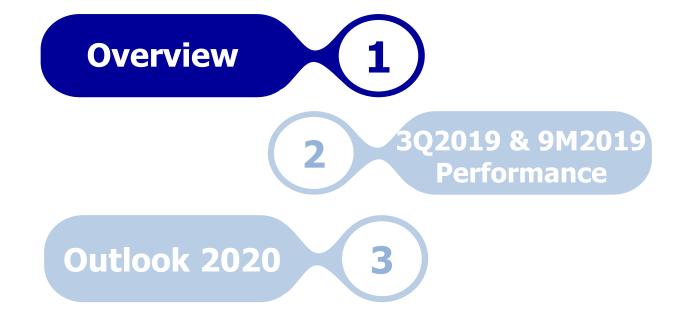


## **Contents**



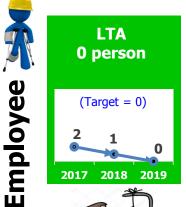


# **Health & Safety Performance in 3Q2019**



Employee's injury record and car accident slightly increased in 3Q2019 but still under target

## **Personal Safety**



2017 2018 2019











**Process Safety** 

**PSE Tier I** 

0 case

(Target = 0)

2018

2019

2017



## **Road Safety**











Contractor







**TRIR** 



## FREWARDS & EVENTS IN 3Q19

## PEOPLE



PTTEP The Best of Drive Award **Drive Award Excellent (Resources)** 

สมาคมนิสิตเก่าเอ็มบีเอ จฟ้าฯ ร่วมกับ หลักสตรบริหารธุรกิจมหาบัณฑิต คณะพาณิชยศาสตร์และการบัญชี จุฬาฯ



กองทุนหน้าใหม่ดีเด่นประเภท Single fund สมาคมกองทนสำรองเลี้ยงชีพ

## LANET

MEMBER OF 8th consecutive **Dow Jones** years Sustainability Indices

In Collaboration with RobecoSAM (









องค์กรที่มี การดำเนินงาน ดาร์บอนต่ำ และยั่งยืนใน ระดับยอดเยี่ยม

















- Low Emission Support Scheme โครงการ "Touch Green"
- Carbon Offsetting

องค์การบริหารจัดการก๊าชเรือนกระจก แห่งประเทศไทย (อบก.)

### เปิดเส้นทางจักรยานศึกษาธรรมชาติ



โครงการอนุรักษ์และพัฒนาแหล่งเรียนรู้ แปลงปลูกป่าถาวรเฉลิมพระเกียรติฯ FPT 49





# **PROSPERITY**

ปตท. – บีไอจีร่วมวางศิลาฤกษ์โครงการ ก่อสร้างหน่วยแยกอากาศที่ใช้พลังงาน ความเย็นจากการเปลี่ยนสถานะก๊าซ ธรรมชาติเหลว หรือ LNG แห่งแรกใน ประเทศไทย





สมาคนิตยสาร นิตยสาร Alpha Southeast Asia ประจำปี 2019

- Most Organized IR
- Best Senior Mgmt. IR Support
- Most Consistent Dividend
- Best Strategic Corporate Social Responsibility

## **Activity Highlights in 3Q2019**





- Won bidding of Map Ta Phut Industrial Port Phase III: JV with GULF (Oct.)
- 2<sup>nd</sup> adjustment of NGV price for public vehicles since 16 Sep (1 bt/time: total 3 bt/kg.)
- Repurchased USD notes and PTT TCC issued new Notes



- Completed Murphy Oil acquisition in Malaysia (Jul.)
- Acquired additional shares in Sinphuhorm project: 66.8% → 80.5% stakeholding (Jul.)
- Completed Partex acquisition in Oman & ME (Nov.)



Construction : MTP & PO/Polyol on track Progress: MTP ~ 73%, PO&Polyols ~80% **COD in Y2020** 



- COD of Low Sulfur Fuel Oil Project (Jul.)
- Construction : Clean Fuel Project (CFP) Progress: ~20% on time & on budget COD in 102023



- Established 2 new holding companies in Thailand and Singapore (Jul.)
- Support Thai Community Market thru "Thai Ded" campaign in PTT gas stations as a community distribution center
- Start up of Solar rooftop project in PTT Gas stations



- Completed Capital Increase of Bt 28,197 million thru right offerings
- COD Xayaburi Hydroelectric Power Plant in Laos (Oct.)
- COD Namlik Power Plant in Laos (Jul.)

## **Lowlights in 3Q2019**





Announcement of the State Enterprise Labor Relations Committee on 25 September 2019 according to the state Enterprise Labour Relations Act B.E. 2543 (2000)



**6** GC ARO 1 : Planned Shut down (May. to Jun.)



CDU 3: 30 days Planned Shut down (mid-Jun. to mid-Jul.) ARO: 45 days Planned Shut down (mid-Jun. to end-Jul.)

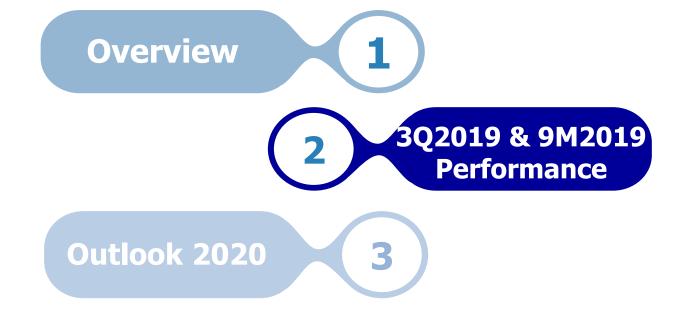




ADU 1: 18 days planned turnaround (Aug)

## **Contents**



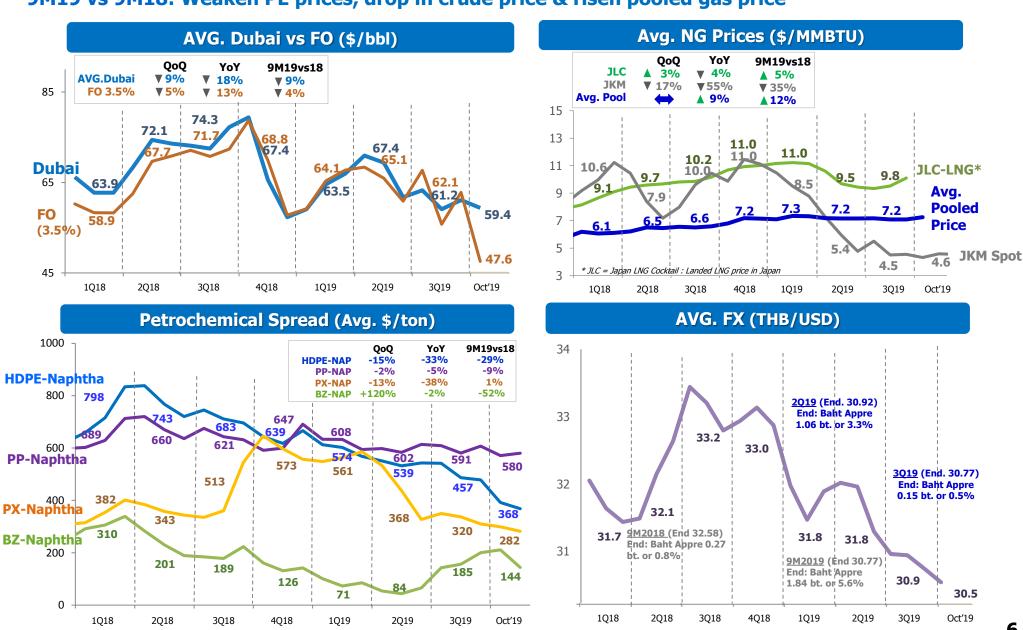


## **Key Business Drivers:**

Note: Figures are average & Naphtha (MOP)



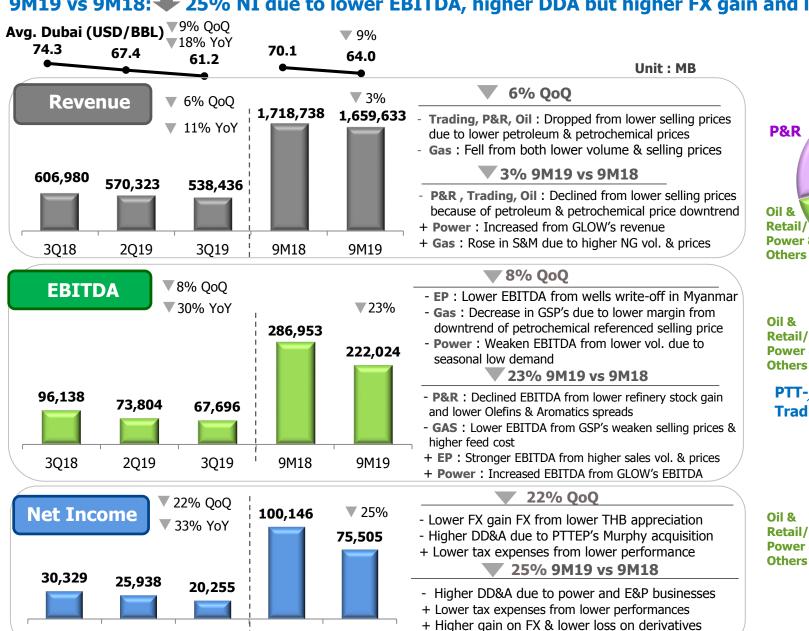
QoQ: Soften demand caused crude decline and PE spread fall despite stable NG pooled price 9M19 vs 9M18: Weaken PE prices, drop in crude price & risen pooled gas price



## **PTT Consolidated Performance: 3Q19 & 9M2019**

**b**ptt

QoQ: 22% NI from lower EBITDA and lower FX gain despite lower tax expenses 9M19 vs 9M18: 25% NI due to lower EBITDA, higher DDA but higher FX gain and lower tax expenses



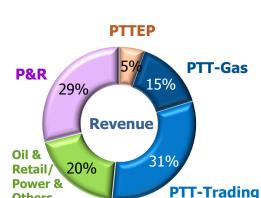
3Q18

2Q19

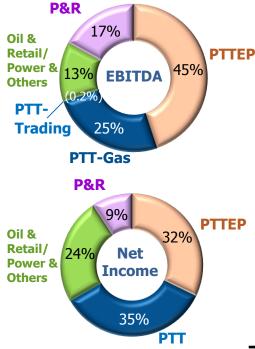
3Q19

9M18

9M19



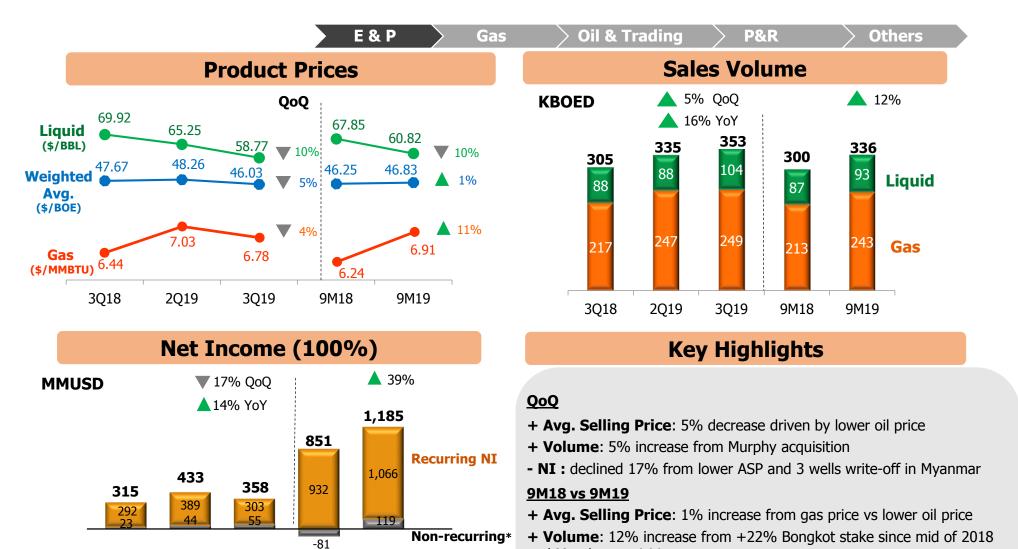
9M19



### **E&P: Prices & Volume and NI**



QoQ: Soften performance due to lower selling prices & higher write-off exploration expenses 9M19 vs 9M18: Strengthen result from increase in sales volume from Murphy & Bongkot



and Murphy acquisition

and no loss from divestment

+ NI: 39% increased from Vol. increase, FX gain from Baht appreciation

3Q19

3Q18

2Q19

9M18

9M19

<sup>\*</sup> Includes Deferred tax from Functional currency, Current Tax from FX Revaluation, Gain/loss from Financial instruments, Gain/(loss)on FX, H1 incident Insurance Claim, and etc.

## **PTT EBITDA Breakdown by Business**



QoQ: Use Gas EBITDA due to GSP's lower petrochemical referenced selling price and S&M's from sales volume dropped

9M19 vs 9M18: Gas EBITDA from lower GSP's selling prices and higher feed gas cost

(Unit: MMTHB)

| <b>Business Unit</b>            | 3Q18    | 2Q19    | 3Q19    | QoQ | YOY               | 9M18    | 9M19    | 9M19vs<br>9M18 |
|---------------------------------|---------|---------|---------|-----|-------------------|---------|---------|----------------|
| Gas- EBITDA                     | 24,831  | 19,850  | 18,100  | 9%  | 27%               | 72,710  | 55,898  | 23%            |
| • S&M                           | 5,306   | 4,438   | 3,720   | 16% | 30%               | 13,712  | 11,661  | 15%            |
| • TM                            | 8,237   | 8,520   | 8,411   | 1%  | 2%                | 26,802  | 25,564  | 5%             |
| • GSP                           | 9,850   | 5,059   | 4,125   | 18% | 58%               | 27,821  | 13,436  | 52%            |
| • NGV                           | (1,438) | (1,015) | (1,032) | 2%  | 28%               | (3,563) | (3,195) | 10%            |
| • Others <sup>1/</sup>          | 2,876   | 2,848   | 2,876   | 1%  | $\leftrightarrow$ | 7,938   | 8,432   | 6%             |
|                                 |         |         |         |     |                   |         |         |                |
| Oil- EBITDA                     | 4,103   | 4,205   | 4,166   | 1%  | 2%                | 14,364  | 14,100  | 2%             |
| Trading <sup>2/</sup><br>EBITDA | 1,003   | 363     | 646     | 78% | 36%               | 4,520   | 1,622   | 64%            |
| Total <sup>3/</sup>             | 29,937  | 24,418  | 22,912  | 6%  | 23%               | 91,594  | 71,620  | 22%            |

<sup>1/</sup> Others include PTTLNG, PTTNGD, and PTTGL (restructured by excluding GPSC, PTTES, PTTDigital and ENCO)

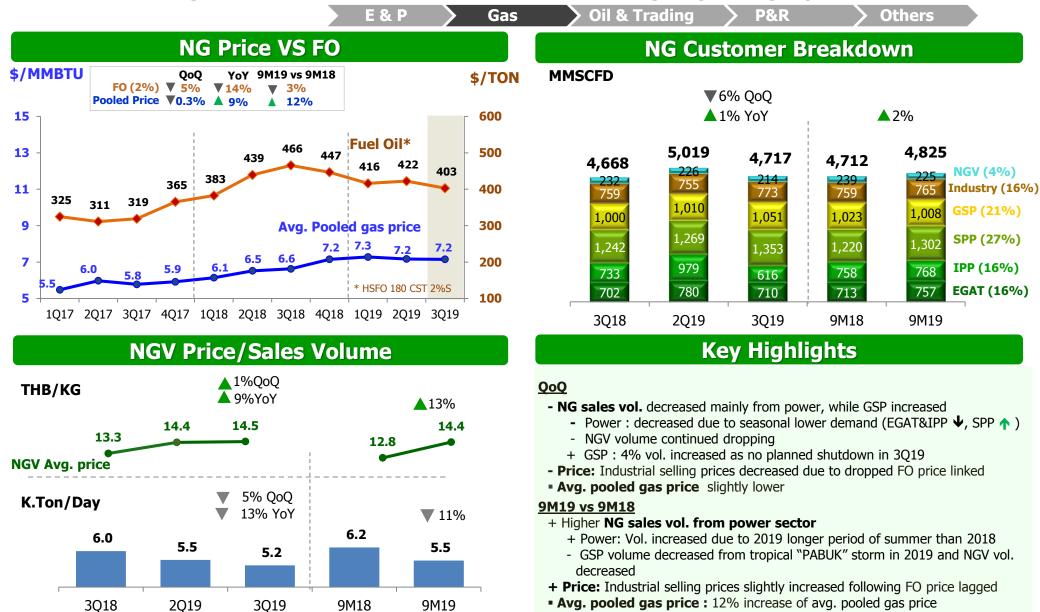
<sup>2/</sup> MIS

<sup>3/</sup> Included subsidiaries from all BUs

#### Gas Business: Prices & Sales Vol.

QoQ: Decreased NG volume from seasonal lower demand despite slightly dropped gas pooled price

9M19 vs 9M18: Higher NG volume from all Power customers and higher pooled gas price



#### **Gas Business Performance** QoQ: Gas's EBITDA from GSP's lower selling price and S&M's decreased sales volume 9M19 vs 9M18: Gas's EBITDA mainly due to lower GSP's petrochemical referenced selling price Oil & Trading Gas **Others GSP Feed Cost vs Petchem. price GSP Sales Volume** YoY 9M19 vs 9M18 QoQ **12% HDPE** 24% **6**% ▼ 5% **V**16% 13% LPG cost GSP ▲ 3% **▲** 13% **▲** 11% Unit: kTon 5,647 ▲ 6%QoQ Feed cost **▲ 13% ▲** 11% 5,349 ▲ 8%YoY 37 Pentane (1%) 1,379 1,384 1,350 650 Unit: \$/Ton 1,226 671 1,149 1,196 1,270 1,301 1,176 **Propane (11%)** 1.127 1,133 1,787 1,114 1,793 **Ethane (32%) HDPE** 502 1,986 1,865 **NGL (9%)** 485 1,842 LPG cost of GSP 13 420 427 i 238 4 414 178 401 | 407 Feed Cost\* 638 597 155 2,671 2,365 LPG (47%) 174 174 316 309 286 269 282 262 259 900 916 923 2017 3017 4Q17 1Q18 2Q18 3Q18 4018 1019 2Q19 3Q19 3Q18 2Q19 3Q19 9M18 9M19 \* Revised feed cost calculation from per sale volume to per GSP production volume **Gas - EBITDA Gas performance highlights Unit: MMTHB** QoQ 9% QoQ **GSP** performance declined from drop of PE&PP prices linked to selling prices 72,710 **23**% 27% YoY despite higher vol. with no planned turnaround in 3Q19 7,938 - **S&M** decreased from lower NG vol. during seasonal lower demand & industrial 55,898 selling price drop from FO price linked **Others** - **NGV** lower loss in gross margin from public selling price lifting (Bt1/kg. each in 16 May 8,432 27,821 and 16 Sept. 19) and lower vol. while expenses increased 13,436 **GSP** 24,831 19,850 9M19 vs 9M18 18,100 26,802 **GSP** dropped from lower petrochemical price linked, higher feed cost, and lower TM 25,564 9,850 **S&M** decreased from higher avg. pooled gas cost & industrial selling price drop 8,237 8,520 8,411 13,712 11,661 S&M from FO price linked **NGV** lower loss from higher avg. selling price & lower sales volume (1,032)NGV

(1,437)

3Q18

(1,015)

2Q19

3Q19

(3,563)

9M18

(3,195)

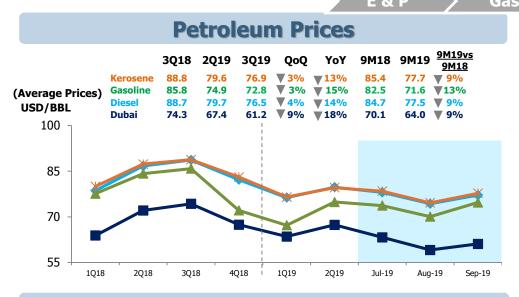
9M19

11

+ Other increased from LNG Terminal 1 vol. increased from 8.4 to 10 MTA

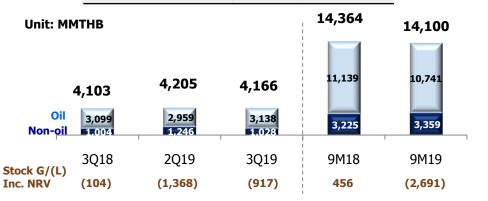
#### Oil BU & PTTOR

QoQ: EBITDA marginally declined from lower sales vol. & higher SG&A despite slightly increased margin 9M19vs9M18: Slightly lower EBITDA from higher stock loss



#### Oil - EBITDA

|         | QoQ         | YoY        | 9М | 19vs9M18 |
|---------|-------------|------------|----|----------|
| Oil     | <b>6</b> %  | <b>1</b> % |    | 4%       |
| Non-oil | <b>17</b> % | <b>2</b> % |    | 4%       |
| Total   | <b>1</b> %  | <b>2</b> % |    | 2%       |



## Gross margin<sup>1</sup>/Sales volume <sup>2</sup>

**Others** 



1/Excluded Non-oil, stock gain/loss, non-recurring item 2/PTTOR only

#### **Key Highlights**

#### **QoQ**

- **Volume**: 3% lower from diesel due to lower seasonal demand (2Q19 is manufacturing & travelling season)
- + Margin: 1% higher from gasoline

Oil & Trading

- **EBITDA**: Slightly drop from higher SG&A

#### 9M19vs9M18

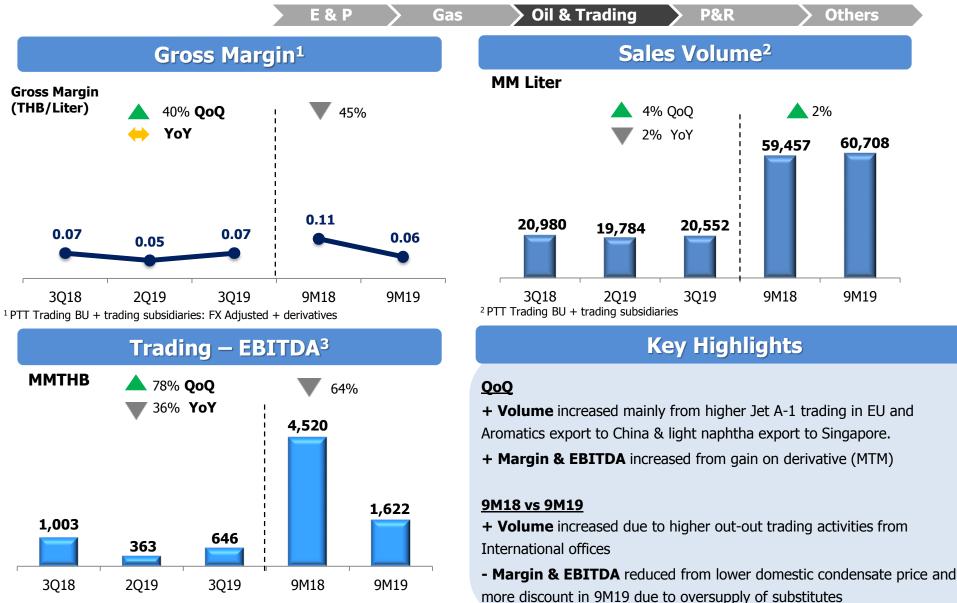
- **Vol**: 3% dropped mostly from LPG due to heavy competition
- + Margin: 14% increased mainly from
  - Diesel: tight marketing margin during 2Q18-3Q18 competition
  - Aviation : pricing structure : Buy (M) Sell (M-1)
- **EBITDA**: lower oil EBITDA due to higher stock loss while non-oil rose mainly from Café Amazon expansion

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## **Trading BU:**

QoQ: Timproved performance from higher vol. & margin

9M19 vs 9M18 : Pressured from domestic condensate margin despite increased sales volume



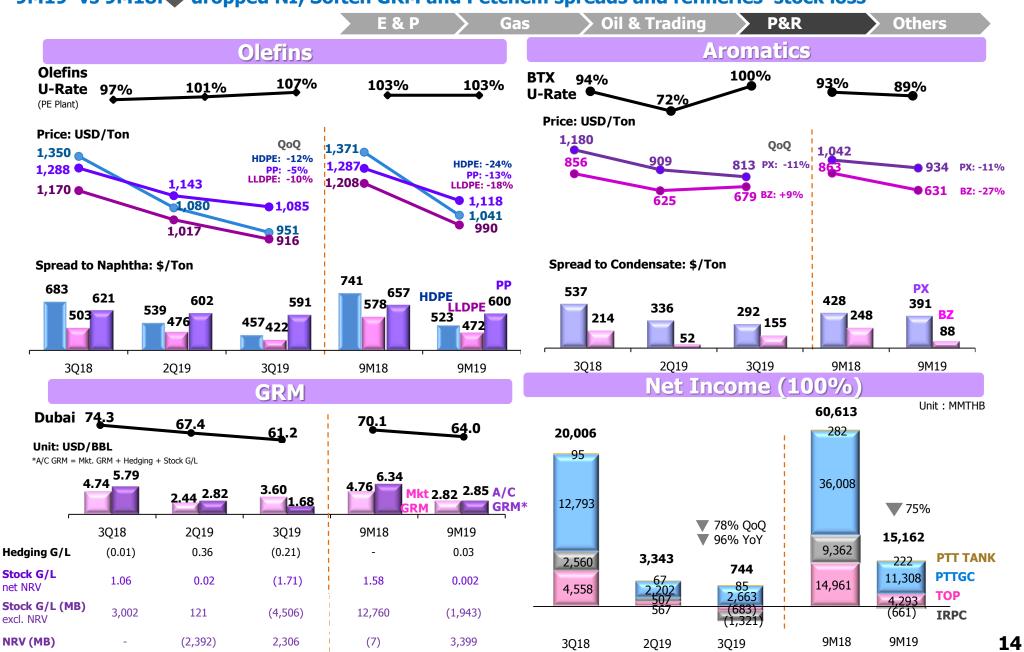
<sup>3</sup> PTT Trading BU + trading subsidiaries: FX Adjusted + derivatives

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#### P&R BU



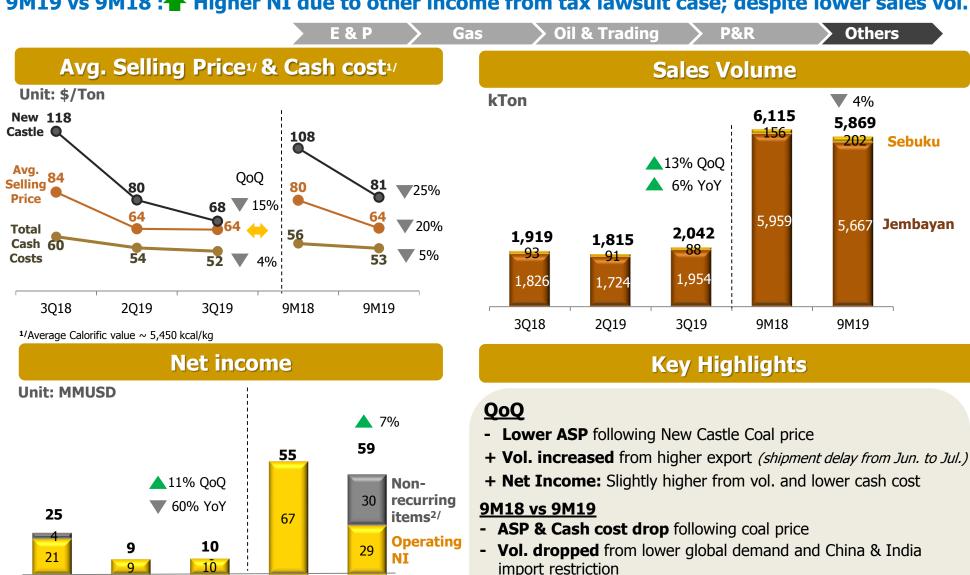
QoQ: Weaker NI from soften Petchem spreads & refineries' stock loss 9M19 vs 9M18: dropped NI; Soften GRM and Petchem spreads and refineries' stock loss



## Other Businesses: Coal business (SAR)



QoQ: NI slightly improved from increased vol. & lower cash cost
9M19 vs 9M18 : Higher NI due to other income from tax lawsuit case; despite lower sales vol.



3Q19

2Q19

3018

(12)

9M18

9M19

+ **Net Income**: performance increased from past tax lawsuits net

payback, despite lower vol. & selling price

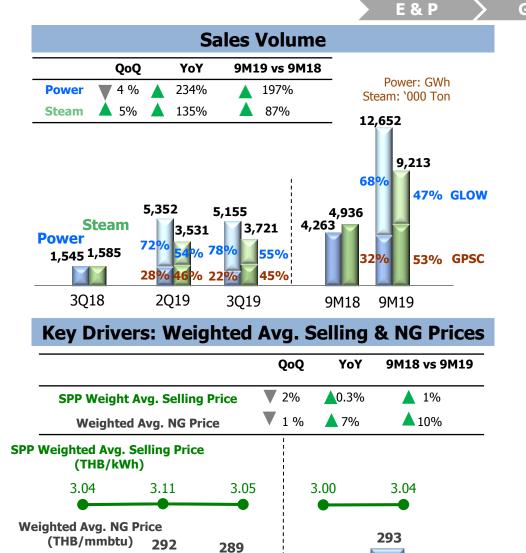
<sup>&</sup>lt;sup>2</sup>/Non-recurring items include the payback on tax lawsuit case & impairment

#### Other Businesses: Power - GPSC



**Others** 

QoQ: Lower Sales Vol. and NI mainly from IPP's performance due to seasonal effect 9M19 vs 9M18: Higher Sales Vol. and NI from the recognition of GLOW's performance



267

9M18

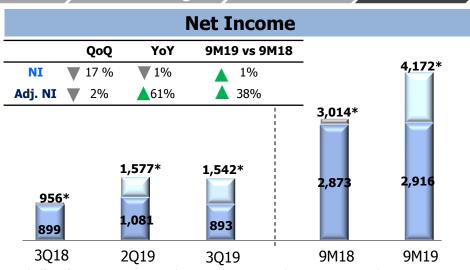
9M19

269

3Q18

2Q19

3Q19



P&R

Oil & Trading

## \*Adjusted Net Income: The net profit attribute to the company that excludes the "fair value of intangible asset from the acquisition of GLOW' which is the amortization expense as well as adjustments to remove the effects of accounting standards which are TFRS 15, TFRIC 4, foreign exchange and deferred tax asset effect

### **Key Highlights**

#### QoQ

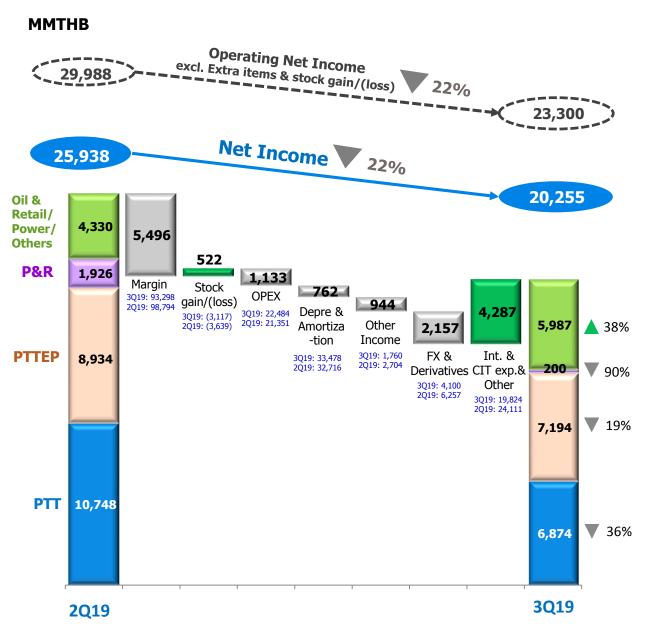
- Sales vol. decreased mainly from IPP's performance following seasonality effect in 3Q19.
- **Selling Price** decreased from an appreciation of Thai Baht against USD and lower natural gas price in 3Q19.
- NI decreased mainly from higher interest expense from short-term loans paid for the tender offer process in May 2019.

#### 9M18 vs 9M19

- + Sales vol. increased from the recognition of GLOW's performance.
- + **Selling Price** increased from higher gas price in 9M19.
- **+ NI** increased from the recognition of GLOW's performance, even though the company incurred higher financial expense after the acquisition.

## **3Q19 Performance (QoQ):**

Soften performance from lower petchem prices resulting to weaken Gas & Petchem business



#### Oil & retail/ Power/ Others

Others:

- + PTTT: Gain on derivatives
- **PTTLNG**: Gain on FX

#### Oil & Retail

- + Margin increased from gasoline
- Lower stock loss
- Decreased sales vol. from lower seasonal demand
- Higher SG&A

#### Power V

- Soften operating income from seasonal effect
- Higher finance cost for tender offer

#### Coal 🔺

+ Higher sales vol. & lower cash cost

#### Petrochemical & Refining

- Higher stock loss in 3Q19
- Olefins dropped from all product spreads
- + Improved Aromatics from higher vol. & BZ spread
- + Better GRM from improved spread esp. gasoline

#### **PTTEP** ▼

- Higher write-off expenses in Myanmar
- Lower ASP from lower gas & crude oil price
- + Higher Volume from Murphy acquisition

#### Gas V

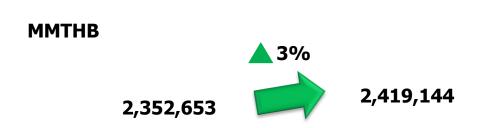
- Softened GSP performance from lower selling prices despite higher vol.
- S&M drop from power vol. due to seasonal effect

#### **Trading**

- + Gain on derivatives (Mark-to-market)
- Improved sales vol.

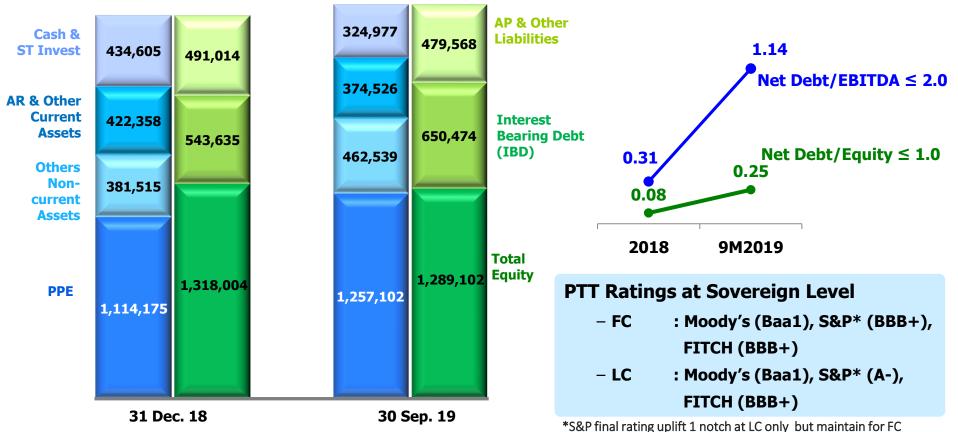
#### **Statement of Financial Position**





#### **Assets/Liabilities increased :** mainly from

- + Increased in PPE from;
  - GPSC's acquisition of Glow
  - PTTEP's acquisition of Murphy
- + Increased in IBD from from Glow acquisition



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## **Statements of Consolidated Cash Flows: 9M2019**



| Operating                       | 9M2018   | 9M2019   |
|---------------------------------|----------|----------|
| Operating                       | 176,137  | 179,158  |
| Net Income                      | 100,146  | 75,505   |
| Changes in assets & liabilities | (70,265) | 7,406    |
| Income Tax                      | (43,608) | (61,759) |
| Non-Cash Adjustment             | 189,864  | 158,006  |

|   | 9M2018   | 9M2019    |
|---|----------|-----------|
| Investing                               | 23,264   | (156,828) |
| CAPEX (PP&E, Intangible asset)          | (76,825) | (110,646) |
| Investment (Sub. & Affiliates & others) | (21,239) | (141,455) |
| Current investment                      | 109,632  | 84,335    |
| Dividend/Interest Received              | 10,031   | 9,165     |
| Others                                  | 1,665    | 1,773     |

Free Cash flow
199,401 22,330

**Adjustment**813 (2,674)

| Financing                 | (88,885)  | (48,431) |
|---------------------------|-----------|----------|
| Repayment Loans           | (111,512) | (73,613) |
| Interest paid             | (20,191)  | (20,453) |
| Dividend paid             | (61,354)  | (55,193) |
| Received from share issue | 52        | 236      |
| Received from loans/Bonds | 113,322   | 135,336  |
| Others                    | (9,202)   | (34,744) |

Cash & cash eqi
Current inv.
AFS\* inv.

|     | Ending Cash & Cash<br>Equivalents |         |  |
|-----|-----------------------------------|---------|--|
| qi  | 166,189                           | 292,184 |  |
| v.  | 229,651                           | 142,421 |  |
| ıv. | 17,602                            | 10,876  |  |
|     | 413,442                           | 445,481 |  |

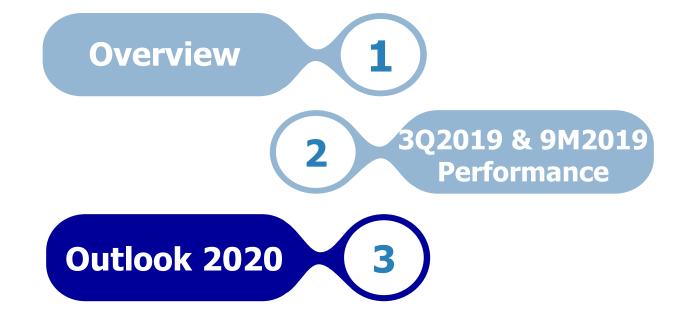
| + | Cash I    | n/(Out)   |
|---|-----------|-----------|
|   | 111,329   | (28,775)  |
|   | (102,734) | (80,853)  |
|   | (3,954)   | (4,176)   |
|   | 4,641     | (113,804) |

| Ending cash incl. S/T investment  | 418,083 | 331,677 |
|-----------------------------------|---------|---------|
| AFS* inv.                         | 13,648  | 6,700   |
| Current inv.                      | 126,917 | 61,568  |
| Ending Cash & Cash<br>Equivalents | 277,518 | 263,409 |

\*AFS = Available for sales

## **Contents**





## **Global Economic Outlook:**



#### **Precarious Growth amid Difficult Headwinds**



24% of World GDP

US economy: Moderate, but Solid, Growth



- + **Strong labor market** to underpin consumption
- + Shift toward increased **monetary policy accommodation**
- + Stimulus from the recently adopted 2-year budget deal



- Fading income tax-cut boost
- Trade-related policy uncertainty



2018 GDP = \$14,170 Bn 15% of World GDP

# Chinese economy: Steady Slowdown in Growth

+ Beijing's commitment to support the economy via **fiscal stimulus and** accommodative monetary policy, while delivering on promised reforms



**Trade tensions** with the US



2018 GDP = \$14,030 Bn 16% of World GDP

#### Eurozone economy: Uptick in Growth



- + Improving labor market
- + Ultra-accommodative monetary policy (QE restart) and pre-emptive fiscal stimulus
- + Continued fading temporary drags (German auto woes)



Uncertain political landscape (UK election/Brexit indecision and paralysis)

### **Asian Economic Outlook:**

## **Caught in Prolonged Uncertainties**





2018 GDP = \$5,220 Bn 6% of World GDP

#### Japan economy: Solid but Volatile Growth



- + **Investment** to replace aging capital stock and address labor shortages
- + Spending related to the 2020 Tokyo Olympics



- **Consumption tax rate increased** in Oct 2019, despite stimulus spending to offset the hit from higher taxes
- Impact from **US China Trade war**
- A trend decline in the labor force



2018 GDP = \$2,960 Bn 3% of World GDP

#### India economy: Further Pick-Up in Growth



- + Reduction in corporate income tax rates
- + **Government programs** to support rural consumption
- + Continued recovery of investment



- Weaker than expected domestic demand
- Non-banking financial companies (NBFCs) liquidity crisis

2018 GDP = \$524 Bn 0.6% of World GDP

#### Thai economy: Moderate Growth to Continue



- **Public investment** with more infrastructure projects entering construction
- Government stimulus measures to help spur foreign tourism



- **Divisive politics** adversely affecting confidence
- High household debt continuing to constrain domestic demand

## **2020 Petroleum and Gas Outlook**

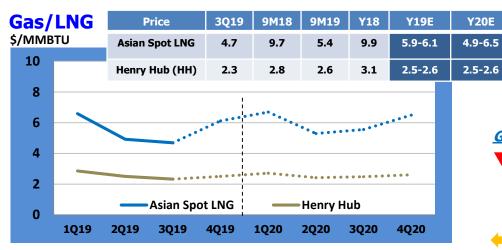




#### Singapore GRM:

Asian refining margins to range between 4.0 - 5.0 \$/bbl in 2019, and 3.5 - 4.5 \$/bbl in 2020

▼ Lower gasoline & FO crack margins during IMO 2020



Source: PTT, PRISM

Petroleum Rolling as of Oct 19, Petrochemical Rolling as of Sep 19

- **Dubai**
- ▼ **Lower demand** due to expectation on global economic slowdown, as concerns on trade war and Brexit remain
- ▼ **Surging Non-OPEC output**, especially in the U.S. increasing crude exports after more pipeline expansion completed in 4Q2019 & 2020
- ▲ OPEC+ cut supply at 1.2 MMBD to balance market until 1Q2020 and they are discussing to extend the deal further
- ▲ **Geopolitical Risks**; U.S. sanction on Iran and Venezuela, plus unrest in oil producing countries
- ▲ Temporary impact from the attack on Saudi's key oil facilities

#### <u>Mogas</u>

- ▼ Softened demand amid global economic slowdown
- ▼ **Ample supply** due to higher refinery intakes of lighter crude, after the U.S. shale oil exports surge
- ▲ Lower supply from refinery's yield shifting to maximize middle distillate ahead of IMO implementation in 2020
- Market concerns over lower supply stemming from the attack on Saudi's key oil facilities

#### <u>Gasoil</u>

- Rising diesel demand from IMO 2020
- ▼ **Softened demand** due to global economic slowdown

#### Fuel Oil

- ▼ Lower bunker demand from IMO 2020
- ▼ **Lower trading activities** in the midst of economic slowdown

#### **Gas/LNG**

- Asian Spot LNG:
  - New LNG trains will continue to boost output
  - Asia remains bearish with limited demand from buyers due to high inventory level
- Henry Hub: U.S. natural gas prices expected to be stable to soft due to the supply that remains high

#### 2020 Petrochemical Outlook







#### **Polystyrene**



Source: PTT, PRISM Petroleum Rolling as of Oct 19, Petrochemical Rolling as of Sep 19

#### **Olefins**

- Expected **new PE, PP supply** from PrefChem (Malaysia) and Chandra Asri (Indonesia) in 4Q2019
- Impact from **US-China trade tensions**
- **Concerns on economic slowdown** and uncertainty of global market outlook

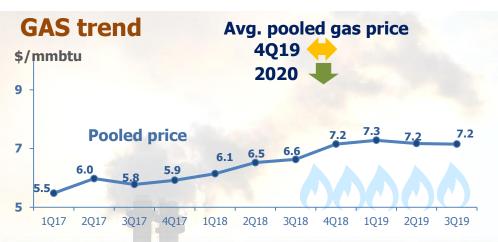
#### **Aromatics**

- **Concerns on PX and BZ supply** due to start-up of Sinopec Hainan and Hengli Group in 402019
- **Additional capacity** from Hengyi (Brunei) and Zhejiang Petrochemical in early 2020
- The resumption of BZ derivative units in 4Q2019 to support demand

#### Polystyrene (PS)

- Pressure by the uncertainty of global economy and trade war
- Limited growth in the long term: PS packaging demand continues facing competition from alternative materials and will face **risks of bans** and negative consumer perception
- Limited new investment on PS capacity

## **Guidance 4Q2019 & 2020**





Gulf MTP LNG Terminal (JV: PTT TANK 30% & GULF 70%)

To start "Land Reclamation" by Mid 2020

**Gas Separation Plant** 

Improve public sector price

GSP Major Turnaround in 2020

1Q20: GSP#5 (20 days)

2Q20: GSP#1 (25 days)

2H20: -



**Optimize asset &** 

Public price: Lifted 1 Baht/kg for total 3 Baht Adjust every 4 months

> 1<sup>st</sup>: May 16, 2019 2<sup>nd</sup>: Sep 16, 2019

3<sup>rd</sup> : Jan 16, 2020





**Overall benefits to PTT Group** 

Downstream: Thaioil IRPC &GC

+ Drives light crude & middle distillate demand → Boosted refining margin

#### **Upstream:**

Gas BU: bptt

- + Lower gas supply cost
- Lagging time basis between purchasing & selling price (Industrial customer sales)

PTTEP: Soften Gas price formula

(1/3 linked with HSFO but lower impact from 2024 onwards)



4Q19: Completion of Partex acquisition in Oman

4Q19: Additional 39% stake in Sinphuhorm proj. →80%

Y2019: Strengthening sales volume (345 KBD)

**6**GC

4Q19: Refinery major TA 54 days (Oct-Nov)

1Q20: Olefins major TA (Crackers & Oleflex)

2H20: COD of MTP Retrofit & PO/Polyols



1H20: Planned TA (Hyvahl, PP, ABS)



4Q19: COD of Xayaburi Power Plant (25% stake)

& CUP4 Expansion proj.

3Q20: NNEG Expansion Project





## **PTT Public Company Limited – Investor Relations Department**



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The information contained in this presentation is subject to change without notice and PTT does not undertake any duty to update the forward-looking statements, and the estimates and assumptions associated with them, except to the extent required by applicable laws and regulations.

## **Statements of Cash Flows (PTT Only): 9M2019**



|                                 | 9M2018   | 9M2019   |
|---------------------------------|----------|----------|
| Operating                       | 46,640   | 26,848   |
| Net Income                      | 153,147  | 55,329   |
| Changes in assets & liabilities | (21,555) | 7,243    |
| Income Tax                      | (12,000) | (29,030) |
| Non-Cash Adjustment             | (72,952) | (6,694)  |

| Investing                               | 9M2018<br>71,141 | 9M2019<br>8,701 |
|---|------------------|-----------------|
| CAPEX (PP&E, Intangible asset)          | (10,253)         | (13,878)        |
| Investment (Sub. & Affiliates & others) | (1,901)          | (2,333)         |
| Current investment                      | 45,554           | 17,019          |
| Dividend/Interest Received              | 36,374           | 30,685          |
| Others                                  | 1,367            | (22,792)        |

**Free Cash flow** 35,549 117,781

| Financing                 | (51,559) | (66,686) |
|---------------------------|----------|----------|
| Repayment Loans           | (11,431) | (27,496) |
| Interest paid             | (6,924)  | (4,917)  |
| Dividend paid             | (34,258) | (34,273) |
| Received from share issue | -        |          |
| Received from loans/Bonds | 1,054    |          |
| Others                    | -        |          |

**Adjustment** (268)178

|                 | Ending Cash and Cash<br>Equivalents |         |  |
|-----------------|-------------------------------------|---------|--|
| Cash & cash eqi | 38,692                              | 86,204  |  |
| Current inv.    | 68,056                              | 21,972  |  |
| AFS* inv.       | 4,533                               | 2,580   |  |
|                 | 111,281                             | 110,756 |  |

| Cash In/(Out) |          |  |  |  |  |  |  |
|---------------|----------|--|--|--|--|--|--|
| 65,954        | (30,959) |  |  |  |  |  |  |
| (39,504)      | (7,316)  |  |  |  |  |  |  |
| (1,793)       | 287      |  |  |  |  |  |  |
| 27,658        | 38,562   |  |  |  |  |  |  |

| Ending cash incl. S/T investment  | 135,939 | 72,768 |
|-----------------------------------|---------|--------|
| AFS* inv.                         | 2,740   | 2,867  |
| Current inv.                      | 28,552  | 14,656 |
| Ending Cash & Cash<br>Equivalents | 104,646 | 55,245 |
|                                   | 104 646 | 55 245 |

**27** \*AFS = Available for sales

## **PTT Group Performance: 3Q2019 (QoQ)**



| Unit : MMTHB  |   | Performance 100% |         |         | % PTT<br>holding | Equity Method % PTT |         |         |
|---|---|------------------|---------|---------|------------------|---------------------|---------|---------|
| OIIIC. MMTHB  | <u> 2Q19</u>                                | <u>3Q19</u>      | QoQ     |         | 2019             | <u>3019</u>         | QoQ     |         |
| PTT Net operating Income                                    |   |                  | 6,868   | (36%)   |                  | 10,748              | 6,874   | (36%)   |
| <u>E&amp;P</u>  | - РТТЕР                                     | 13,684           | 11,019  | (19%)   | 65.29%           | 8,934               | 7,194   | (19%)   |
| <u>Petrochemical</u>  |   | 2,269            | 2,748   | 21%     |                  | 1,173               | 1,374   | 17%     |
|   | - PTTGC                                     | 2,202            | 2,663   | 21%     | 47.69%           | 1,106               | 1,289   | 17%     |
|   | - Other                                     | 67               | 85      | 27%     |                  | 67                  | 85      | 27%     |
| <u>Refining</u>   |   | 1,074            | (2,003) | <(100%) |                  | 753                 | (1,174) | <(100%) |
|   | - TOP                                       | 567              | (682)   | <(100%) | 47.53%           | 540                 | (590)   | <(100%) |
|   | - IRPC                                      | 507              | (1,321) | <(100%) | 47.55%           | 213                 | (584)   | <(100%) |
| Others Business   |   | 6,002            | 7,306   | 22%     |                  | 4,643               | 5,955   | 28%     |
| <u>Inter</u>  | - PTTER/PTTGE/PTTGM                         | 57               | 303     | >100%   | 100%             | 62                  | 277     | >100%   |
| <u>Gas</u>  | - PTTLNG/PTTNGD/PTTGL/TTM(T)/TTM(M)         | 2,094            | 2,462   | 18%     |                  | 1,862               | 2,159   | 16%     |
| <u>Utilities</u>  | - GPSC/TP/DCAP/PTTES/PTTDIGITAL/ENCO        | 1,526            | 1,361   | (11%)   |                  | 382                 | 349     | (9%)    |
| Oil & Oth.  | - PTTT/PTTOR/THAPPLINE/Others <sup>1/</sup> | 2,325            | 3,180   | 37%     |                  | 2,337               | 3,170   | 36%     |
| Shared of Net Income from Affiliates                        |   | 23,029           | 19,070  | (17%)   |                  | 15,503              | 13,349  | (14%)   |
| Tax adjustment for gain on disposal of investment and asset |   | (313)            | 32      | >100%   |                  | (313)               | 32      | >100%   |
| PTT Conso. Net Income                                       |   | 33,464           | 25,970  | (22%)   |                  | 25,938              | 20,255  | (22%)   |

1/ Including BSA, PTT TCC and RTC

## PTT Group Performance: 9M2019 (9M19 vs 9M18)



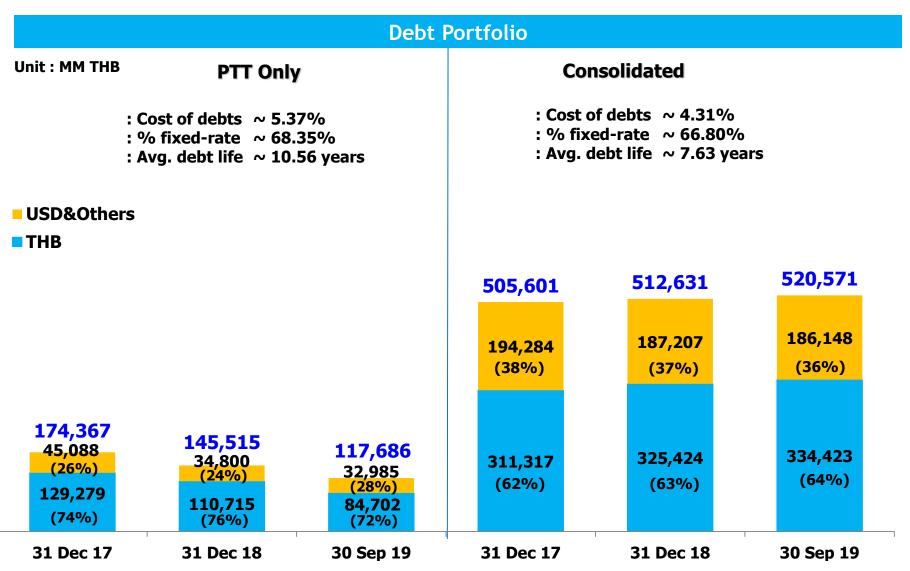
|   |   |                  |             |         | 0/ <b>DTT</b> |                     |             |         |
|---|---|------------------|-------------|---------|---------------|---------------------|-------------|---------|
| Unit : MMTHB  |   | Performance 100% |             |         | % PTT holding | Equity Method % PTT |             |         |
|   |   |                  | <u>9M19</u> | 9Mvs9M  |               | <u>9M18</u>         | <u>9M19</u> | 9Mvs9M  |
| PTT Net operating Income                                    |   |                  | 26,038      | (46%)   |               | 48,152              | 26,038      | (46%)   |
| <u>E&amp;P</u>  | - РТТЕР                                     | 27,372           | 37,182      | 36%     | 65.29%        | 17,871              | 24,275      | 36%     |
| <u>Petrochemica</u>   | <u>l</u>                                    | 36,290           | 11,530      | (68%)   |               | 18,172              | 5,551       | (69%)   |
|   | - PTTGC                                     | 36,008           | 11,308      | (69%)   | 47.69%        | 17,889              | 5,329       | (70%)   |
|   | - Other                                     | 282              | 222         | (21%)   |               | 283                 | 222         | (22%)   |
| <u>Refining</u>   |   | 24,323           | 3,632       | (85%)   |               | 11,749              | 1,418       | (88%)   |
|   | - TOP                                       | 14,961           | 4,293       | (71%)   | 47.53%        | 7,215               | 1,699       | (76%)   |
|   | - IRPC                                      | 9,362            | (661)       | <(100%) | 47.55%        | 4,534               | (281)       | <(100%) |
| Others Busine   | Others Business                             |                  | 22,664      | (1%)    |               | 11,272              | 18,504      | 64%     |
| <u>Inter</u>  | - PTTER/PTTGE/PTTGM                         | 7,258            | 1,589       | (78%)   | 100%          | 853                 | 1,573       | 84%     |
| <u>Gas</u>  | - PTTLNG/PTTNGD/PTTGL/TTM(T)/TTM(M)         | 6,330            | 6,767       | 7%      |               | 5,055               | 5,914       | 17%     |
| <u>Utilities</u>  | - GPSC/TP/DCAP/PTTES/PTTDIGITAL/ENCO        | 4,400            | 4,411       | 0%      |               | 1,106               | 1,118       | 1%      |
| Oil & Oth.  | - PTTT/PTTOR/THAPPLINE/Others <sup>1/</sup> | 4,812            | 9,897       | >100%   |               | 4,258               | 9,899       | >100%   |
| Shared of Net Income from Affiliates                        |   | 110,785          | 75,008      | (32%)   |               | 59,064              | 49,748      | (16%)   |
| Tax adjustment for gain on disposal of investment and asset |   |                  | (281)       | (96%)   |               | (7,070)             | (281)       | (96%)   |
| PTT Conso. Net Income                                       |   | 151,867          | 100,765     | (34%)   |               | 100,146             | 75,505      | (25%)   |

1/ Including BSA, PTT TCC and RTC

## **Debt Profile: Control Cost & Manage Risk**



Managed debt according to financial risk and policy



Note: 1. Data as of 30 Sep 19 (THB/USD = 30.7661 THB/JPY = 0.2873) Excluding liabilities from finance leases; Cost of debts includes withholding tax.

<sup>2.</sup> Debt Outstanding represents amount and portion before derivative swaps, and reconciled with accounting

<sup>3.</sup> Cost of debts, % fixed rate, and avg. debt life took into account the derivative transactions.

## **PTT Group Accounting Structure**



#### **Data as of 30 Sep 2019**

#### **E&P** and Gas Business Group

#### **Subsidiaries** Consolidate

**PTT Exploration & Production Plc.** PTTEP 65.29% PTT Natural Gas Distribution Co., Ltd. PTTNGD 58.00% PTT LNG Co., Ltd. PTTLNG 100.00% PTT Global LNG Co., Ltd PTTGL 50.00%

#### **Joint Ventures** Equity

Trans Thai-Malaysia (Thailand) Co., Ltd. 50.00% TTM (T) Trans Thai-Malaysia (Malaysia) Sdn. Bhd. TTM (M) 50.00% Map Ta Phut Air Products Company Limited MAP 49.00%

#### **Oil Business Group**

**Subsidiaries** Consolidate PTTOR 100.00%

PTT Oil & Retail Business Co., Ltd.

**Others** Cost

PetroAsia (Maoming) Co., Ltd. PA(Maoming) 20.00% PetroAsia (Sanshui) Co., Ltd. PA(Sanshui) 25.00%

## Petrochemicals & Refining Business Group

**Consolidate Petrochemical Subsidiaries** PTTGC 47.69% PTT Global Chemical Plc.\* PTT Tank Terminal Co., Ltd. **PTTTANK 100.00%** 

Consolidate **Refining Subsidiaries** Thai Oil Plc.\* TOP 47.53% IRPC Plc.\* **IRPC** 47.55%

#### **International Trading Business Group**

**Subsidiaries** Consolidate PTT International Trading Pte. PTTT 100.00% **PTT International Trading** 

**London Ltd PTTTLDN** 100.00%

#### **Power Business Group**

**Subsidiaries** Consolidate Global Power Synergy Co., Ltd\* **GPSC** 22.58% Thai Oil Power Co., Ltd.\* TP 26.00%

**Joint Ventures Eauity District Cooling System and Power Plant** 35.00% DCAP

#### **International Investment**

**Subsidiaries** Consolidate PTT Energy Resources Co., Ltd. PTTER 100.00%

PTT Green Energy Pte. Ltd PTTGE 100.00% PTT Global Management Co., Ltd. **PTTGM** 100.00%

#### **Others**

| Subsidiaries PTT Digital Solutions Co., Ltd.* PTT Energy Solutions Co., Ltd.* | PTT DIGITAL<br>PTTES | Consolidate<br>20.00%<br>40.00% | Others Sarn Palung Social Enterprise Company Ltd. Baania (Thailand) Company Ltd. | SPSE<br>Baania | Cost<br>20.00%<br>3.57% |
|---|----------------------|---------------------------------|--|----------------|-------------------------|
| Energy Complex Co., Ltd.  | EnCo                 | 50.00%                          | , , , ,  |                |                         |
| Business Service Alliance Co., Ltd.*  | BSA                  | 100.00%                         | Others   |                | Fair Value              |
| PTT Regional Treasury Center Pte. Ltd.  | PTTRTC               | 100.00%                         | Dhipaya Insurance Plc.   | TIP            | 13.33%                  |
| PTT Treasury Center Co. Ltd   | PTT TCC              | 100.00%                         | HR Robotics Plc.   | HG Robotics    | 9.49%                   |

Remark: \* Subsidiaries that PTT holds less than 50% but being consolidated because PTT has the power to control the financial and operating policies.

# **Dividend Policy & Historical Payments**Dividend payout Policy: Not less than 25% of net income





