

August 13, 2021





Feedback survey



- 1. Highlight in 2021
- 2. GPSC Corporate Strategy
- 3. Financial Performance
- 4. Update of Projects
- 5. Outlook



# 1. Highlight in 2021

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# **GPSC** Achievement (YTD)



#### Solar Power Platform in India



Contracted Capacity | 4,560 MW

(+816 MW from announcement date 13-Jul-2021)



GPSC Hold | 41.6% of shares

Increased 1,897 MW equity capacity to our portfolio



#### Offshore wind in Taiwan



Contracted Capacity | 595 MW



GPSC Hold | 25% of shares

Increased 148.75 MW equity capacity to our portfolio

# Project COD and Closing in 1H/2021



Energy Storage Unit 30 MWh p.a.

Start of regular production in Jun-2021

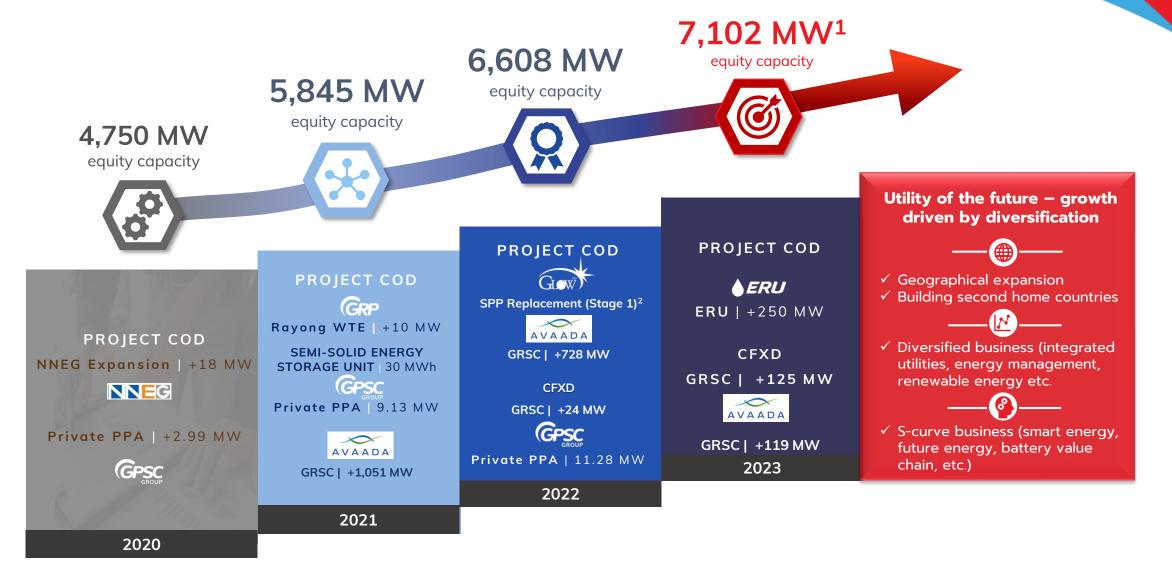


Rayong Waste to Energy Project COD on 28 May 2021



Solar projects of 25 MW in Taiwan Revenue recognition since 28 May 2021

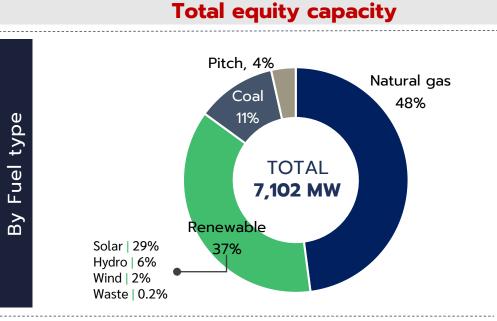
# **GPSC** | Electricity Growth Pipeline

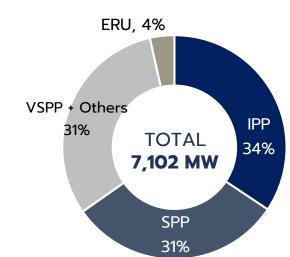


Notes: 1. Maintain original capacity of Glow Cogeneration plants

2. SPP Replacement Stage 1: Glow Energy Phase 2 (new plant with 2 PPAs with EGAT, total capacity of 192 MW electricity and 300 T/h steam, SCOD in 2022; and

# **GPSC's Current business portfolio**





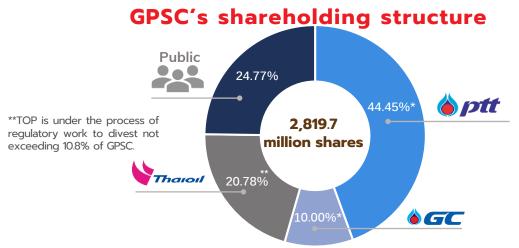
Plant type

## **Customer portfolio & services**

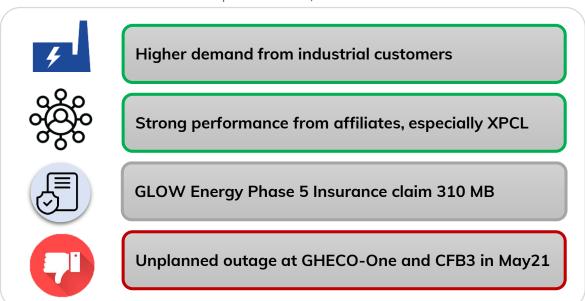




#### Q2/21 Events & Highlights



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



#### **Q2/21 Performance Gross profit & Gross profit margin** by power plant type **Gross profit** 32% 31% 31% 30% 30% margin **Gross profit** 11,014 10,825 YoY QoQ 3% 2% **VSPP & others v** 3% **▲** 3% 70% SPP 76% 5,486 5,650 5,339 4% 1% 2% YoY 69% 73% 80% **4** 3% 27% IPP 22% 27% 25% 19% Q2/20 Q2/21 Q1/21 6M20 6M21 Unit: THB MM **Net Income** YoY QoQ YoY 4,276 **▲**21% **▲**17% **▲**23% 3,476 2,302 1,973 1.896 Q2/21 Q1/21 Q2/21 6M20 6M21 Unit: THB MM

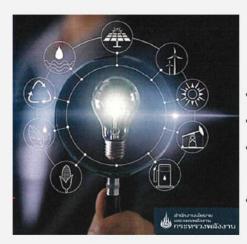
1. Highlight in 2021

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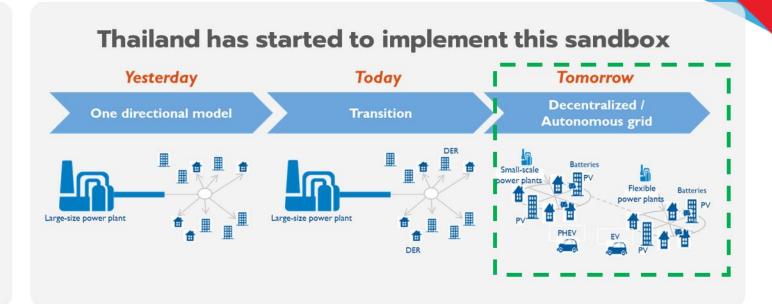


# Corporate Strategy 2021 | Background



#### **PDP 2022**

- COVID-19 impact
- · High reserve margin
- New demand (EV, EEC, HST, 5G)
- · LNG liberalization



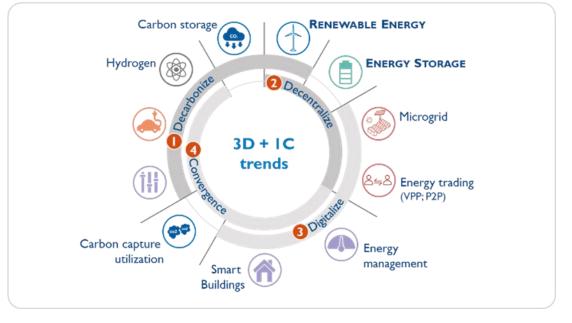
#### COP26



The UK will host the 26th UN Climate Change Conference of the Parties (COP26) at the Scottish Event Campus (SEC) in Glasgow on 31 October – 12 November 2021.

The climate talks will bring together heads of state, climate experts and campaigners to agree coordinated action to tackle climate change.

As COP26 Presidency, the UK is committed to working with all countries and joining forces with civil society, companies and people on the frontline of climate change to inspire action ahead of COP26.



# **GPSC** | Corporate Strategy 2021: Strategic house (2021 – 2030)

#### Vision



The global leading innovative and sustainable power company

**Aspiration** 

To be top 3 power company in Southeast Asia with more than half of MW from green portfolio

Mission

To be a PTT GROUP power and smart energy flagship that innovatively pursue operational excellence to create value for stakeholders by delivering reliable products to customers with responsibility to the planet

Strategic **Objectives** 

**Strategic** 

**Pillars** 

Retain existing customers and expand core offerings to new customers

Embrace energy transition, sustainability and convergence trends to offer new solutions

Develop competitive advantages in core and new businesses

Become a regional player by diversifying geographic focus to tap into fast growing power markets

SI



Strengthen and expand the

- Core Best in class operations
- Customer-centric utility
- Expansion into adjacencies (e.g., water)



Solar power scale-up

- Wind power scale-up
- ESS-RE hybrid power entry



S-curve & Batteries

- Energy storage systems
- **EV & Mobility batteries**
- New S-Curves





**Shift to Customer-centric Solutions** 

Geography



**Thailand** 



India



**Vietnam** 



**Taiwan** 

**Enablers** 



**Partnerships** 







**Sustainability** 



**Agile & Resilient Organization** 



# Strengthen and expand the Core | Operational Excellence

# 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 lob Safety Analysis
- Introduce "Hold Point" in Permit to Work
- Standardize Behavioral Based Safety KPIs across all plants

- GPSC-Glow Inter-connection (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 Inter-connection (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 Closing
- Incident Management Process (P-D-C-A)
- Quality RCA
- **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







# Strengthen and expand the Core | Operational Excellence

# **Operational Excellence (OpEx) Roadmap**

Phase 1: 2021-2022

Launch



**Phase 2:** 2022-2023

**Embed and refine** 



Phase 3: 2023-2025

**Continuous improvement** 





- Roll out OpEx enhancement strategy with focus on reliability
- Conduct detailed benchmarking (3<sup>rd</sup> party)
- Set up OpEx unit

- Monitor and track initiatives progress
- Codify and share best practices
- Implement end stage operations org.
- Ensure people at all levels are coaches and drivers of continuous improvement
- Ensure OpEx is deeply embedded in all parts of the organization(s)

# Strengthen and expand the Core | Customer-centric utility

Expansion into adjacencies

Becoming a customer centric utility player will enable GPSC to become a competitive player by retaining existing and grow new customers



- Apply strategy, techniques and technologies to understand unmet customer needs
- Retain and grow share of wallet of existing customers, and acquire new customers









- Identifying customer pain points, unmet needs and how to address them optimally
- Use digital tools to enable info. transparency and drive engagement with customers

# Solutions focused

- Product is commoditized, but knowledge and value-added offerings can be a differentiator
- E.g., energy analytics, energy optimization & management

# Organizational changes

■ Independent key account management (KAM) teams to maintain and improve long-term customer relationships

**Expansion into adjacencies** by capturing new customers as well as expand services to capture greater share of wallet of existing customer

# Scale-up Green energy | Scale-up Solar & Wind | ESS-RE hybrid power entry



Establish local base



# More focusing on platform growth

Build and maintain local relationships



Separate organization structure



Build on ground capabilities



#### Solar power scale-up

- Become a developer and operator of solar IPP assets in Thailand and target markets
- Selectively participate in EPC for solar floating assets in Thailand

#### Wind power scale-up

 Achieve scale by becoming developer and operator of wind assets in target markets

## **ESS-RE** hybrid power entry

Become a developer and operator of RE hybrid plants to increase power system efficiency and ensure a greater balance in energy supply

**S-curve & Batteries** | Energy storage systems EV & Mobility batteries New S-Curves

# GPSC will take lead in new S-Curve ventures pertaining to Renewables, Batteries and Digital power businesses



- Scale-up and Spin-out battery operations
- Build ESS and non-EV mobility battery business with current technology
- Enter EV battery business with additional partners

- Seek opportunistic investments and strategic partnerships with startups
- Devise business and commercial offering for Virtual Power Plant (VPP), P2P
- Propose trials with C&I clients e.g., MTP area

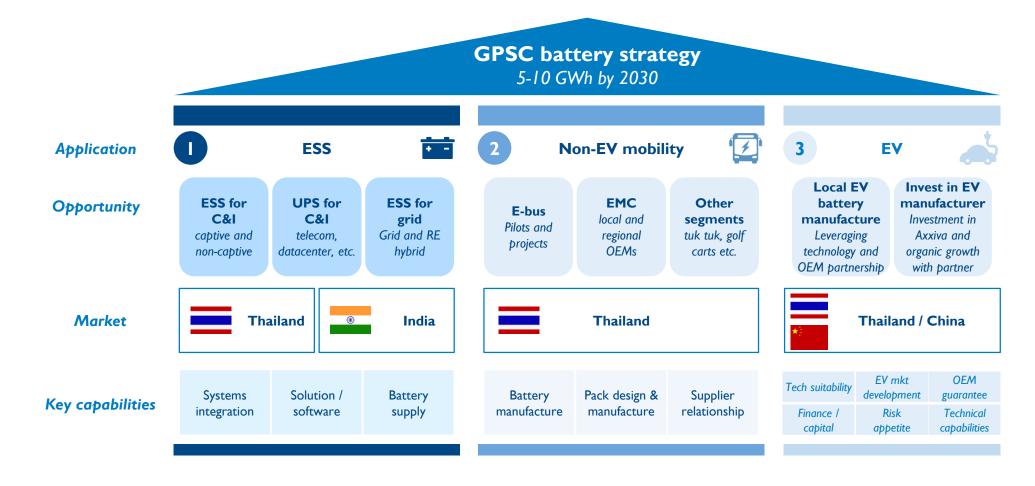
# S-curve & Batteries | Energy storage systems

Energy storage systems

EV & Mobility batteries

New S-Curves

GPSC battery strategy focuses on 3 key pillars – ESS and Non-EV mobility will be main focus while EV pursued based on certain conditions



# Shift to customer-centric solutions



#### **Distributed generation**

- Provide captive renewable power through distributed generation solutions (rooftop solar, microgrids etc.) to C&I customers
- Offer full range of installation and O&M incl. monitoring services
- Bundle with BTM ESS to enhance reliability and maximize RE power consumption

#### **District cooling**

- Provide turnkey district cooling development, operations and maintenance solutions
- Offer diverse selections of cooling systems suitable for different customers

#### **Energy Management services**

- Provide all-round energy support, incl. energy audits & digital tools
  - e.g., Energy audits, real-time energy monitoring, remote mgmt. of C&H, energy efficiency equipment supply etc.
- Bundle EMS with distributed generation& district cooling offerings

# Shift to Customer-centric Solutions | Distributed generation

Distributed generation

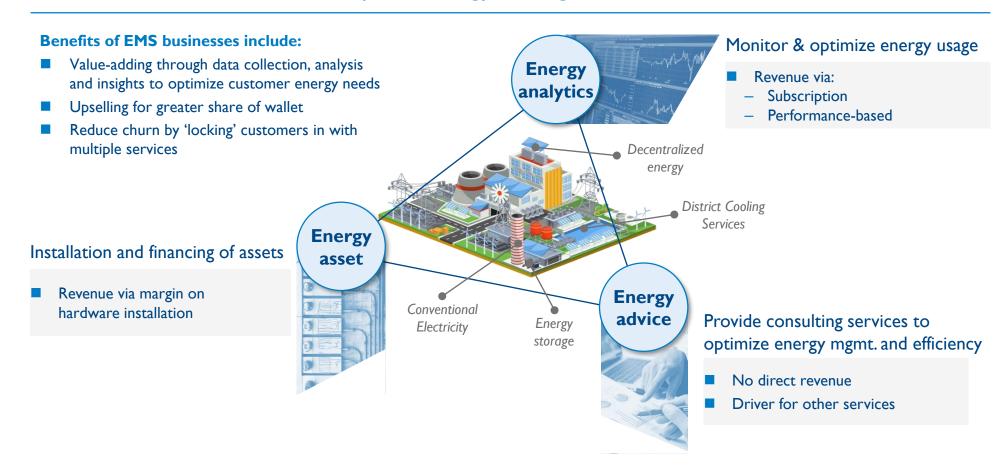
District cooling

Energy Management services (EMS)

"EMS shows attractive profit margin and has customer synergy with current CHPP's decentralized energy services"

# Concept of Energy Management services

**ILLUSTRATIVE** 



- 1. Highlight in 2021
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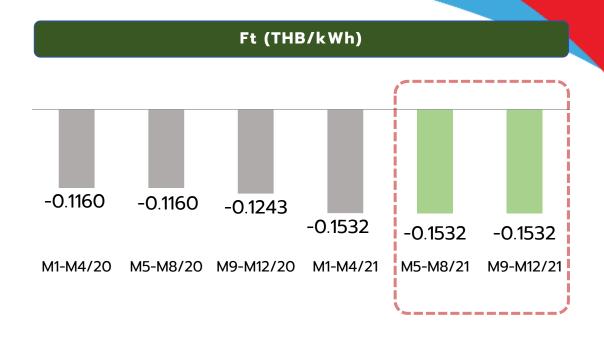
# 3. Financial Performance

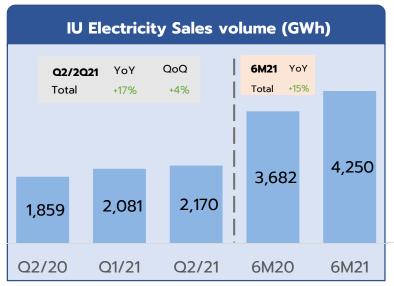
- 4. Update of Projects
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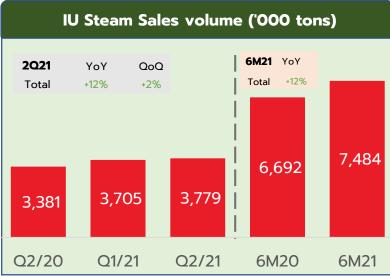


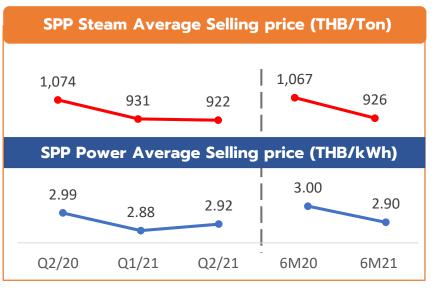
# Q2/2021 Key Drivers





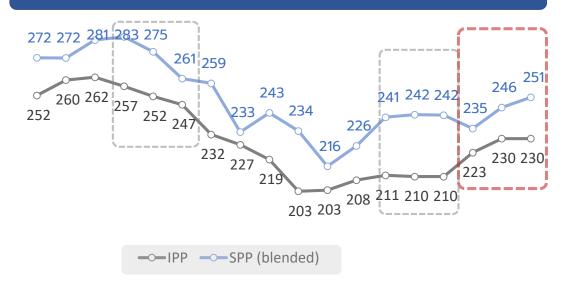






# Q2/2021 Key Drivers

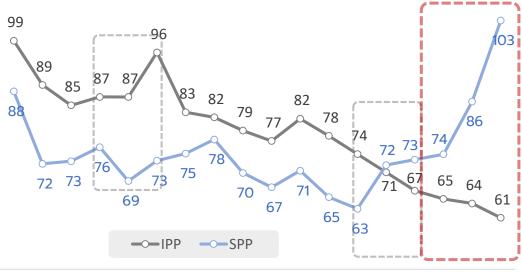
#### Natural Gas Cost 2020 - Q2'2021 (THB/MMBTU)



24120 25120 45120 44120 46120 46120 41120 48120 48120 48120 48120 48120 4812 48121 48121 48121 48121

IPP's Availability	Q2/20	Q1/21	Q2/21	Chang	e +/(-)	6M20	6M21	Change +/(-)
Rate (%)				YoY	QoQ			YoY
Sriracha	100%	99.80%	100%	0%	0%	100%	100%	0%
GIPP	100%	76%	100%	0%	23%	100%	88%	(12%)
GHECO- One	99%	59%	76%	(23%)	17%	98%	68%	(30%)

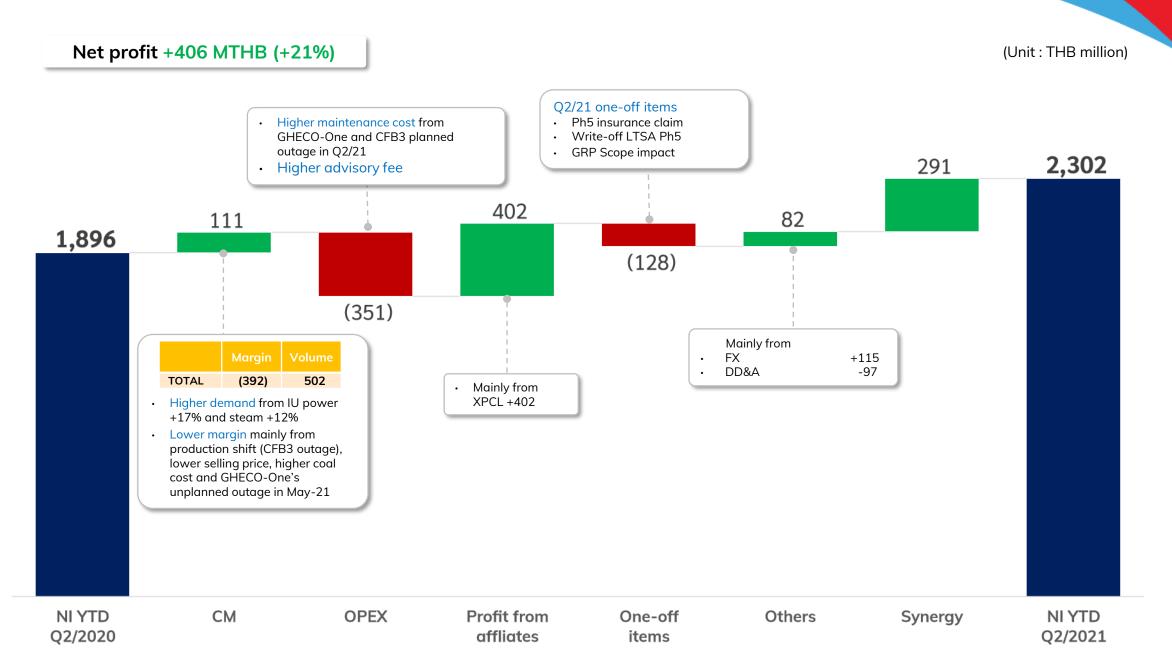
#### Coal Cost 2020 - Q2'2021 (USD/Ton JPU)



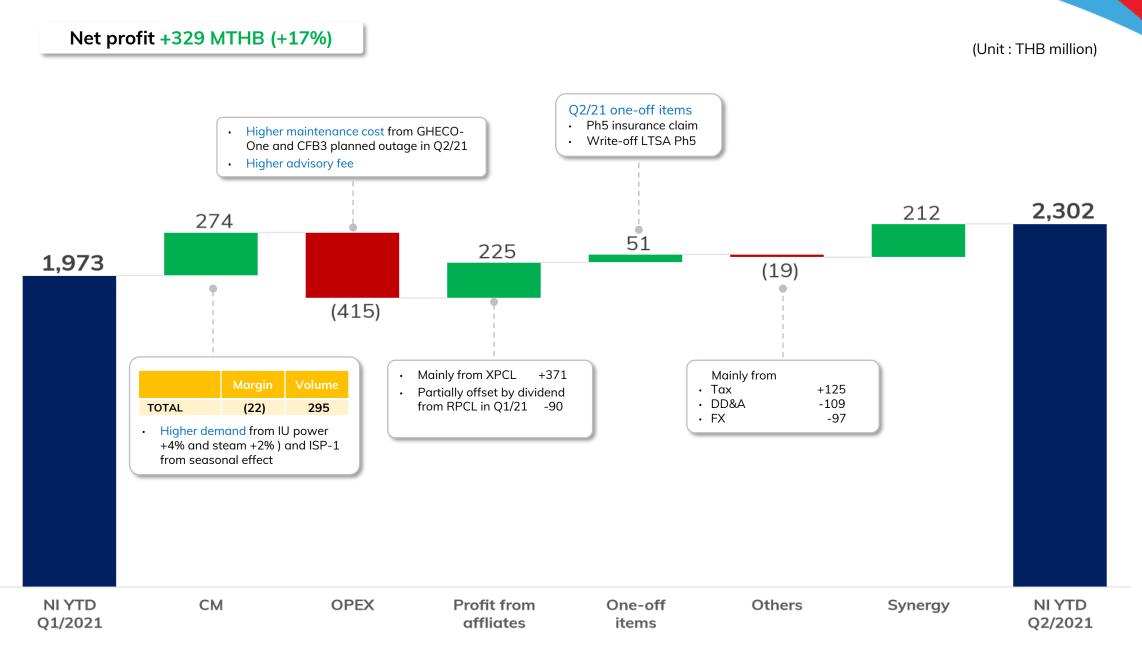
m120 m2120 m3120 m4120 m4120 m4120 m4120 m4120 m4120 m4120 m4120 m120 m121 m312 m312 m412 m412 m412

End-month FX (THB/USD)										
Apr20	32.55	Jan21	30.17	Apr21	31.37					
May20	32.02	Feb21	30.17	May21	31.44					
Jun20	31.07	Mar21	31.51	Jun21	32.22					
Avg.	31.88		30.62		31.68					
Avg.	6M20	31.92								
Avg.	6M21	31.15								

# Q2/2021 vs Q2/2020 (YoY) Net Profit

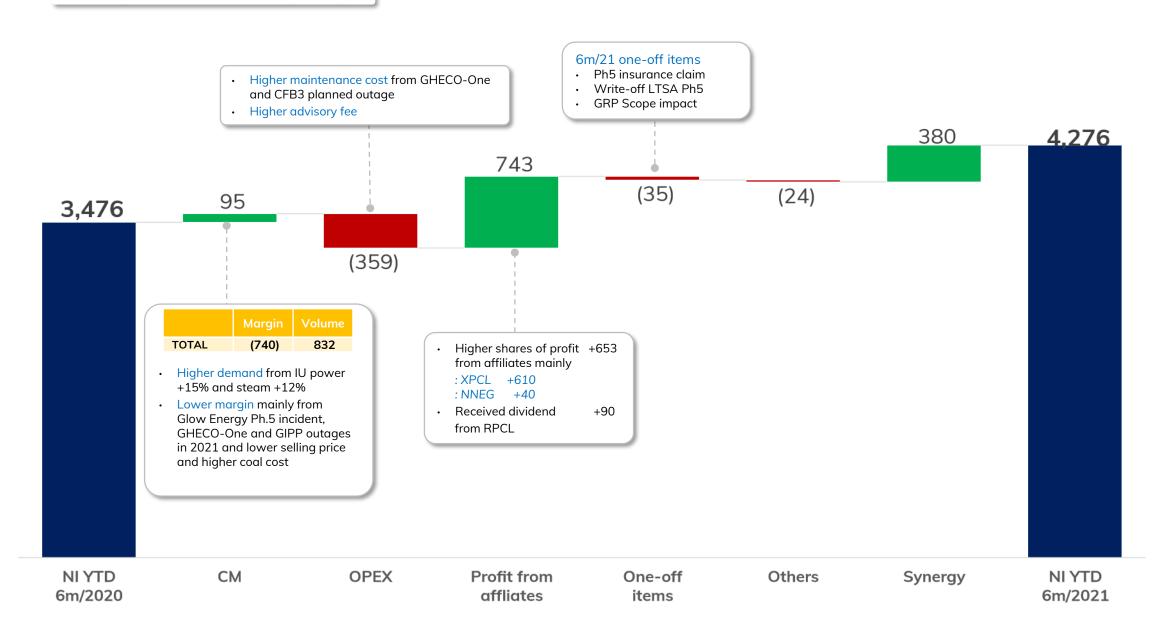


# Q2/2021 vs Q1/2021 (QoQ) Net Profit



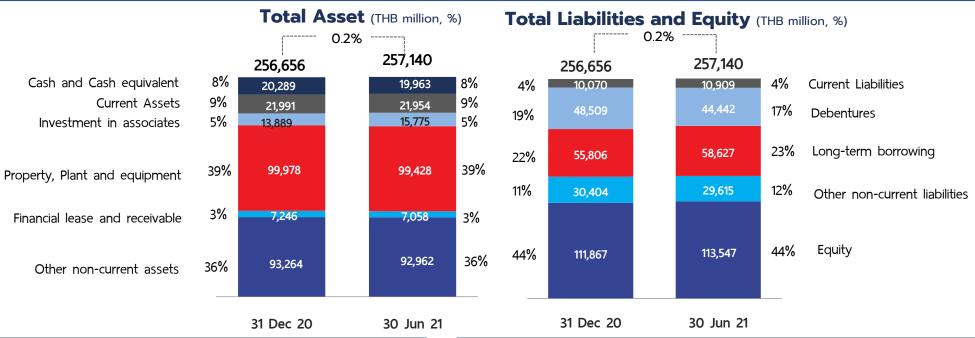
# 6M2O21 vs 6M2O2O (YoY) Net Profit

**Net profit +800 MTHB (+23%)** 



# Q2/2021 Operating Results (QoQ)

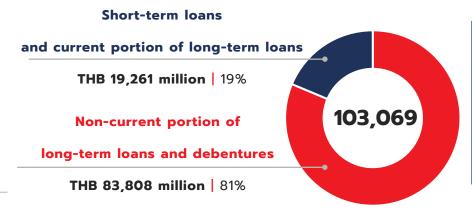
# **Summary of Financial Position**



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

# Total Debt to Equity 1.30x 1.26x 1.26x 0.78x 0.70x 0.70x

#### **Total Interest-Bearing Debt (THB million)**



#### As of Q2/2021:

- Avg. cost of debt: **3.06%**
- Avg. remaining tenor: 5.2 years

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# **Update of Projects**

# SCOD | 2023

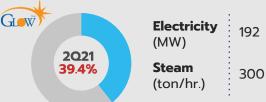


#### **Project updates:**

- Engineering design work: 98% progress
- Under construction: Major Equipment Foundation of CFB Boiler Stack, Pitch Solidification and Cooling Tower.
- Overall, the project has reached 68.6% which is on schedule and expect to COD in the year 2023.

#### **SPP Replacement - Stage 1 | Glow Energy Phase 2**





#### **Project updates:**

The engineering design work, procurement and construction progress has been reached at 39.4% and on processing of foundation work for gas turbine, HRSG and Pipe Rack.

# **Update of Projects**

#### **Avaada: Solar Power Platform in India**





Contracted Capacity 4,560 MW

GPSC Hold
41.6% of shares

Project	MW	COD		
<b>Operating</b> (14 projects)	1,500 Mar 2018 July 202			
Under construction (13 projects)	3,060	2021-2022		

#### **CFXD**: Offshore wind in Taiwan





Contracted Capacity 595 MW

GPSC Hold 25% of shares

#### **Project Status**

• Phase 1:96 MW, first power in 2022

Phase 2: 499 MW, first power in 2023

The project is expected to start full COD in the Q1/2024

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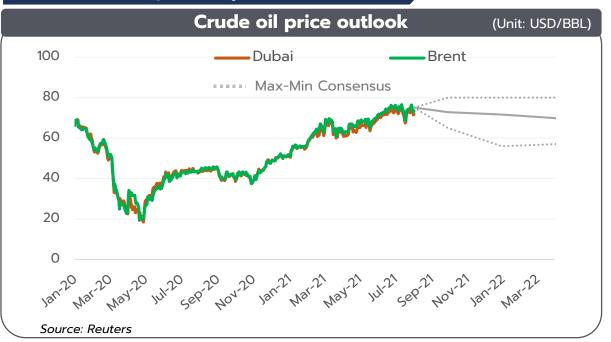


# 2021 Outlook

#### **Performance Outlook**

- ▲ Synergy value from acquisition of GLOW is expected to be THB [>900] million (after tax) in 2021.
- ▲ **Demand of electricity and steam** of IU increased by 4.5% YoY, approximately.
- ▲ Recognized operating results of **investment in Avaada** from Q3/2021 onwards.
- ▼ In 2H/2021, average gas and coal price are expected to be higher from 1H/2021.

#### **Key assumptions**



#### **Natural Gas & Coal price**

- Natural gas price is forecasted to increase slightly in the same direction with crude oil with lag time 6 12 months.
  - NG price continues to increase at year-end 2021.
- When compared to Q2/21, Blended gas cost of SPP portfolio is expected 10% increase at year-end.

#### Coal price

- When compared to Q2/21, coal price increased by 30% at year-end 2021.
- Coal price range is expected about US\$ 130-140 per ton (NewCastle) at year-end.

# **Q&A SESSION**

#### **IR Contact:**

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Feedback survey





**Appendix** 

# **GPSC** | Sustainability Management Framework





Remark:

SDGs: The UN's Sustainable Development Goals

# **GPSC** Net Zero Framework

#### Moving towards Low Carbon Utilities by Reducing Carbon Equivalent Intensity 35% by 2030

#### The route to net zero for utilities

#### INTERNAL **EXTERNAL Reduce fossil Enhance** Grow Trading / fuel usage renewables infrastructure **Offsets** Adopt best practice Execute the growth FSS with renewable Study carbon strategy as planned by operational energy generation credits, emissions excellence support and EMS trading schemes, Develop solar and shadow carbon Retrofit wind power plants Implement digital pricing, etc. transformation non-renewable Integrate distributed power plants, etc. solar and Switch to Study and adopt CCUS, etc. microgrid, etc. Renewable Energy **GPSC** Conventional Energy

Note: ESS: Energy Storage System

EMS: Energy Management System

CCUS: Carbon Capture, Utilization and Storage

# **Q2/2021 Operating Results**

Overall operating results of the Company and its subsidiaries	Q2/20	Q1/21	Q2/21	change	change +/(-) 6M/20		6M/21	change +/(-)
(unit: THB million)				YoY	QoQ			YoY
Operating revenue	18,138	16,624	18,234	1%	10%	36,446	34,858	(4%)
Cost of sales (excluding depreciation and amortization)	(12,488)	(11,285)	(12,748)	2%	13%	(25,432)	(24,033)	(6%)
Gross profit	5,650	5,339	5,486	(3%)	3%	11,014	10,825	(2%)
Selling and administrative expenses	(437)	(434)	(516)	18%	19%	(855)	(950)	11%
Other operating income	5	5	5	1%	(6%)	10	10	5%
EBITDA	5,218	4,910	4,975	(5%)	1%	10,169	9,885	(3%)
Depreciation and amortization	(2,098)	(2,053)	(2,172)	4%	6%	(4,172)	(4,226)	1%
EBIT	3,120	2,856	2,803	(10%)	(2%)	5,997	5,659	(6%)
Finance costs	(991)	(974)	(987)	(0%)	1%	(2,032)	(1,961)	(4%)
Other non-operating income and expenses	335	264	512	53%	94%	511	775	52%
Dividend received and shares of profit of associates	113	297	522	362%	76%	42	819	1,850%
and joint ventures	113	231	522	30270	7070	7∠	015	1,03070
Income tax expenses	(284)	(453)	(348)	22%	(23%)	(537)	(800)	49%
Profit before FX and extraordinary items	2,293	1,990	2,502	9%	26%	3,981	4,492	13%
Net foreign exchange gain (loss)	(5)	2	(68)	1,261%	(3,770%)	(35)	(66)	89%
Net profit	2,288	1,992	2,434	6%	22%	3,946	4,426	12%
Non-controlling interests	(392)	(19)	(132)	(66%)	603%	(470)	(150)	(68%)
Net profit for the Company	1.896	1.973	2.302	21%	17%_	<u>3,476</u>	4,276	23%
Adjusted Net Income <sup>1</sup>	2,264	2,359	2,720	20%	15%	4,212	5,079	21%
Gross profit margin (%)	31%	32%	30%	(1%)	(2%)	30%	31%	1%
Net profit margin (%)	10%	12%	13%	2%	1%	11%	12%	3%
Adjusted Net Income margin (%)	12%	14%	15%	2%	1%	12%	15%	3%

# **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
NNEG	SPP	GPSC (30%)	125	38	38	9	-	2016	25
NNEG Expansion	SPP	GPSC (30%)	60	18	18	3	-	2020	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	-	2017	25
Total SPP			2,618	2,196	2,196	2,771	7,292		

# **GPSC Power Plant Portfolio (2/2)**

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
VSPP and others									
Rayong WTE	VSPP	GPSC (100%)	9.8	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 (Sheng Yang)	Solar	GPSC (45%)	55.8	25.11	25.11	-	-	2016-21	20
Avaada (Solar Power Platform)	Solar	GPSC (41.6%)	4,560	1,897	624			2018-23	15-25
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
CFXD (Offshore wind farm)	Wind	GPSC (25%)	595	149	-	-	-	2022-24	20
Private PPA	Solar	GPSC Gr. (100%)	23.40	23.40	2.99			2018-21	Long-term
Total VSPP and others			5,469	2,217	750	-	-		
ERU									
ERU (under construction)	Cogen	GPSC (100%)	250	250	-	175	-	2023	25
	Total ERU		250	250	-	175	-		
Total capacity			13,247	7,102	5,385	2.946	7,372		

#### Note:

- Total committed equity capacity as of 13 Aug 2021.
  Equity capacity includes 100% stake in GLOW, CFXD, Private PPA and ERU.

# 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
	GTG-13	27 Days						12/	7 <b>MI</b>	2/8	17/	10 <b>1Y</b>	22/10	
CUP-1	HRSG-13	22 Days												
	GTG-12	20 Days									16/9 <b>F</b>	<b>SCIE</b> 5/10		
	GTG-16	3 Days					1,	/6 <b>1Y</b>	3/6					
	GTG-14	5 Days									17	/10 <b>1Y</b>	22/10	
CUP-2	GTG-21	29 Days			2/3 <b>MI</b>	31/3		12/	7 <b>MI</b>	2/8				
001 2	HRSG-21	29 Days			2/3 <b>3Y</b>	30/3		12/	7 <b>3Y</b>	2/8				
	GTG-22	5 Days						26/	7 <b>1</b> Y	28/7				
CUP-4	GTG-41	5 Days											29/12	RMI 2/
001 4	HRSG-41	11 Days						27/6 <b>1Y</b>	7/7					
	HRSG#1	14 Days										15/11	<b>3Y</b> 28/11	
SRC	HRSG#2	14 Days										15/11	<b>3Y</b> 28/11	
SKC	Steam Turbine.10	25 Days										15/1	1 <b>CI</b> 23/11	l
	GT-11	8.33 Days									7 MNI	13		
RDF	BMH Machine	7 Days												

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 <sup>nd</sup> Major Overhaul for Steam Turbine 2MO 2 <sup>nd</sup> Major Overhaul for Steam Turbine 2MO 2nd Major Overhaul for Steam Turbine AB 1Y One Year Inspection NG Station (ND) 27 days 37 Three Year Inspection Aux. Boiler 11 days 38 Three Year Inspection Aux. Boiler 11 days 13 days	

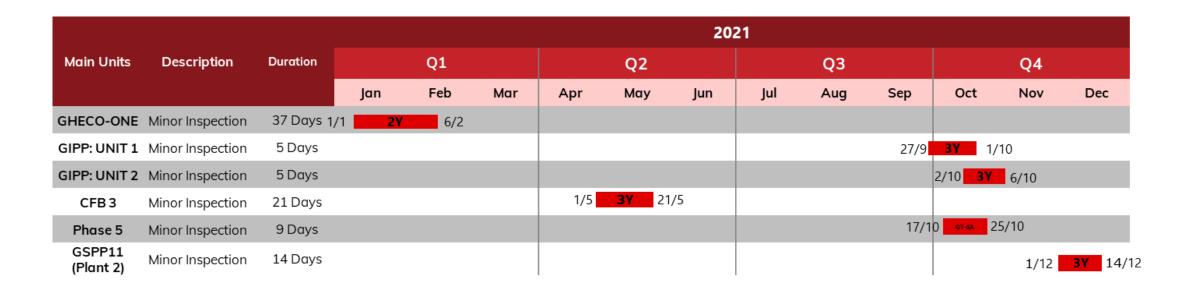
# 2021 Maintenance Schedule | IRPC-CP

								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
- Boiler 15 days
- B CTG/HRSG Inspection Level B
- C CTG /HRSG Inspection Level C Excluded 1 Day maintenance
- 20 days
- 22 days

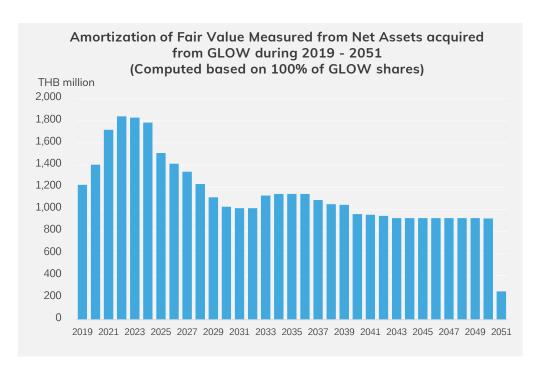
# **2021 Maintenance Schedule** | GLOW's Main Units



#### Fair Value Measurement of Net Assets from Acquisition of Glow

unit: THB million

		a.n.c	TIB IIIIIIIIII
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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