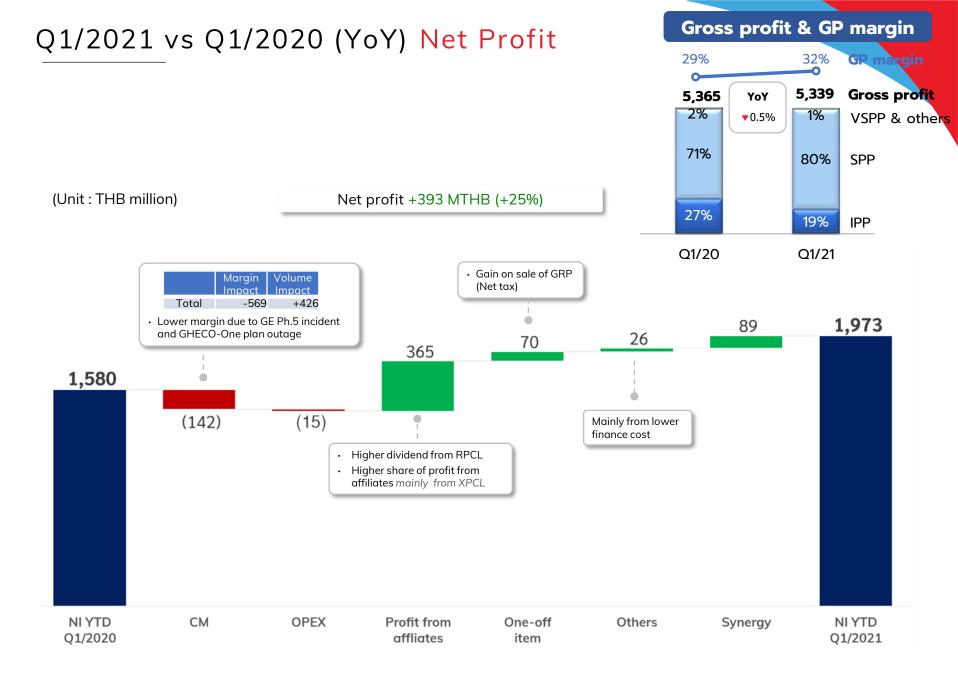


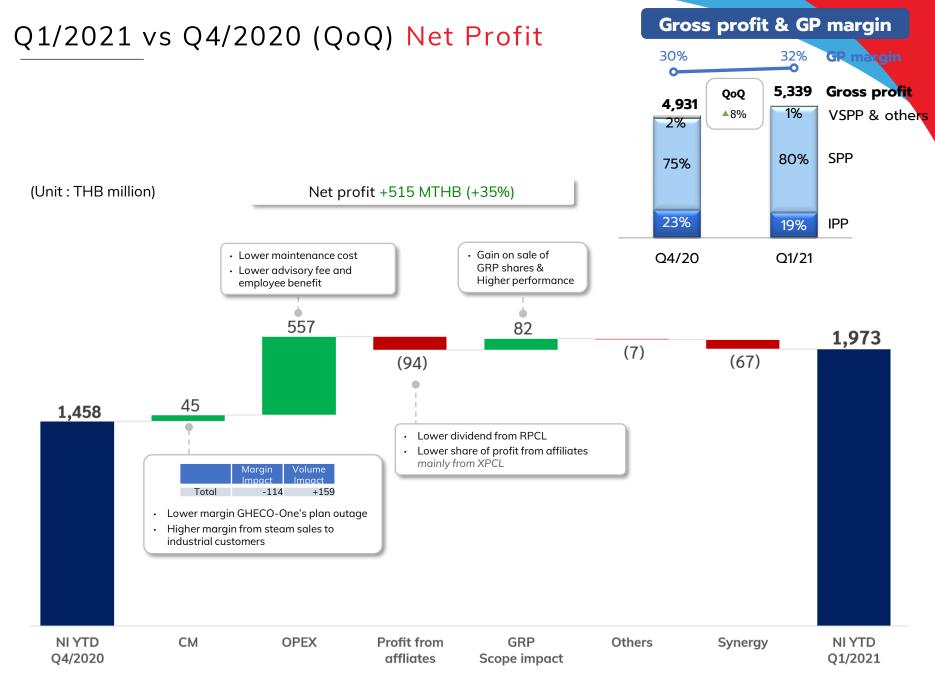
Coal Cost 2020 - Q1'2021 (USD/Ton JPU)



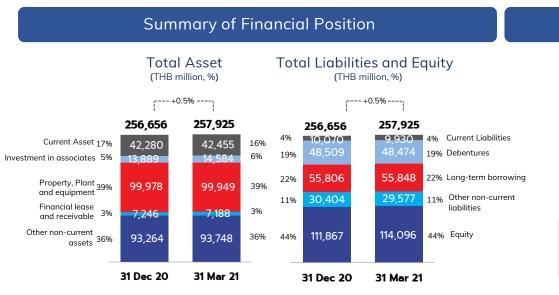
End	-month	FX	(THB/USD)	

M1/20	31.30	M10/20	31.37	M1/21	30.17	
M2/20	31.78	M11/20	30.45	M2/21	30.21	
M3/20	32.83	M12/20	30.21	M3/21	31.51	
Average	31.97		30.68		30.63	

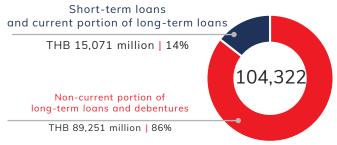




Financial Positions and Debt Profile



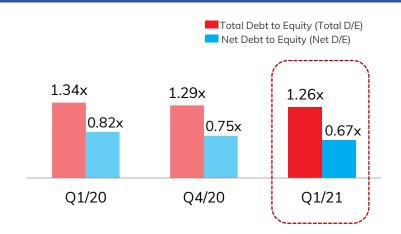
Total Interest-Bearing Debt | THB million



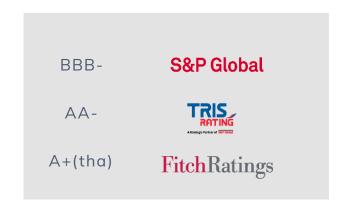
As of Q1/2021:

- Average cost of debt: 3.06%
- Average remaining tenor: 5.3 year

Total debt to equity and net debt to equity ratio | times



Credit ratings



Q1/2021 Operating Results

Overall operating results of the Company and its subsidiaries (unit: THB million)	Q1/20	Q4/20	Q1/21	change YoY	e +/(-) QoQ
Operating revenue	18,308	16,532	16,624	(9%)	1%
Cost of sales (excluding depreciation and amortization)	(12,943)	(11,601)	(11,285)	(13%)	(3%)
Gross profit	5,365	4,931	5,339	(0.5%)	8%
Selling and administrative expenses	(418)	(528)	(434)	4%	(18%)
Other operating income	4 054	5	5	25%	(8%)
EBITDA Depressiation and amountination	4,951	4,409	4,910	(1%)	11%
Depreciation and amortization EBIT	(2,074) 2,877	(2,046) 2,362	(2,053) 2,856	(1%) (1%)	0% 21%
Finance costs	(1,041)	(965)	(974)	(6%)	1%
Other non-operating income and expenses	174	133	264	52%	98%
Dividend received and shares of profit of associates and joint ventures	(68)	367	297	537%	(19%)
Income tax expenses	(254)	(141)	(453)	78%	222%
Profit before FX and extraordinary items	1,688	1,757	1,990	18%	13%
Net foreign exchange gain (loss)	(30)	12	2	106%	(85%)
Net profit	1,658	1,769	1,992	20%	13%
Non-controlling interests	(78)	(311)	(19)	(76%)	(94%)
Net profit for the Company	1,580	1,458	1,973	25%	35%
Adjusted Net Income	1,948	1,813	2,359	21%	30%
Gross profit margin (%)	29%	30%	32%	3%	2%
Net profit margin (%)	9%	9%	12%	3%	3%
Adjusted Net Income margin (%)	11%	11%	14%	3%	3%

GPSC's Prudent Financial Policy

GPSC's FINANCIAL POLICY

- 1 Net Debt to Equity $\leq 1.0x$
- Net Debt to EBITDA ≤ 4.0x
- Dividend Policy | Minimum dividend at the rate of not less than 30% 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)

GPSC Power Plant Portfolio (1/2)

Name	Туре	Shareholding (%)	Total capacity (MW)	Equity Power capacity (MW)	Equity Operating Power capacity (MW)	Steam (T/H)	Industrial water (Cu.m/H)	COD	Tenor
IPP									
Sriracha	IPP	GPSC (100%)	700	700	700	-	80	2000	25
Glow IPP	IPP	GLOW (95%)	713	677	677	-	-	2003	25
Huay Ho	IPP	GLOW (67%)	152	102	102	-	-	1999	30
GHECO-One	IPP	GLOW (65%)	660	429	429	-	-	2012	25
XPCL	IPP	GPSC (25%)	1285	321	321	-	-	2019	29
RPCL	IPP	GPSC (15%)	1400	210	210	-	-	2008	25
Total IPP			4,910	2,439	2,439	-	80		
SPP									
CUP-1	SPP	GPSC (100%)	226	226	226	890	720	2006	10-15
CUP-2	SPP	GPSC (100%)	113	113	113	170	510	2008	15
CUP-3	SPP	GPSC (100%)	-	-	-	280	770	2009	15
Rayong Expansion (CUP-3)	SPP	GPSC (100%)	15	15	15	-	-	2019	n/a
CUP-4	SPP	GPSC (100%)	49	49	49	140	-	2019	Long-term
Glow Energy Phase 1	SPP	GLOW (100%)	-	-	-	250	1,340	1994	-
Glow Energy Phase 2	SPP	GLOW (100%)	281	281	281	300	1,180	1996	(extension)
Glow Energy Phase 4	SPP	GLOW (100%)	77	77	77	137	2,050	2005	25
Glow Energy Phase 5	SPP	GLOW (100%)	328	328	328	160	-	2011	10-20
Glow SPP 2/ GLOW SPP 3	SPP	GLOW (100%)	513	513	513	190	150	1999	25
Glow SPP 11 Phase 1	SPP	GLOW (100%)	120	120	120	-	360	2000	25
Glow SPP 11 Phase 3	SPP	GLOW (100%)	42	42	42	-	-	2006	10-20
Glow SPP 11 Phase 2	SPP	GLOW (100%)	110	110	110	-	212	2012	25
Glow Energy CFB 3	SPP	GLOW (100%)	85	85	85	79	-	2010	10-20
IRPC-CP Phase 1	SPP	GPSC (51%)	45	23	23	86.7	-	2015	25-27
IRPC-CP Phase 2	SPP	GPSC (51%)	195	99.4	99.4	66.3	-	2017	25

Note: Equity capacity includes 100% stake in GLOW, ERU and GRP1 $\,$

GPSC Power Plant Portfolio (2/2)

Name	Type	Shareholding (%) GPSC (30%)	Total capacity (MW)	Equity Power capacity (MW)	Equity Operating Power capacity (MW) 38	Steam (T/H)	Industrial water (Cu.m/H)	COD 2016	Tenor 25
NNEG Expansion	SPP	GPSC (30%)	60	18	18	3	_	2010	21
BIC-1	SPP	GPSC (25%)	117	29.25	29.25	5	_	2013	25
BIC-2	SPP	GPSC (25%)	117	29.25	29.25	5	-	2013	25
Total SPP	<u> </u>	G. 33 (2376)	2,618	2,196	2,196	2,771	7,292		
VSPP and others									
Rayong WTE	VSPP	GPSC (100%)	9.8	9.8	-	-	-	2021	18
Glow Energy Solar Plant	VSPP	GLOW (100%)	1.55	1.55	1.55	-	-	2012	25
CHPP	VSPP	GPSC (100%)	5	5	5	-	-	2008	30
CHPP (Solar)	VSPP	GPSC (100%)	5	5	5	-	-	2016	25
ISP1	Solar	GPSC (99%)	20.8	20.59	20.59	-	-	2017	20
GRP (NPS, WXA, PPS)	VSPP	GPSC (50%)	39.5	19.75	19.75	-	-	2014-15	25
GRP1 (Solar in Taiwan) (Under closing process)	Solar	GRP (90%)	55.8	25.11	-	-	-	2016-21	20
TSR (SSE1)	VSPP	GPSC (40%)	80	32	32	-	-	2013	25
NL1PC	Hydro	GPSC (40%)	65	26	26	-	-	2019	24
Chonburi Clean Energy (CCE)	VSPP	GLOW (33%)	8.6	2.87	2.87	-	-	2019	20
Private PPA	Solar	GPSC Gr. (100%)	21.90	21.90	4.08			2018-21	Long-term
Total VSPP and other	s		313	170	127	-	-		
ERU									
ERU (under construction)	Cogen	GPSC (100%)	250	250	-	175	-	2023	25
	Total ERU		250	250	-	175	-		
Total capacity			8,091	5,055	4,762	2.946	7,372		

Note: Equity capacity includes 100% stake in GLOW, ERU and GRP1

2021 Maintenance Schedule | Sriracha and Rayong Plants

								2021						
Site	Description	Duration		Q1			Q2			Q3			Q4	
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CUP-1	GTG-13	22 Days						1	2/7 MI	2/8				
COP-1	HRSG-13	22 Days						1	2/7 3Y	2/8				
CUP-2	GTG-21	22 Days		9	MI	30								
COF-2	HRSG-21	22 Days		9	3Y	30								
CUP-4	GTG-41	5 Days											15/11	RMI 9/12
CO1 4	HRSG-41	11 Days						27/6	Y 7/7					
	HRSG#1	14 Days											15/11 3	28/11
SRC	HRSG#2	14 Days											15/11 3	28/11
SKC	Steam Turbine.10	25 Days												
	GT-11	8.33 Days											15/11 C	23/11
RDF	BMH Machine	7 Days									7	MNI 1	3	

	Notes: Rayong Site			Notes: Sriracha Site
GTG HGPI Hot Gas Path Inspection for Gas Turbine MI Major Inspection for Gas Turbine STG Minor Minor Inspection for Steam Turbine 1MO 2 nd Major Overhaul for Steam Turbine 2MO 2 nd Major Overhaul for Steam Turbine AB 1Y One Year Inspection Aux. Boiler 3Y Three Year Inspection Aux. Boiler	HRSG 14 days 1Y One Year Inspection HRSG 22 days 3Y Three Year Inspection HRSG Others 15 days 1Y One Year Inspection NG Station Test 23 days 5Y Five Year Inspection NG Station (NDT) 27 days FO Forced Outage 11 days 13 days	11 days 14 days Online Online Depending on physical damage	GTG CI Combustion Inspection for Gas Turbine HGPI Hot Gas Path Inspection for Gas Turbine days MO Major Overhaul for Gas Turbine days RCIE Rotor and Casting Inspection Evaluation days	8 daysHRSG 26 1Y One Year Inspection HRSG 8 days 3Y Three Year Inspection HRSG 33 days 33 Other 1Y One Year Inspection NG Station Test Online 49 5Y Five Year Inspection NG Station (NDT) Online FO Forced Outage Depending on physical damage

2021 Maintenance Schedule | IRPC-CP

								202	21					
Main Unit	Descripti on	Duration		Q1			Q2			Q3			Q4	
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Block 1														
CTG 21	В	20 Days				20								
HRSG 21	В	20 Days				20								
CTG 22	В	20 Days				20								
HRSG 22	В	20 Days				20								
STG 23	MI	20 Days				20								
Block 2														
CTG 31	В	20 Days					20							
HRSG 31	В	20 Days					20							
CTG 32	С	22 Days							22					
HRSG 32	С	22 Days							22					
STG 33	MI	20 Days							20					
Aux. Boiler	YI	15 Days						15						

Notes:

MI Major Inspection

YI Yearly Inspection Aux Boiler

15 days

B CTG/HRSG Inspection Level B

20 days

C CTG /HRSG Inspection Level C Excluded 1 Day maintenance

22 days

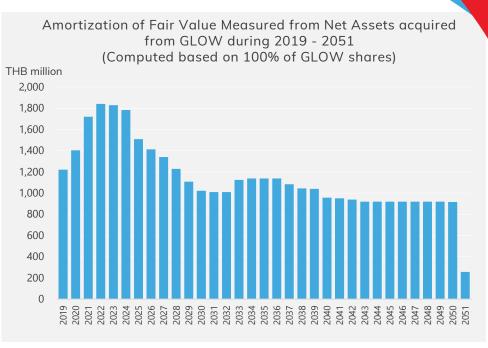
2021 Maintenance Schedule | GLOW's Main Units

								202	21					
Main Units	Description	Duration		Q1			Q2			Q3			Q4	
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
GHECO-ONE	Minor Inspection	37 Days _{1,}	/1 2Y	6/2										
GIPP: UNIT 1	Minor Inspection	5 Days									27/9	3Y 1/	10	
GIPP: UNIT 2	Minor Inspection	5 Days										10 3Y	14	
CFB 3	Minor Inspection	7 Days				22/4	3Y 1	2/5						
Phase 5	Minor Inspection	5 Days			29/3	1.25 2/4								
GSPP11 (Plant 2)	Minor Inspection	14 Days							18 3Y	31				
GSPP11 (Plant 2)	Major Inspection	5 Days										10 5.7Y	14	

Fair Value Measurement of Net Assets from Acquisition of Glow

unit: THB m	nillion
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Items	Book Value of GLOW	Fair Value of GLOW	Differential Value
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
Non-Controlling interests at 30.89%		(32,092)	
Total Net Asset obtained GLOW at 69.11%		56,911	
Goodwill		36,090	
Proportion of acquisition cost 69.11%		93,001	



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 follows:

- 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.



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