





## 2017 Highlights / 2018 Business Plan



**Investment in Affiliates** 



**Financial Performance** 

## Significant events in 2017



#### Investment

**24m** 

Geared up the investment in 24M by cooperating with US firm's technology to produce and distribute Lithium-Ion batteries in ASEAN



Signed MOU with NNCL to develop the Solar Rooftop, Energy Storage System and Smart Grid project in Nava Nakorn industrial zone



Planned to build a **pilot project** of **lithium-ion battery** and to become **system integrator** by beginning with **Nava Nakorn industrial estate** and installation of solar rooftop to industrial users under **PTT group** and in Eastern Economic Corridor **(EEC)** 



#### **Operation**

Bangpa-In Cogeneration Company Limited Phase 2 (BIC2) started COD and supplied electricity to EGAT with total capacity of 117 MW of electricity and 20 tons/hour of steam.

**IRPC Clean Power Company Limited Phase2 (IRPC-CP)** started COD and supplied electricity to EGAT with total capacity of 240 MW for electricity and 180-300 tons/hour of steam.

Ichinoseki Solar Power1 G.K. (ISP1) started COD and supplied electricity to Tohoku Electric Power Co,Inc with total of 20.8 MW at FiT of 40 JPY per KWh for term of 20 years.









#### **Awards**

Granted 3 awards from the 7th Asian Excellence Award 2017 for Asia's Best CEO Award, Best Investor Relations Company and Best Environmental Responsibility.

Selected to include in **Thailand Sustainability Investment (THSI)**among other 65 listed companies by SET.

Selected to include in **ESG100** from Thaipat Institute as a company who transparently and fairly discloses information to the public.







#### **Financing**

Final dividend payment from the second half of 2017 operating result for **0.80** Baht per share.

**Annual dividend payment from 2017** operating results for **1.25** Baht per share.

**First debentures issuance** for **Baht 5,000 million** to institutional and major investors that resulted in the decrease in cost of fund of the company by 1%.



## **4Q 2017 Highlights**

## GROWTH Robust growth in pipeline with new growth opportunities

- ♦ IRPC-CP Phase 2 and Ichinoseki Solar Power (ISP1) in Japan started to COD in Q4/17 and supplied electricity to EGAT and Tohoku Electric Power Japan.
- GPSC signed contract agreement with NNCL in solar rooftop and smart grid development project in Nava Nakorn industrial zone.
- ♦ GPSC has planned to build a pilot project of lithium-ion battery to become **Energy Storage System Integrator**.

## SUSTAINABILITY Selected to include in THSI 2017 by SET

- ♦ **GPSC** is selected to include in Thailand Sustainability Investment (THSI) by the Stock Exchange of Thailand (SET) in 2017.
- ♦ Responsibility towards the environmental, social and governance, simultaneously with the creation of economic returns to ensure sustainable growth and the efficiency in managing the supply chain risks.



# GROWING PROFIT WITH SUSTAINABILITY AND CONTROL



## PROFIT 72% Increase in Net profit YoY

- ♦ GPSC's Q4/17 net profit of THB 722 million increased by THB 303 million YoY thanks to the rise in Ft rate, and higher demand from customers at Rayong Plant, and the COD of IRPC-CP for both phases in Q4/17.
- ♦ **2017 net profit of THB 3,175 million** increased by THB 475 million or 18% resulted from the rise in sales volume at Rayong Plant and IRPC-CP. Also, higher share of profits from NNEG and BIC2.



#### CONTROL

3 Projects in progress meet milestone as planned

- ♦ Nam Lik1, Xayaburi and CUP4 which are under construction are expected to COD within 2019.
- All the projects are closely monitored to meet the milestones.



## **Strategic Growth: 3 Growth Engines between 2018-2022**

#### **Thailand as Priority**



- Focus in MAPTAPHUT and EEC
- Be PTT Group's power supplier of choice
- Contribute to strategic priorities across the PTT group
- Increase new customers in Thailand

#### **International Business**



"Focus Countries"

## Go into country where we can play multiple fuel to avoid risk.

- Myanmar and Laos
- Enhance country knowledge and relationship
- Strategic partners
- Conventional and renewable energies

#### **Future Energy**



- Forefront of innovation in energy sector
- Leverage IP technology license partnership
- Leverage existing investments, and PTT's asset base to deploy new technologies
- **EEC** as priority area
- Smart grids for smart cities

#### **Action Plan 2018-2019**

#### PTT Group Power Flagship

- ✓ Target new customers from industrial customers under PTT Group
- ✓ Expand through PTT Group expansion
  - PTTGC: LLDPE2, PO/POL, MCC

#### Develop Power Plant Project

- ✓ Myanmar
  - Industrial users
  - Gas to power
- ✓ Laos
  - Hydro power plant

#### Energy Storage System Integrator

- ✓ First 100MWh battery pilot project targeted to COD within 2019
- ✓ Development of system integrator position



#### **2018 Business Plan**

#### **MAXIMIZE**



Productivity improvement through OEMS implementation

#### **MOVE**



3M Strategy through Digitization

500 MW Target growth with green portfolio 30% of total capacity

#### **Rayong CUP 1-3 Power Plant**

- Productivity improvement initiatives to increase contribution margin of THB 100 million within Y2018
- Maximize Reliability 99.99%, Efficiency 65.1%, and Safety

#### **Sriracha IPP Power Plant**

 Prefer to operate with "Reserved shutdown scenarios" for best profitability

#### **MANAGE**



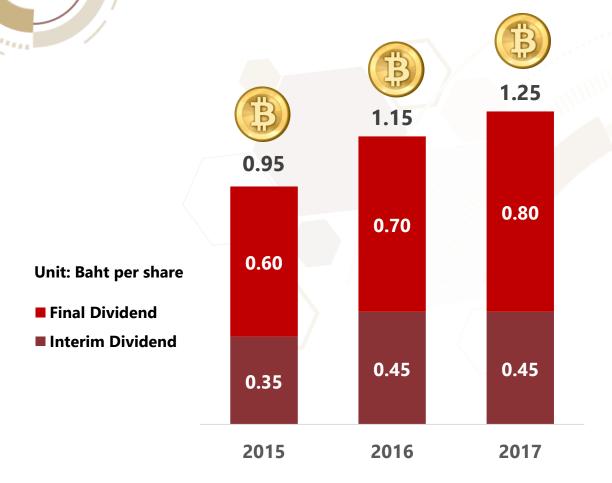
Asset management strategic framework 2018

- Set target for CHPP to install solar rooftop 10 MW for PTT Group
- Implement dashboard platforms (JVs & Subsidiary)
- Ensure that JVs & Subsidiary's performance on target
- Control 3 projects under construction to meet schedule; Nam Lik, XPCL and CUP-4

- Operate business to fulfill PTT Group's demand both domestic and international base on PTT Group's investment plan
- Be PTT Group Power Flagship to develop utility project to support **EEC and EECi** to be a hub of innovation and technology of Thailand
- Develop low cost battery manufacturing plant with standardized quality and environmentally friendly that is capable to compete with market.
- Develop ESS pilot project by collecting data from **solar rooftop and ESS** that will be used for further development
- Develop solar rooftop business in industrial estate, village, college etc.
- Develop power plant project in Laos and potential industrial estate in Myanmar



## 2017 dividend payout ratio is 59% of FY2017 net income



- On 12 February 2018, BOD passed a resolution for the payment of dividend for 2017 at Baht 1.25 per share which is higher than 2016 dividend, resulting from the better operating results.
- The dividend per share for 2H/17 is
   0.80 Baht
- The Record Date will be on 28 February
   2018 for the right to receive the dividend.
- The dividend payment date will be on 20 April 2018 after obtaining approval from 2018 AGM.
- Dividend Policy:
   Minimum of 30% of net income
   according to a financial statement, after
   deductions of tax, reserve capital
   requirement (with additional conditions)





## 2017 Highlights / 2018 Business Plan



## **Investment in Affiliates**



## **Financial Performance**



## Nam Lik 1 Power Company Limited (Lao PDR)



Type:

Run-of-River Hydropower Electricity:

**65 MW** 

SCOD:

Q1 2019

**Equity Investment:** 

**37 M USD** 

Progress Q3/2017:

66%

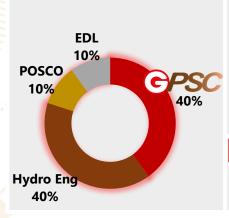
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Progress YE2017:

**76%** 

Shareholding:



#### Progress Update:

• Construction progress of the project as appraised by technical advisor was 76.0 %, more than the plan at 73.2 %. When comparing with the end of Q3/17 at 66 %, in which about 10% increased as the main activities including construction of power house, 115 kV transmission line and reservoir clearing were able to continue after wet season.

#### **Customer:**

• Electricity: EDL 63.8 MW (30 years PPA)





## **Xayaburi Power Company Limited (Xayaburi, Lao PDR)**





#### Type:

SCOD

2019

Run-of-River Hydropower

**Total Investment:** 

136,751 MB

Progress Q3/2017:

84%

**Electricity:** 

1,285 MW

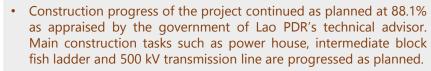
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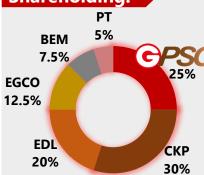
3:1

**Progress YE2017:** 

88%

### **Shareholding:** Progress Update:





#### **Customer:**

- Electricity: EGAT 1,220 MW
- EDL 60 MW





## **PSC** Map Ta Phut Expansion Project (Rayong)

## Grow with PTT: Be PTT Group's Power in Petrochemical Complex



#### Type:

Cogeneration

## COD:

2006-2009



#### **Shareholding:**



#### Capacity:

#### CUP-1

- Electricity: 226 MW
- Steam: 890 T/h
- Industrial water: 720 Cu.m/h

#### CUP-2

- Electricity: 113 MW
- Steam 170 T/h
- Industrial water: 510 Cu.m/h

#### CUP-3

- Steam: 280 T/h
- Industrial water: 770

Cu.m/h

#### **Contract:**

- CUP-1: 10-15 years
- CUP-2: 15 years ++
- CUP-3: 15 years ++

#### **Customer:**

- PTT Group
- Non-PTT Group industrial customers
- EGAT







## Central Utility Plant 4 (CUP4)



Type:

**Cogeneration** 

SCOD:

2019

**Electricity: 45 MW** 

**Progress Q3/2017:** 

**17%** 

**Steam:** 

70 T/h

**Progress YE2017:** 

19%

3,980 MB

**Total Investment:** 

#### **Shareholding:**



#### **Progress Update:**

- In order to increase system's reliability and stability, the project is now in the design process of connecting CUP-4 with CUP-3 existing operation system.
- Currently, some of customers have signed PPA while new customers is under negotiation process.
- At the end of 2017, Main EPC has been awarded. Detail engineering design and equipment specification approval are on progress.

#### **Customer:**

- PTT Group
- Non-PTT Group Industrial Customers
- EGAT







## 2017 Highlights / 2018 Business Plan



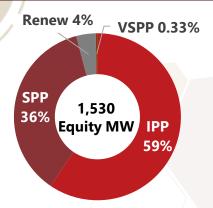
## **Investment in Affiliates**



## **Financial Performance**

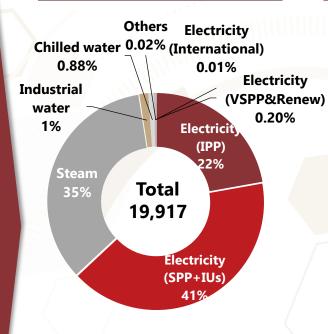
# Majority of GPSC's revenue is from electricity, PTT Group is GPSC's major customer

## **ELECTRICITY CAPACITY BREAKDOWN** (Unit: Equity Megawatt)



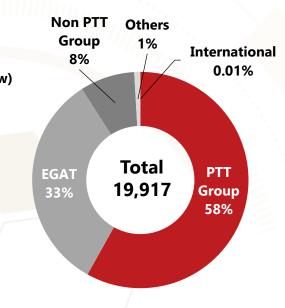
Name	Туре	GPSC's	Total capacity	Equity capacity	Steam	
		share %	(MW)	(MW)	(T/H)	
IN OPERATION						
Sriracha	IPP	100%	700	700		
CUP-1	SPP	100%	226	226	890	
CUP-2	SPP	100%	113	113	170	
CUP-3	SPP	100%	-		280	
CHPP	VSPP	100%	5	5		
IRPC-CP Phase 1	SPP	51%	45	23	86.7	
IRPC-CP Phase 2	SPP	51%	195	99.4	66.3	
CHPP (Solar)	VSPP	100%	5	5		
Consolidat	e to Fina	ncial State	ment	1,072	1,427	
TSR	Renew	40%	80	32		
NNEG	SPP	30%	125	38	9	
BIC-1	SPP	25%	117	29.25	5	
BIC-2	SPP	25%	117	29.25	5	
RPCL	IPP	15%	1,400	210		
S	338	19				
	1,530	1,512				

## 2017 Revenue by product (THB Million)



(THB Million)

**2017 Revenue by customer** 



- Electricity and Steam are major sources of GPSC's revenue, accounted for 98% of total revenue.
- Accounted for more than 50% of total revenue, PTT Group is consistently the largest customer of GPSC in 2017.



## Q4/17 Revenue of THB 4,849 million, increased 14% QoQ

#### Quarterly revenue & pross profit margin

(THB Million, %)

#### Year-on-year

▲ Rev. +387 / 9% ▲ GPM +3%

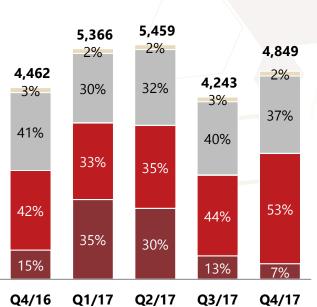
#### **Quarter-on-quarter**

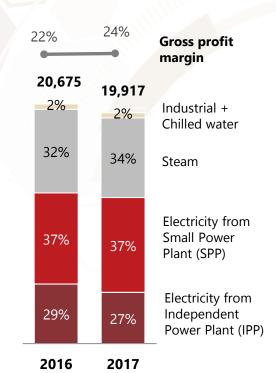
Rev. +606 / 14% GPM -1%

#### **12 Months**

Rev. -758 / 4% GPM +2%







#### Q4/17 VS Q3/17 (QoQ)

Operating revenue in Q4/17 increased by THB 606 million or 14% due to higher demand from industrial customer also, the COD of IRPC-CP Phase 2 and the resume of Phase 1 in Q4/17.

#### Q4/17 VS Q4/16 (YoY)

Operating revenue in Q4/17 increased by THB 387 million or 9% due to higher demand from industrial customer also, the COD of IRPC-CP Phase 2.

#### 2017 VS 2016 (12M)

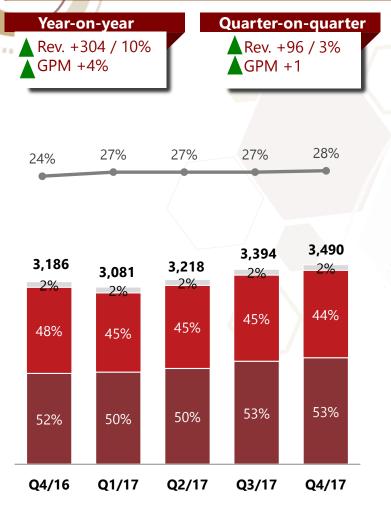
**Operating revenue** in 2017 decreased by THB 758 million or 4% mainly due to the reserved shutdown of Sriracha Power Plant per EGAT's dispatch instruction.



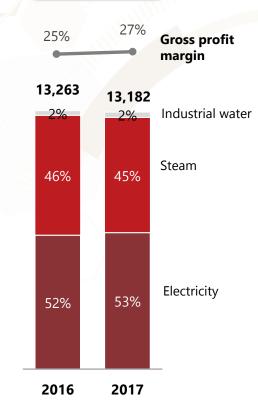
## Rayong Power Plant (SPP): Revenue & GPM

#### Quarterly revenue & gross profit margin

(THB Million, %)







#### Q4/17 VS Q3/17 (QoQ)

**Total revenue** in Q4/17 increased by THB 96 million or 3% because major customer resumed its operation from maintenance shutdown in Q3/17, and higher electricity exported to EGAT.

#### Q4/17 VS Q4/16 (YoY)

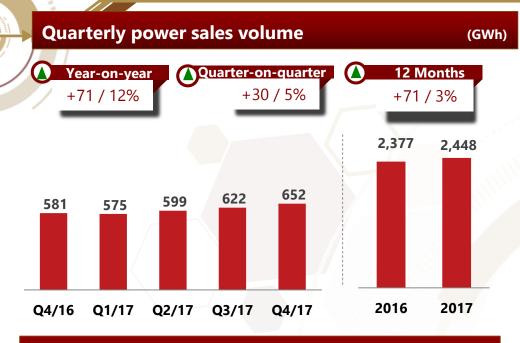
**Total revenue** in Q4/17 increased by THB 304 million or 10% due to higher average selling price followed the rising Ft.

#### 2017 VS 2016 (12M)

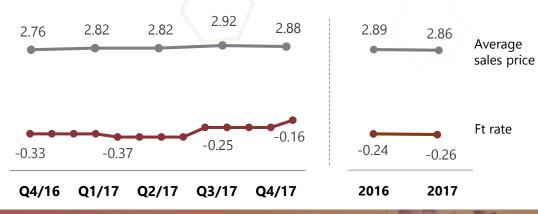
Total revenue in 2017 decreased by THB 81 million or 1% due to lower average selling price of electricity and steam also, many customers shutdown for maintenance in 2017.



## **Rayong Power Plant (SPP): Power**



#### Quarterly average sales price & Ft rate (THB/kWh, THB)



#### Q4/17 VS Q3/17 (QoQ)

- **Volume** increased by 30 GWh or 5% due to higher demand from customer after recovery from shutdown in Q3/17 and higher volume of electricity exported to EGAT.
- **Price** decreased due to the sales of surplus steam from production process.

#### Q4/17 VS Q4/16 (YoY)

- **Volume** increased by 71 GWh or 12% from higher volume of exported electricity to EGAT resulted from higher steam production.
- **Price** increased by 0.12 Baht per kWh or 4% due to the increase in Ft rate.

- **Volume** increased by 71 GWh or 3% since there was Gas Turbine Generator shutdown in O3/16.
- **Price** slightly decreased by 0.03 Baht per kWh or 1% followed lower average Ft when compare to 2016.



## Rayong Power Plant (SPP): Steam



#### Q4/17 VS Q3/17 (QoQ)

- **Volume** increased by 49 thousand tons or 3% because major customer resumed its operation from maintenance shutdown in Q3/17.
- **Price** decreased by 21 Baht per ton or 2% followed the decrease in natural gas price

#### Q4/17 VS Q4/16 (YoY)

- **Volume** increased by 18 thousand tons or 1% since there was no major customer shutdown in Q4/17.
- **Price** increased in line with natural gas price.

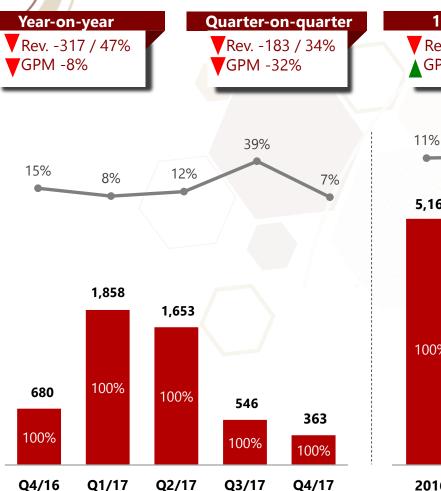
- **Volume** decreased by 158 thousand tons or 3% due to planned maintenance shutdown of customers.
- **Price** decreased by 11 Baht per ton or 1% followed the decline in natural gas price.



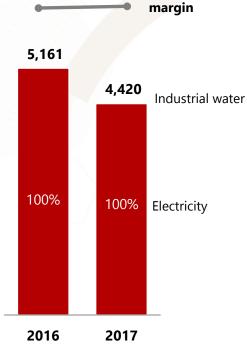
### **Sriracha Power Plant: Revenue & GPM**

#### **Quarterly revenue & gross profit margin**

(THB Million, %)







**Gross profit** 

#### Q4/17 VS Q3/17 (QoQ)

Total revenue in Q4/17 decreased by THB 183 million or 34% due to the decrease in Availability Payment (AP) followed the completeness of Contract Availability Hour (CAH) and also, maintenance shutdown for Combustion Inspection (CI).

#### Q4/17 VS Q4/16 (YoY)

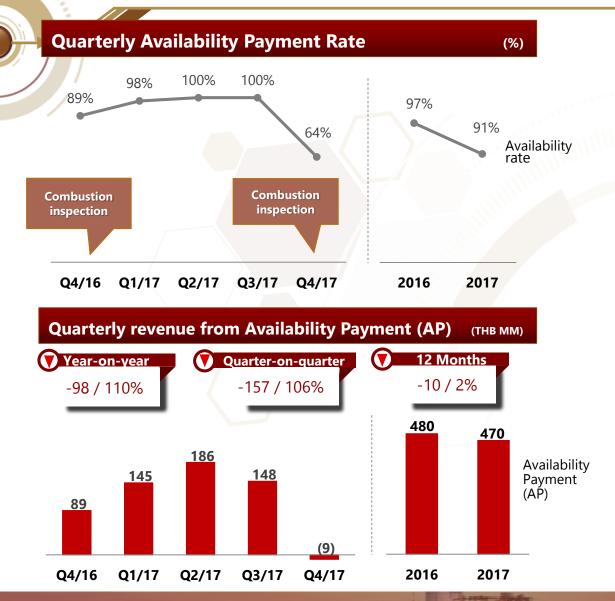
Total revenue in Q4/17 decreased by THB 317 million or 47% due to lower sales volume from reserved shutdown per EGAT's dispatch instruction and maintenance shutdown for CI which longer than in Q4/16.

#### 2017 VS 2016 (12M)

Total revenue in 2017 decreased by THB 741 million or 14% due to lower sales volume from reserved shutdown and maintenance shutdown for CI that was longer than in 2016.



## **Sriracha Power Plant (IPP): Power**



#### Q4/17 VS Q3/17 (QoQ)

- Availability rate in Q4/17 dropped to 64% due to maintenance shutdown for combustion inspection (CI).
- Revenue from Availability Payment (AP) decreased by THB 157 million or 106% due to the complete of Contract Availability Hour (CAH) together with maintenance shutdown.

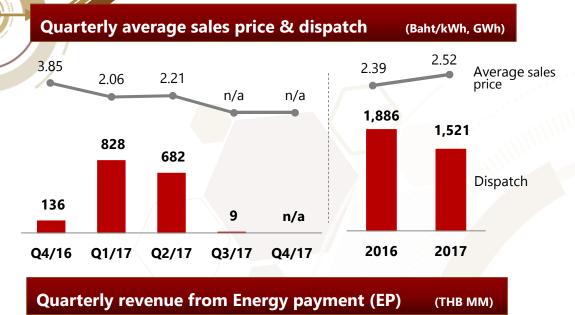
#### Q4/17 VS Q4/16 (YoY)

- Availability rate in Q4/17 was lower than in Q4/16 due to longer period of maintenance shutdown for CI than in Q4/16.
- Revenue from Availability Payment in Q4/17 decreased by THB 98 million or 110% due to the complete of CAH together with longer period of CI.

- Availability rate in 2017 was lower than 2016 due to the longer period of CI.
- Revenue from Availability Payment in 2017 decreased by THB 10 million or 2% due to the complete of CAH together with longer period of CI.



## **Sriracha Power Plant (IPP): Power**



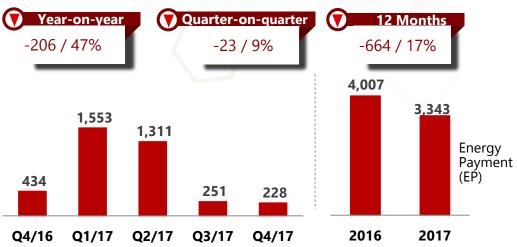


- Dispatch volume decreased by 9 GWh or 100% due to reserved shutdown per EGAT's dispatch instruction.
- Revenue from Energy Payment (EP) decreased by THB 23 million or 9% due to the decrease in dispatch volume.

#### Q4/17 VS Q4/16 (YoY)

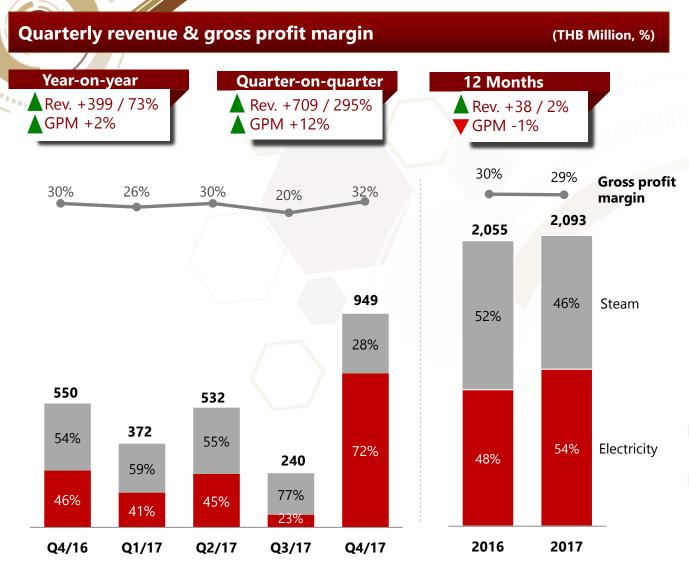
- Dispatch volume decreased by 136 GWh or 100% due to reserved shutdown as per EGAT's dispatch instruction.
- As a result, revenue from Energy Payment (EP) decreased by THB 206 million or 47%.

- Dispatch volume decreased by 365 GWh or 19% resulted from reserved shutdown.
- Revenue from Energy Payment (EP) also decreased by THB 664 million or 17% followed dispatch volume.





## IRPC-CP Power Plant (SPP): Revenue & GPM (1/3)



#### Q4/17 VS Q3/17 (QoQ)

- **Total revenue** in Q4/17 increased by THB 709 million or 295% due to the commercialization (COD) of IRPC-CP Phase 2 and the resume of Phase 1 in Q4/17.
- **GPM** increased due to the COD of Phase 2 and the resume of Phase 1 after a shutdown for commissioning test in Q3/17.

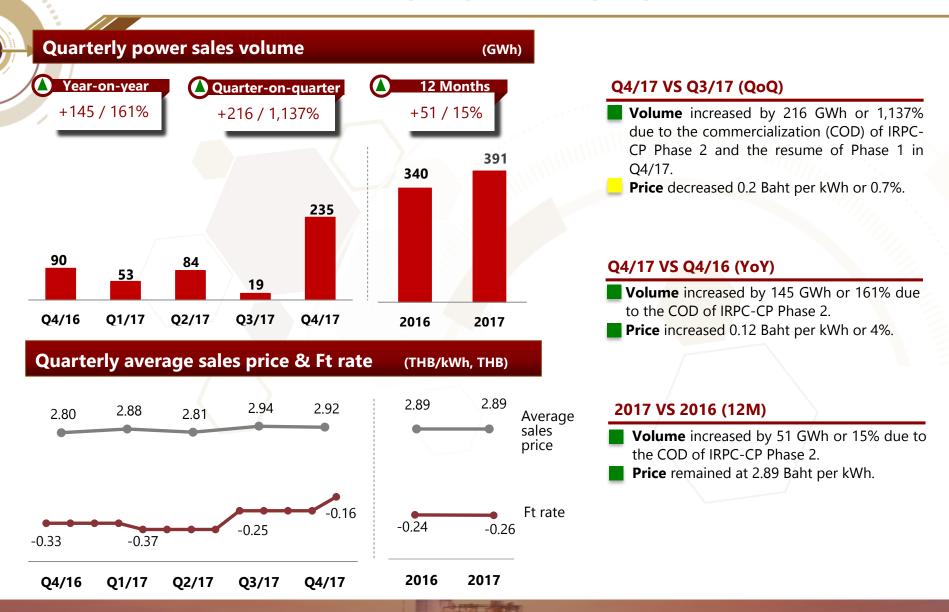
#### Q4/17 VS Q4/16 (YoY)

- **Total revenue** in Q4/17 increased by THB 399 million or 73% due to the COD of IRPC-CP Phase 2.
- **GPM** increased due to the COD of Phase 2 resulted in higher volume of electricity exported to EGAT.

- **Total revenue** in 2017 increased by THB 38 million or 2% due to the COD of IRPC-CP Phase 2.
- **GPM** dropped slightly by 1% due to higher maintenance cost according to maintenance schedule.

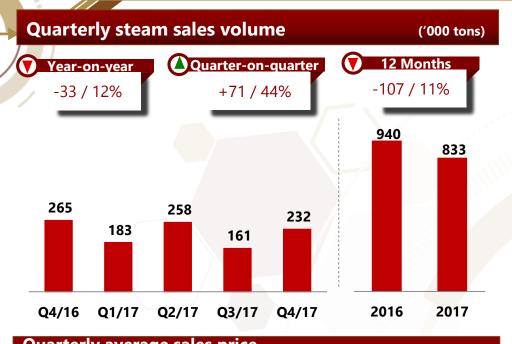


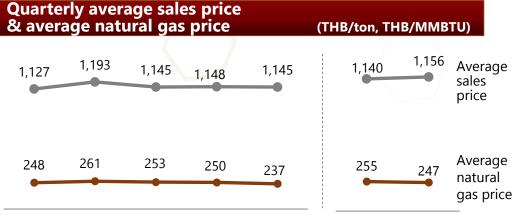
## **IRPC-CP Power Plant (SPP): Power (2/3)**





## IRPC-CP Power Plant (SPP): Steam (3/3)





Q4/17

2016

2017

#### Q4/17 VS Q3/17 (QoQ)

- **Volume** increased 71 thousand tons or 44% due to the COD of Phase 2 therefore, the power plant can produce steam from both Cogeneration and Auxiliary boiler.
- **Price** decreased by 3 Baht per ton or 0.3% due to lower natural gas price.

#### Q4/17 VS Q4/16 (YoY)

- **Volume** decreased by 33 thousand tons or 12% due to the shutdown for commissioning between Phase 1&2.
- **Price** increased by 18 Baht per ton or 2%.

#### 2017 VS 2016 (12M)

- **Volume** decreased by 107 thousand tons or 11% due to customer shutdown for maintenance in Q1/17 and the shutdown for commissioning between Phase 1&2.
- Price increased by 16 Baht per ton or 1%.



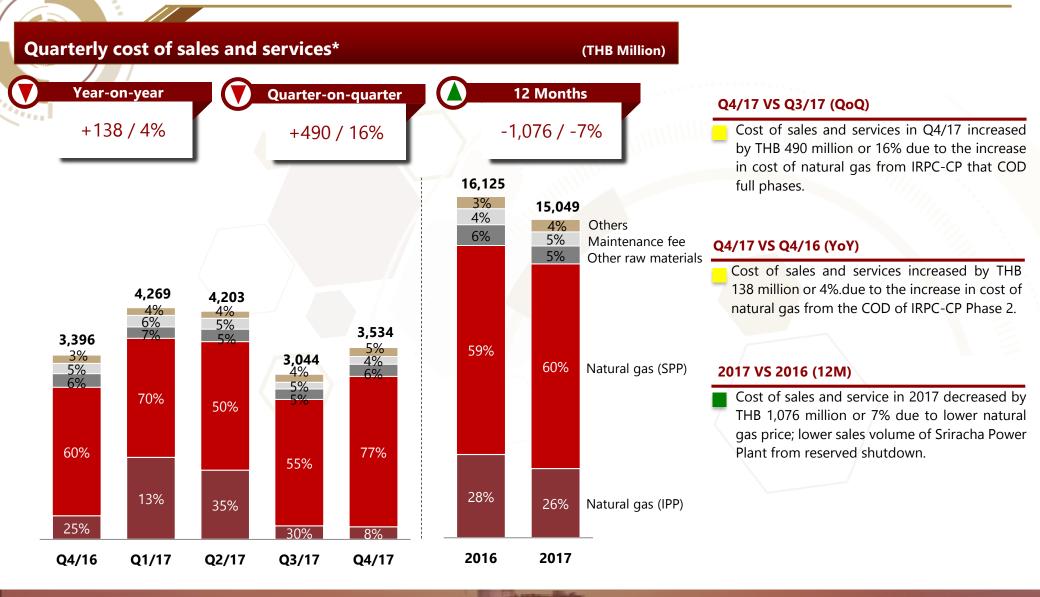
Q4/16

Q1/17

Q2/17

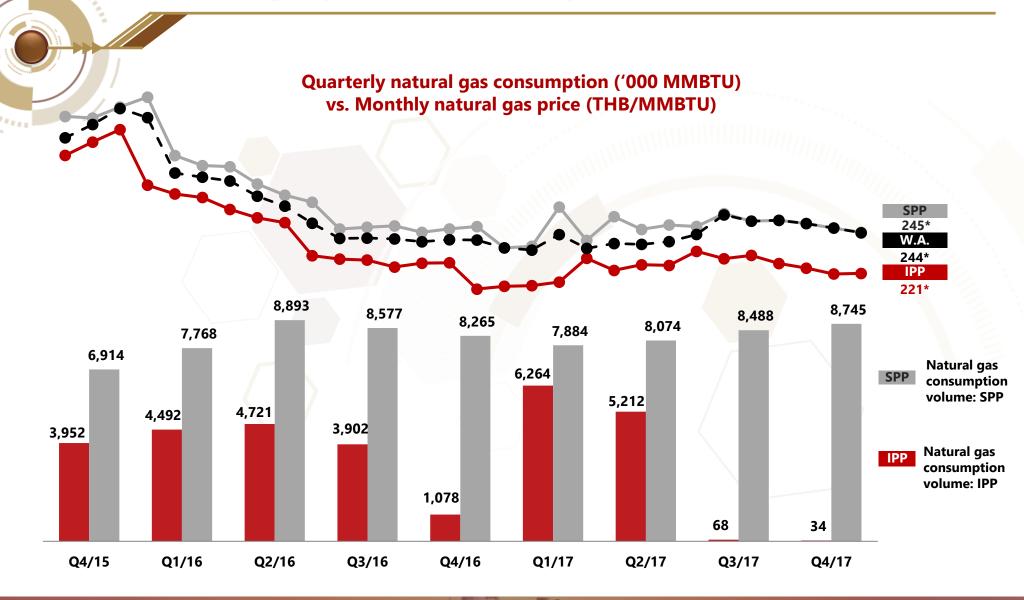
Q3/17

# Decrease in cost of sales and services 12M mainly from reserved shutdown and customer shutdown



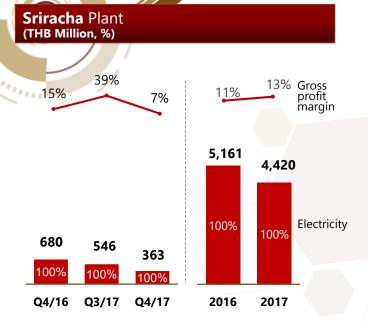


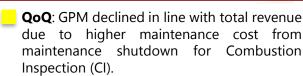
## Natural gas price and consumption





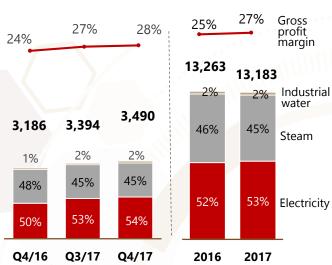
## **Revenue and GPM by Major Plants**





- **YoY**: GPM declined in line with total revenue due to higher maintenance cost from the longer period of CI in 2017 than in 2016.
- **12M**: GPM increased in contrast to total revenue due to the drop in operating hour maintenance cost from reserved shutdown.

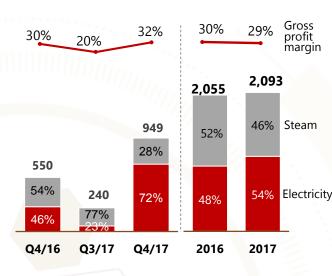
## Rayong Central Utility Plants (THB Million, %)



# **QoQ**: GPM rose in line with total revenue due to higher electricity and steam sales volume after customer resumed operation from maintenance shutdown in Q3/17; the rise in Ft and lower natural gas price

- **YoY**: GPM rose in line with total revenue due to higher electricity and steam sales volume and the increase in Ft.
- **12M**: GPM increased while total revenue declined due to with lower natural gas price.

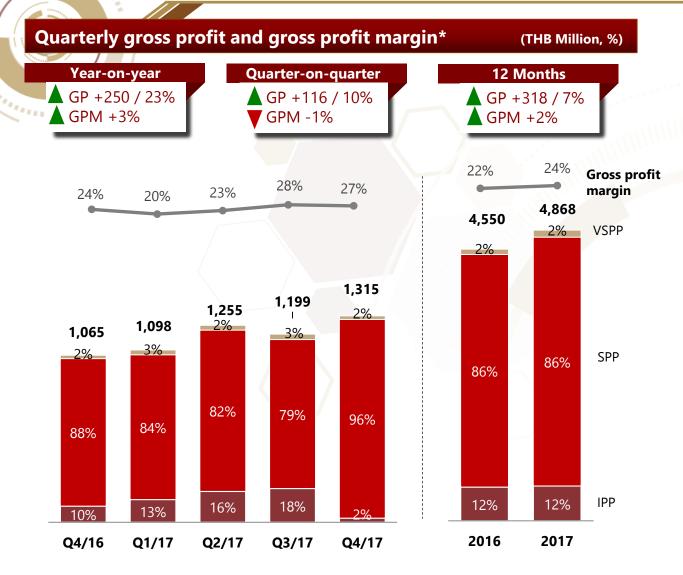
## **IRPC-CP** Plant (THB Million, %)



- **QoQ**: GPM rose in line with total revenue due to the COD of IRPC-CP Phase 2 and the resume of Phase 1 in Q4/17.
- **YoY**: GPM rose in line with total revenue due to the COD of IRPC-CP Phase 2 and the resume of Phase 1 in Q4/17.
- **12M**: GPM dropped in contrast to total revenue due to the shutdown of major customer and the shutdown of IRPC-CP for commissioning between Phase1&2 while maintenance cost rose from scheduled maintenance.



## SPP is GPSC's main and prospering profit generator



#### Q4/17 VS Q3/17 (QoQ)

- Gross profit in Q4/17 was THB 1,315 million increased by THB 116 million or 10% mainly due to the COD of IRPC-CP full phases and higher sales volume at Rayong Plant.
- **Gross profit margin** slightly decreased by 1% due to higher maintenance cost of Sriracha Power Plant during CI.

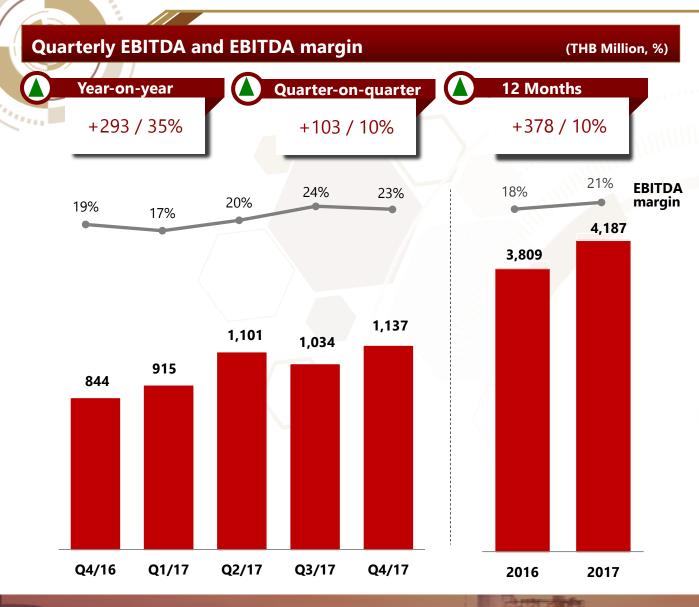
#### Q4/17 VS Q4/16 (YoY)

- **Gross profit** increased by THB 250 million or 23% mainly due to the COD of IRPC-CP Phase 2 and higher sales volume at Rayong Plant.
- Gross profit margin also increased by 3%.

- Gross profit in 2017 was THB 4,868 million increased by THB 318 million or 7% due to lower natural gas price and lower maintenance cost.
- **Gross profit margin** also increased by 2%



## **EBITDA** increased by 10% QoQ



#### Q4/17 VS Q3/17 (QoQ)

**EBITDA** in Q4/17 was THB 1,137 million increased by THB 103 million or 10% mainly due to the rise in sales volume from Rayong Plant and IRPC-CP that COD full phases together with higher Ft.

#### Q4/17 VS Q4/16 (YoY)

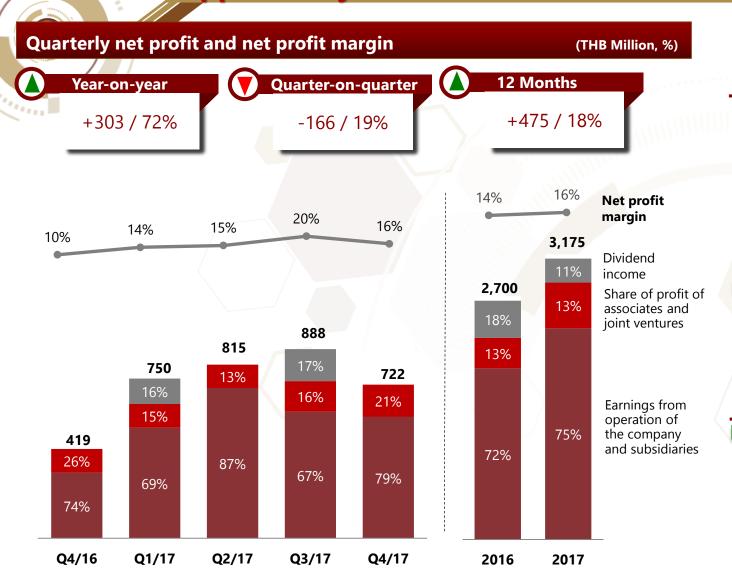
**EBITDA** increased by THB 293 million or 35% due to the rise in sales volume together with higher Ft.

#### 2017 VS 2016 (12M)

**EBITDA** in 2017 was THB 4,187 million increased by THB 378 million or 10% due to the rise in sales volume, lower natural gas price and, lower SG&A.



# Net profit grew 72% YoY from strong operating earnings and supported by return from investments



#### Q4/17 VS Q4/17 (QoQ)

Net profit decreased by THB 166 million or 19% resulted mainly from the dividend income from Ratchaburi Power Company Limited (RPCL) of THB 150 million and income from IRPC-CP Phase 1's contractor of THB 66 million that the company received in Q3/17.

#### Q4/17 VS Q4/16 (YoY)

Net profit increased by THB 303 million or 72% resulted from the rise in sales volume at Rayong Plant together with higher Ft rate, and the COD of IRPC-CP full phases in Q4/17.

#### 2017 VS 2016 (12M)

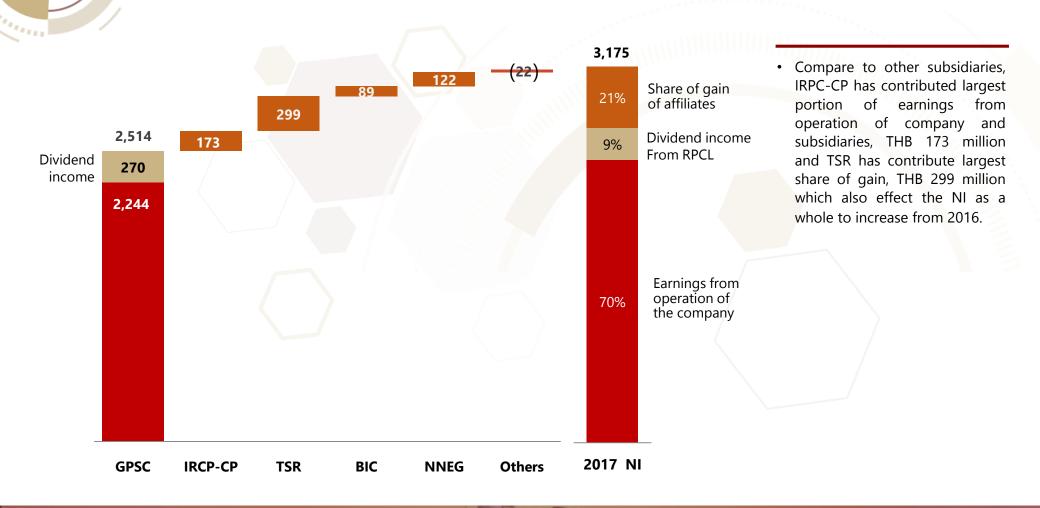
Net profit increased by THB 475 million or 18% due to the rise in sales volume at Rayong Plant and IRPC-CP with lower natural gas price. Also, supported by higher share of profits from NNEG (COD Q3/16) and BIC2 (COD Q3/17).



# IRPC-CP has contributed largest portion of Earning from operation of the company and subsidiaries in 2017

Net profit breakdown by subsidiaries

(THB Million)





## NAVA NAKORN

## Nava Nakorn Electricity Generating (NNEG)





Туре:

SPP Cogeneration

**Electricity:** 

125 MW

Steam:

30 Ton/Hour

COD:

**June 2016** 

#### **Shareholding:**

# NNCL 30% RATCH 40%

#### 4Q17 Key Highlights:

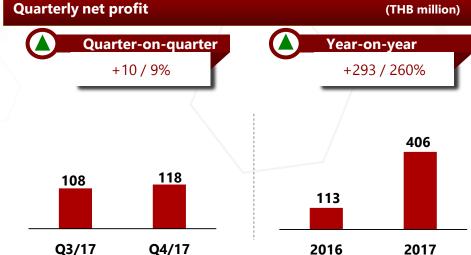
#### QoQ:

 Power sales vol. slightly decreased by 3 GWh or 1% while net profit lifted THB 10 million or 9% due to lower maintenance cost.

#### YoY:

- Dramatically increase in power and steam sales vol. since NNEG started COD on Jun'16.
- Achieved power and steam purchase contract with new customers.
- Full operation in 2017 ramped yearly net profit by 260% from THB 113 million to THB 406 million.

#### **Quarterly sales volume** (GWh, '000 tons) ■ **Power ⊘** -3/ 1% QoQ Power 🔷 +479 / 119% YoY Steam 0/ N/A QoQ Steam 🔷 +55 / 249% YoY 880 401 108 229 226 77 21 21 22 Q3/17 2016 2017 Q4/17 Q3/17





## **Bangpa-In Cogeneration (BIC)**





#### Type:

**SPP** Cogeneration

#### **Electricity:**

**BIC1: 117 MW BIC2: 117 MW** 

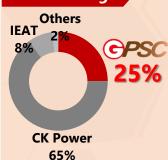
#### Steam:

**BIC1: 20 Ton/Hour BIC2: 20 Ton/Hour** 

#### COD:

**BIC1: December 2013 BIC2: June 2017** 

#### **Shareholding:**



#### 4Q17 Key Highlights:

#### QoQ:

(GWh, '000 tons)

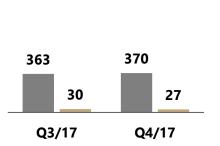
- Slightly higher power sales vol. but lower steam sales vol.
- Net profit jumped 60% from THB 94 million to THB 150 million since there was a higher • expense of contract service agreement (CSA) in Q3/17.

#### YoY:

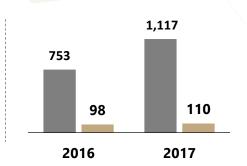
- Power sales vol. rose 48% while steam sales vol. slightly increased 12% since steam in BIC2 was mainly recovered to generate electricity.
- Net income rose THB 170 million or 90% due to the COD of BIC2 on 29 Jun 17.

#### **Quarterly sales volume**





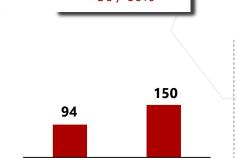




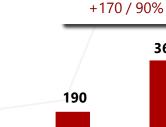
#### **Quarterly net profit**

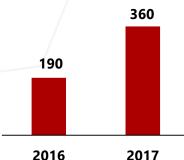
Q3/17





Q4/17





Year-on-year

(THB million)



## Ratchaburi Power (RPCL)





#### Type:

Combined Cycle (IPP)

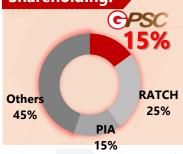
#### **Electricity:**

1,400 MW

#### COD:

**March 2008** 

#### **Shareholding:**



#### 4Q17 Key Highlights:

#### QoQ:

(GWh)

- A significant decrease in sales vol. due to reserved shutdown followed contact availability hour (CAH) and plant outage in Q4/17.
- Net profit sharply dropped 70% to THB 189 million resulted from annual planned outage.

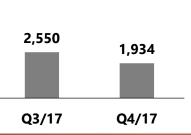
#### YoY:

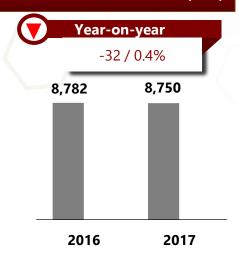
Sales vol. was 8,750 GWh in 2017, slightly dropped by 0.4% from 2016. Net profit decreased to THB 2,068 million or 17% YoY due to expiration of BOI.



Quarter-on-quarter

-616 / 24%

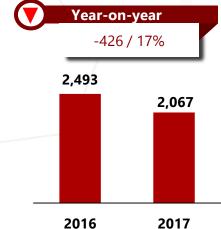




# Quarterly net profit Quarter-on-quarter -449 / 70% 638

Q4/17

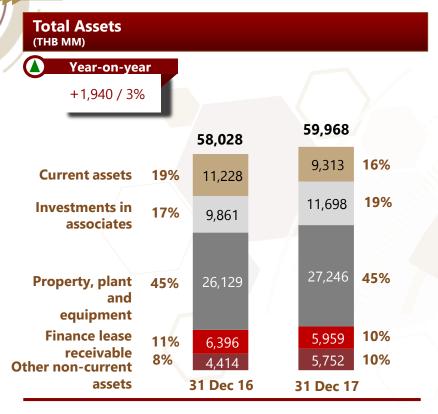
Q3/17

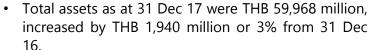


(THB million)

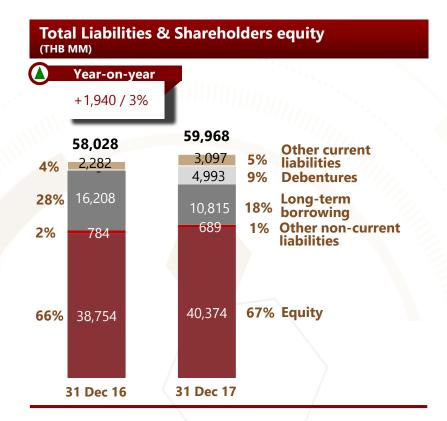


## Summary of financial position of GPSC and its subsidiaries





 The increase was mainly from the increase in investments due to the capital raising of XPCL and BIC as well as PPE of IRPC-CP and ISP1



- Total liabilities were THB 19,594 million increased by THB 320 million or 2% mainly from account payable from construction for IRPC-CP and CUP-4.
- Equity were THB 40,374 million increased by THB 1,620 million or 4% mainly from an increase in the unappropriated retained earnings.



## Well-managed debt profile and continuous deleveraging

#### **Debt profile**

Total interest-bearing debt: THB 15,808 million

#### **Debt repayment plan**

**Current portion THB 991 MM** 



- All debt balance as at 31 December 2017 is in THB and JPY currency.
- The interest-bearing debt is comprised of long-term loan and debentures which includes 6% of current portion.

 Non-current portion of interest-bearing debt equals to THB 14,817 million while current portion equals to THB 991 million.

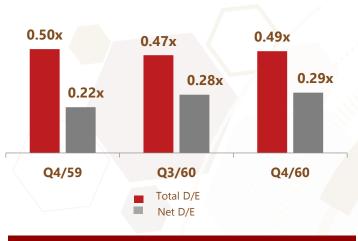
% of total interest-bearing debt

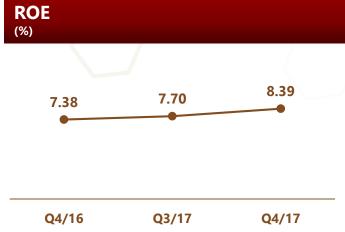
· 44% of total interest-bearing debt will be repaid between 2019 - 2022.



## Key financial ratios support GPSC's strong financial position



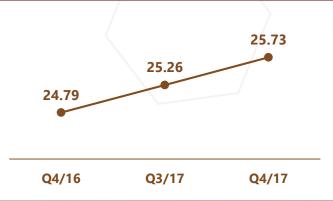




## Earning per share (EPS) (Baht/share)



## **Book value per share (BVPS)** (Baht/share)







## **THANK YOU**

#### **IR Contact**

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Ratios	Formula					
C	Gross profit					
Gross profit margin	Revenue from sales of goods and service + Revenue from finance lease					
	Net profit					
Net profit margin	Total Revenue					
Total Dobt to Favity	Total liabilities					
Total Debt to Equity	Total shareholder's equity					
Not dobt to Equity ratio	Interest bearing debts – (Cash and cash equivalents + Restricted cash + Current investments)					
Net debt to Equity ratio	Total shareholder's equity					
DSCR	EBITDA for DSCR for the last 12 months					
	Principal and Interest to be paid in the next 12 months					
	Net profit for the company					
Earning per share (EPS)	Weighted average number of shares					
DOE	Net profit for the company					
ROE	Average shareholder's equity					
ROA	Net profit (last 12 months)					
	Average assets					
Dealt value manahana (DV/DC)	Shareholder's equity for the company					
Book value per share (BVPS)	Average shareholder's equity for the company					

## 2018 Maintenance schedule: Sriracha and Rayong plants

									2018						
Plant	Tag no.	Description	Q1		Q2			Q3			Q4				
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
CUP-1	H-13701	Aux. Boiler.11		16 <b>1Y</b> 26											
	N-13901 H-13702	GTG11 HRSG11			5 <b>1Y</b> 16										
	N-13902 H-13703	GTG12 HRSG12				7 <b>1Y</b> 17			-						
	N-13903 H-13704	GTG13 HRSG13							7 <b>HG</b> 20 7 <b>3Y</b> 20						
	N-13904 H-13705	GTG14 HRSG14		3 <b>1Y</b> 13											
	N-13961 H-13761	GTG15 HRSG15										16 <b>1Y</b> 26			
	N-13962 H-13762	GTG16 HRSG16	21 <b>17</b> 31												
CUP-2	H-23701	Aux. Boiler.21							1 1Y 11						
	N-23901 H-23701	GTG21 HRSG21			1 <b>HG</b> 14 1 3Y 14										
	N-23902 H-23702	GTG22 HRSG22						10 <b>1Y</b> 20	)						
	N-23911	Steam Turbine21													
CUP-3	H-33701	Aux. Boiler 31								4 <b>1Y</b> 14					
	H-33711	Aux. Boiler 32										4 <b>1Y</b> 24			
	H-33712	Aux. Boiler 33									26/9	<b>6/10</b>			
SRC	11MB 1-211-SG-101	GT11 HRSG#1						3Y					МО		
	12MB 1-211-SG-201	GT12 HRSG#2						3Y					MO		
	STG	Steam Turbine 10											МО		
		Davies Cite	Notes Sriracha Site												

Notes Rayong Site

HGPI Hot Gas Path Inspection for Gas Turbine Major Inspection for Gas Turbine

14 days 22 days

2MO 2nd Major Overhaul for Steam Turbine

Three Year Inspection Aux. Boiler

3Y Three Year Inspection HRSG 1Y One Year Inspection NG Station Test

FO Forced Outage

5Y Five Year Inspection NG Station (NDT)

14 days Online

Depending on physical damage

CI Combustion Inspection for Gas Turbine HGPI Hot Gas Path Inspection for Gas Turbine MO Major Overhaul for Gas Turbine

1Y One Year Inspection NG Station Test

5Y Five Year Inspection NG Station (NDT)

8 days 26 days 33 days

33 days

HRSG

FO Forced Outage

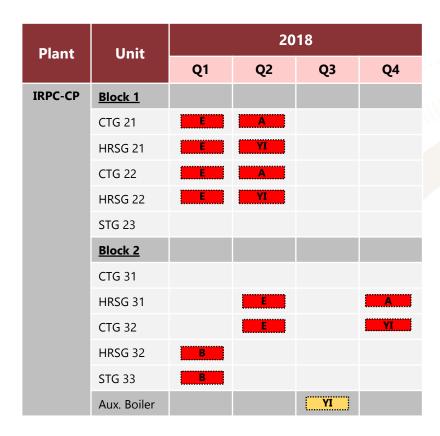
1Y One Year Inspection HRSG 3Y Three Year Inspection HRSG

Online

Depending on physical damage



## **2018 Maintenance schedule: IRPC-CP**



#### Notes

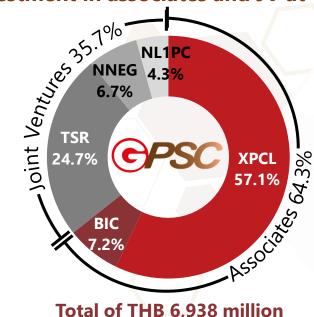
	ΥI	Yearly Inspection	5 days
ΥI	ΥI	Yearly Inspection Aux Boiler	15 day
	Α	CTG Inspection Level A	5 days
	В	CTG Inspection Level B	20 day
	C	CTG Inspection Level C	24 day
	F	FPC Inspection End of Warrantee	3 days



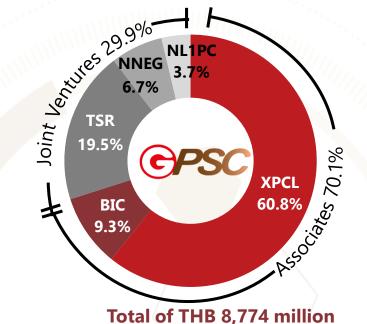
## Investment in associates and joint ventures

Proportion of GPSC's investment in associates and joint ventures at YE16 and YE17 (THB Million, %)

#### **Investment in associates and JV at YE16**



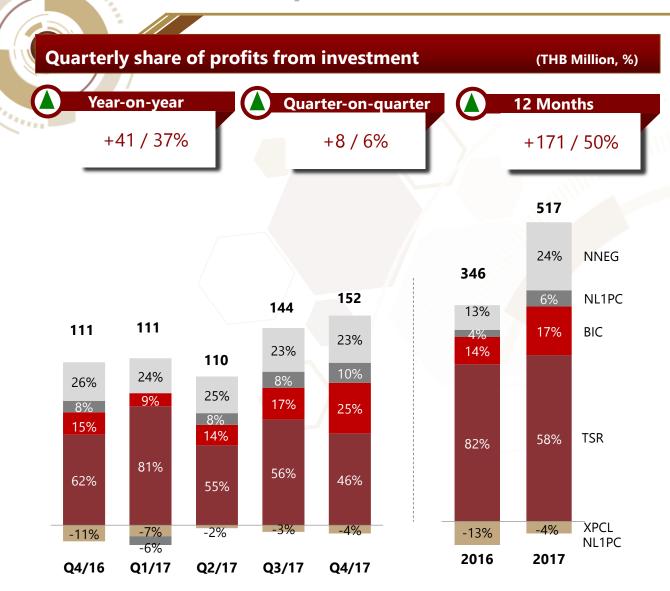
#### Investment in associates and JV at YE17



- GPSC's investment in associates and joint ventures increased from THB 6,938 million at YE16 to THB 8,7744 million at YE17 or approximately THB 1,836 million or 26.5% increase.
- The increase in investment in 2017 was mainly from the investment in XPCL which increased by THB 1,368 million while the share of profit from associates and joint ventures in 2017 contributed to an increase in the investments for THB 517 million.



## **Share of profits from investment**



#### Q4/17 VS Q3/17 (QoQ)

Total share of profits in Q4/17 was THB 152 million increased by THB 8 million or 6% mianly due to the increase in share of profits from BIC by THB 14 million or 58% due to the COD of BIC2 in Jun'17.

#### Q4/17 VS Q4/16 (YoY)

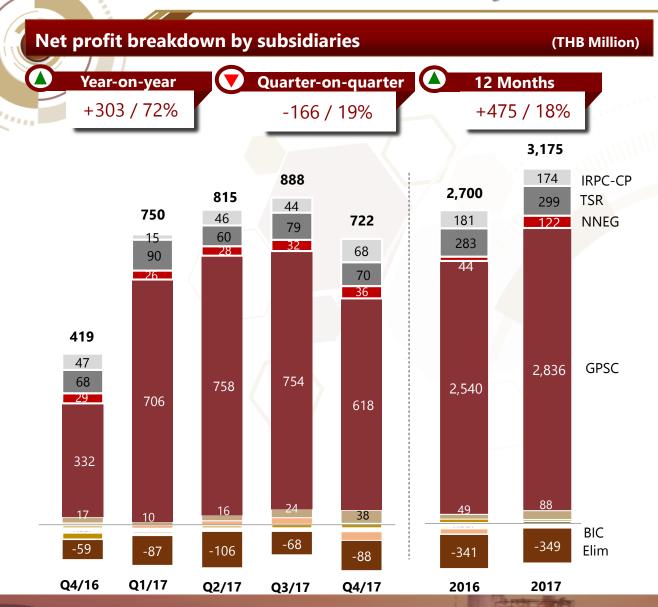
Total share of profits in Q4/17 increased by THB 41 million or 37% mainly from the COD of BIC2 in Jun'17 which contributed the share of profits for GPSC in Q4/17 for THB 38 million.

#### 2017 VS 2016 (12M)

Total share of profits in 2017 increased from 2016 by THB 171 million or 50% which mainly caused by the COD of NNEG in Jun'16 and BIC2 in Jun'17.



## **Net Profit breakdown by subsidiaries**



#### Q4/17 VS Q4/17 (QoQ)

Net profit decreased by THB 166 million or 19% from positive non recurring items in Q3/17, amounting to THB 115 million (IRPC-CP claimed from contractor THB 66 million, dividend income from RPCL THB 150 million, whereas, the loss from lawsuit recorded THB 101 million), while, Q4/17 recorded CHPP impairment THB 30 million.

#### Q4/17 VS Q4/16 (YoY)

Met profit increased by THB 303 million or 72% due to the higher demand of Rayong Plants together with higher Ft rate and the COD of IRPC-CP for both phases in Q4/17.

#### 2017 VS 2016 (12M)

Net profit increased by THB 475 million or 18% due to the rise in sales volume at Rayong Plant and IRPC-CP with lower natural gas price. Also, supported by higher share of profits from NNEG (COD Q3/16) and BIC2 (COD Q3/17).

