

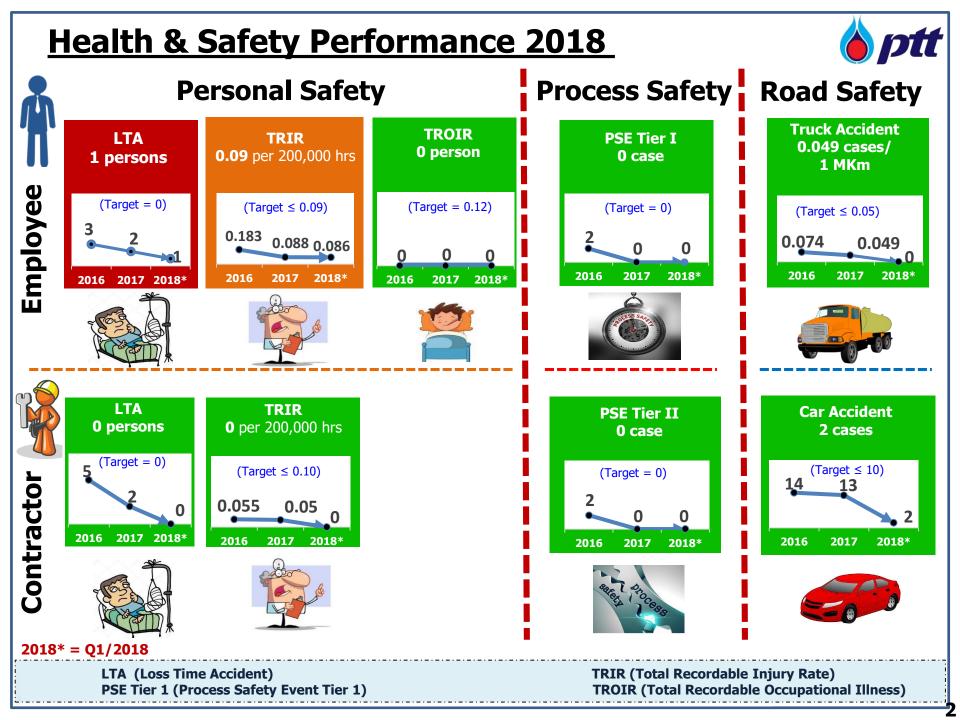








- **Q1/2018** Performance
- **Outlook 2018**







Corporate Governance Asia Recognition Awards

- Asia's Icon in Corporate Governance (13rd consecutive years)
- Asian Corporate Director Recognition (6th consecutive years)



Thailand's Most Admired Brand

• Brand Maker 2018



Executive of the Year 2018 จากโครงการหนึ่งล้านกล้าความดีตอบแทนคุณ แผ่นดิน โดยมูลนิธิเพื่อสังคมไทย



Popular Stock Award of year 2017 (6th consecutive years)



PTT vs Peers

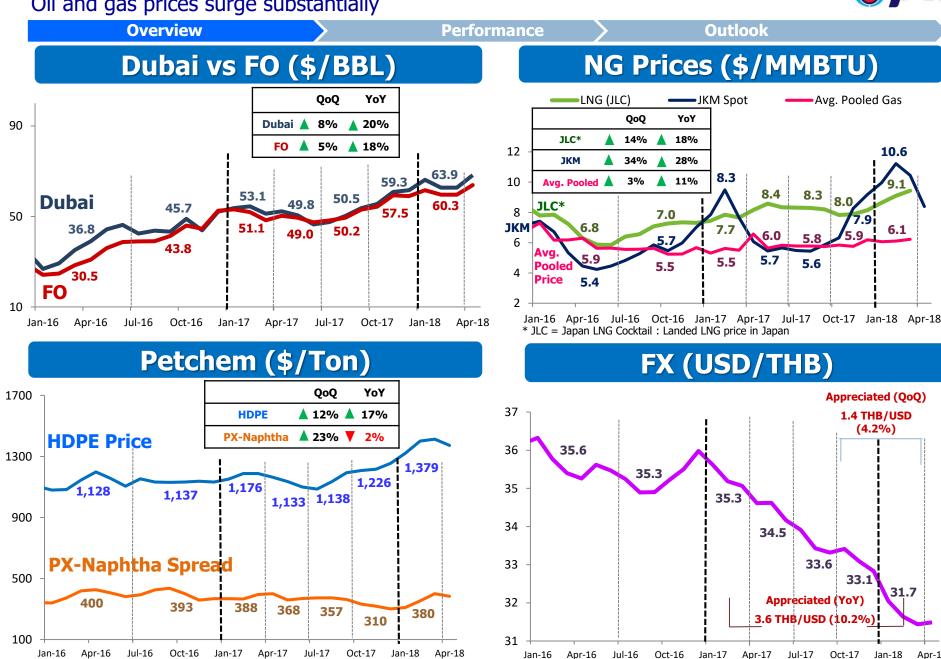
I VS PG			Performance			Outloo	k –		_	
	۲ Peer Selection			2) P [.]	IT ROIC					
OP 250 Oil 8	first 20 ranking integrat & Gas companies 2017 ⁽¹⁾ etronas (comparable Co.)		% ROIC					t		
rank	ompany	25								
	azprom	25						TT achie		
	nopec IKOIL Oil	20					in	Quartile	ROIC	
	xon Mobil	20						2010-2		
	DTAL									
12 PT		15	10.0							
22 R C	osneft Oil		10.9 9	.8 10.3	L 8.9					9
23 R C	oyal Dutch Shell	10	7.4	10.	0.9	7.8			7.6	
	epsol						4.6		2	
	etroChina	5					4.0	22/		
	OL Hungarian O&G									
	usky Energy Inc	0								
	GNIG		2008 2009 20	10 201:	L 2012	2013	2014	2015	2016	20
99 BF	copetrol SA	-5								
	incor Energy	-5								
	hevron									
138 Er		-10								
	etrobras									
	alp Energia, SGPS	-15								
	atoil									
N/A Pe	etronas	-20	1 th Quartile	2 th Quartile	3 th	Quartile	4 th	Quartile	PT	T RC

Note: (1) Platts ranking base on: Asset, Revenues, Profits, ROIC (2) Source from Bloomberg -++

Key Business Drivers:

Note: Figures are average & Naphtha (MOPJ)

Oil and gas prices surge substantially



5

Apr-18

10.6

6.1

Q

(4.2%)

31.7

Jan-18

A

٠

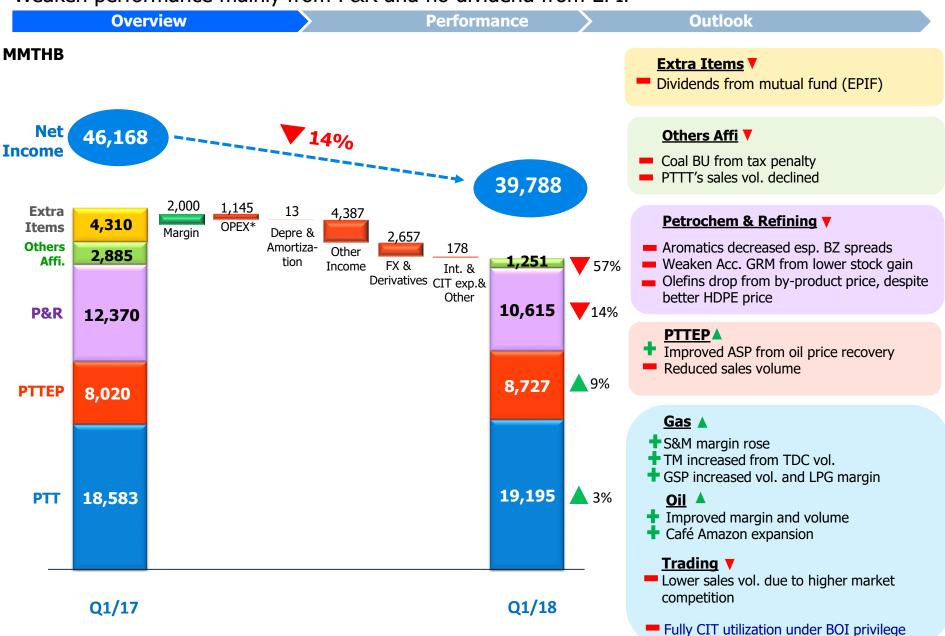
USD 85 MM /Bt 0.7 Bn of Loan (IRPC)

Activities Highlights : 📩						
Key Events Update (Q1'18)	 PTT Acquisition of IRPC shares to bee Split Par (Baht 10 → Baht 1 per NGV's price lifting in public sector Approved to establish company to in Singapore PTTEP Acquire Bongkot (22.22%) Win 2 blocks in Mexico bidding Win 2 blocks in Malaysia (SK417) PTTGC EHIA for Olefins Reconfiguration 	share) r (0.62 Bt./Kg.) to operate Café Amazon & SK438)	 PTT GSP#2 (Planned T/A 16 days) PTTGC BPE plant (Planned T/A 15 days) IRPC Polyolefin (Planed T/A 10 days) Polystyrenic (Planned T/A 14 days) 			
	Business		Performance			
Performance (YoY)	Upstream	PTTEP				
(101)		Coal				
nt 1	Midstream	Gas				
NV	Downstream	Oil				
		Trading				
		Petchem				
		Refinery				
	Infrastructure	Power				
Finance	Repayment (PTT Group)		Loan Drawdown			
	USD 310 MM of Clubloan (PTT)		THB 0.4 Bn (PTTGC sub.)			
 THB 2.5 Bn of Bond (PTTEP) THB 2.5 Bn of Loan /USD 10 MM of Loan/EUR 30.7 MM of Loan (PTTGC & 			 THB 8.5 Bn (TOP Sub.) Sub) THB 0.6 Bn (GPSC Sub.) 			

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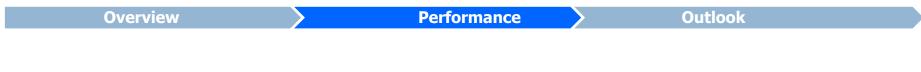
Q1/18 Performance:

Weaken performance mainly from P&R and no dividend from EPIF









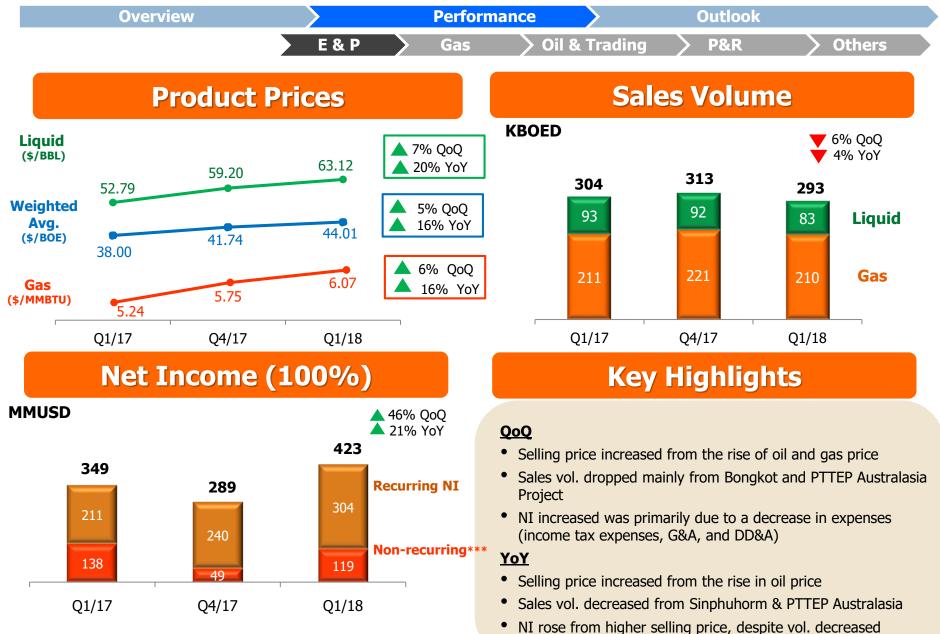


Q1/2018 Performance

Outlook 2018

E&P: NI improved from increased oil price despite lower sales volume

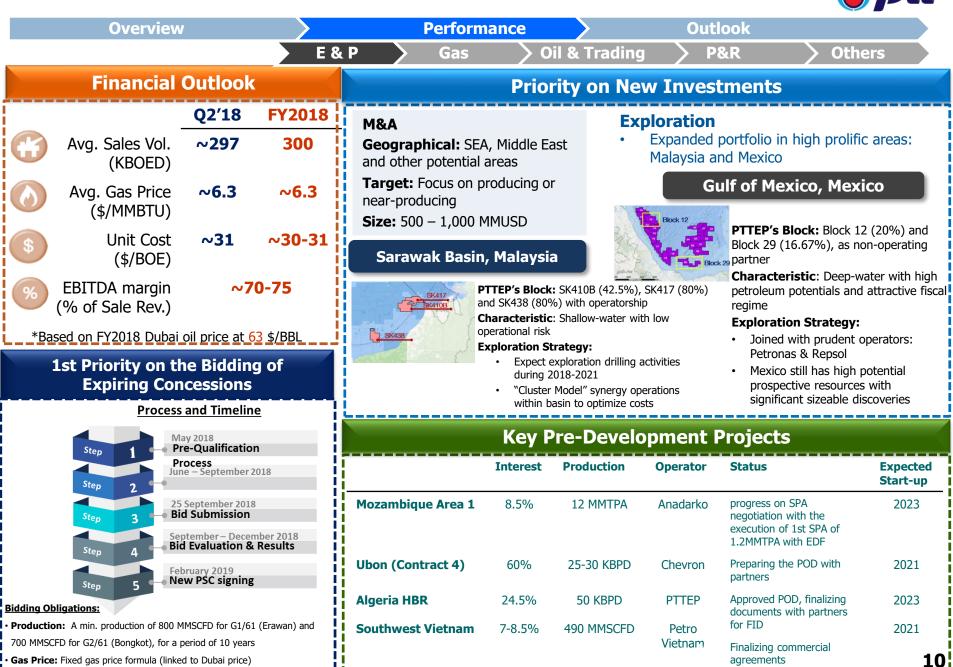




*** Includes Deferred tax from Functional currency, Current Tax from FX Revaluation, Gain/loss from Financial instruments, Gain/(loss)on FX, H1 incident Insurance Claim, and etc.

9

E&P: Outlook



PTT EBITDA Breakdown by BU's

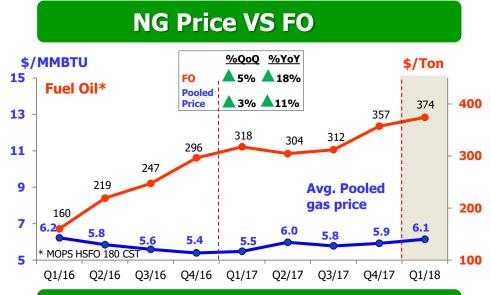
PII EDIIDA DI	zakuowii Dy	DUS				
Overview		Performance		Outlook		
				(U	nit: MI	чтнв)
Business Unit	Q1/17	Q4/17	Q1/18	QoQ	Yo	Y
Gas- EBITDA	22,490	24,400	25,235	1 3%		12%
• S&M	3,602	4,718	4,274	-9%		19%
• TM	8,737	8,306	9,294	12%		6%
• GSP	7,698	8,774	8,208	-6%		7%
• NGV	(1,009)	(855)	(812)	1 5%		20%
Others	3,462	3,457	4,271	1 24%		23%
Oil- EBITDA	5,931	4,513	6,318	40%		7%
			-	_	_	
Trading*- EBITDA	1,908	1,896	1,095	-42%	₽	-43%
Total**	30,329	30,809	32,648	6 %		8%



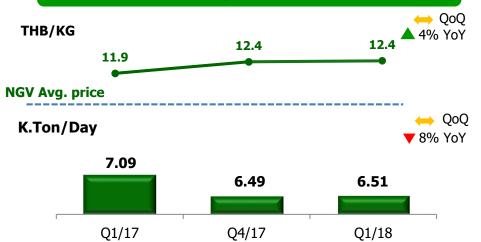
Gas BU: Pooled gas picked up, NG volume decreased from Power

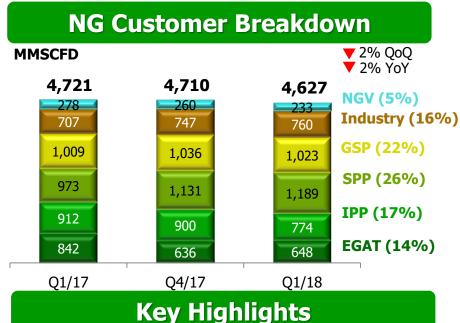






NGV Price/Sales Volume





<u>QoQ</u>

- Gas cost slightly rose, while F/O price rose following crude oil price
- NG sales volume slightly decreased from power
- NGV sales volume maintained

<u>YoY</u>

- NG sales slightly decreased from lower power demand
- NGV vol. dropped from demand switching to diesel and gasoline

Gas BU: Performance improved in all segments



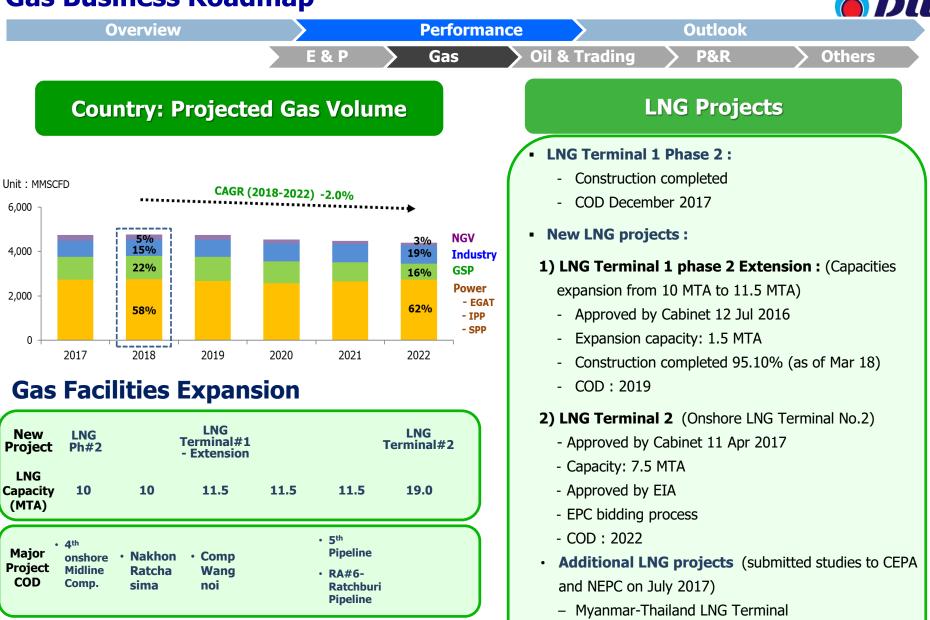
4,271 **Others** 3,457 3,462 8,208 **GSP** 8,774 7,698 9,294 8,306 ТМ 8,736 4,718 4,274 S&M 3,602 (1,009)(812)(855) NGV Q1/17 Q4/17 Q1/18

- GSP pressured by FX appreciation and decreased vol. ٠
- NGV loss less from decreased public car vol. and lower expenses

YoY

- S&M margin increased from higher pooled price and SPP vol. •
- TM increased due to rising TDC vol. ٠
- GSP greatly improved from increased vol. and LPG margin
- NGV loss less from price lifting in gas quality adjustment in Sep 17 ٠

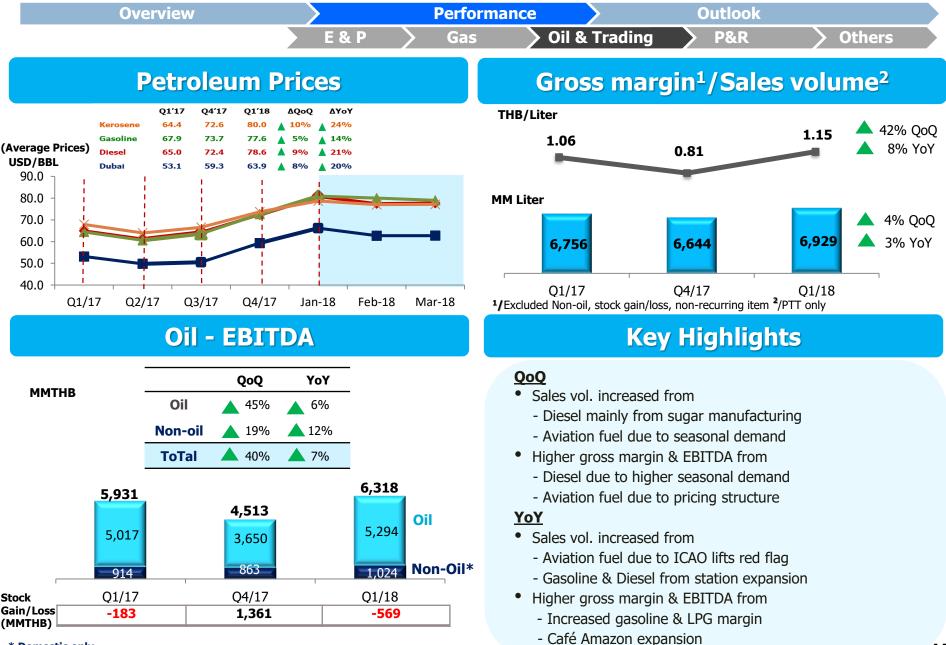
Gas Business Roadmap



- FSRUs (domestic)
- Onshore LNG Terminal 3

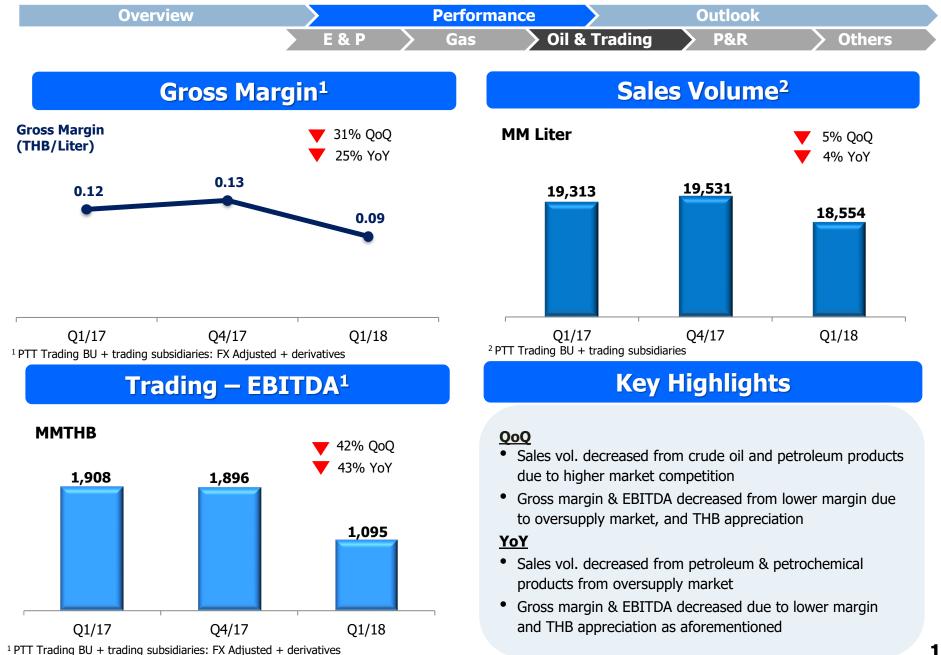
Oil BU : Better performance from higher sales volume and margin





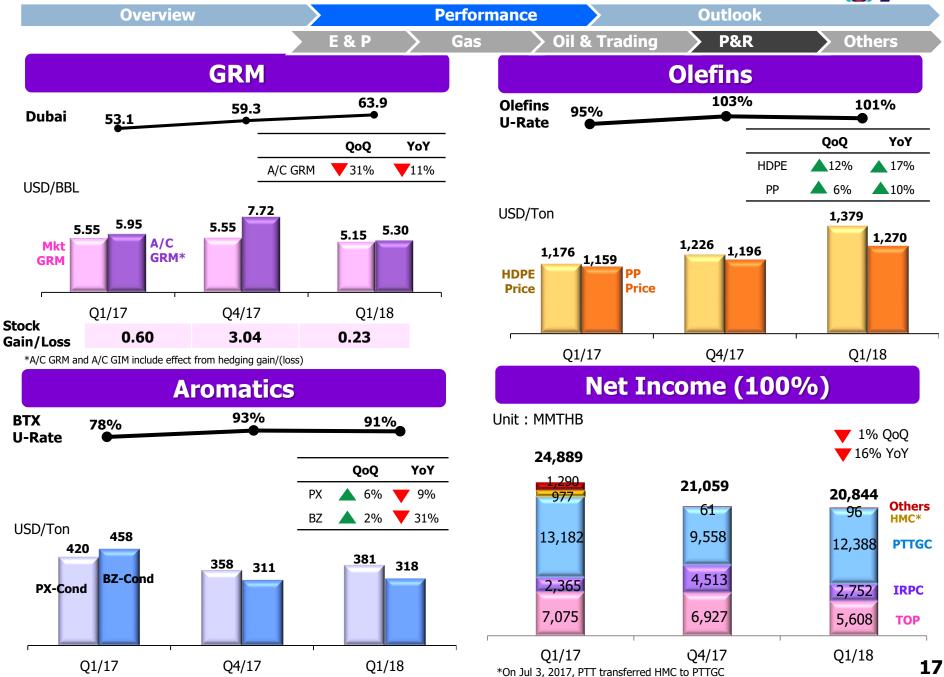
Trading BU: Soften performance from lower sales volume and margin



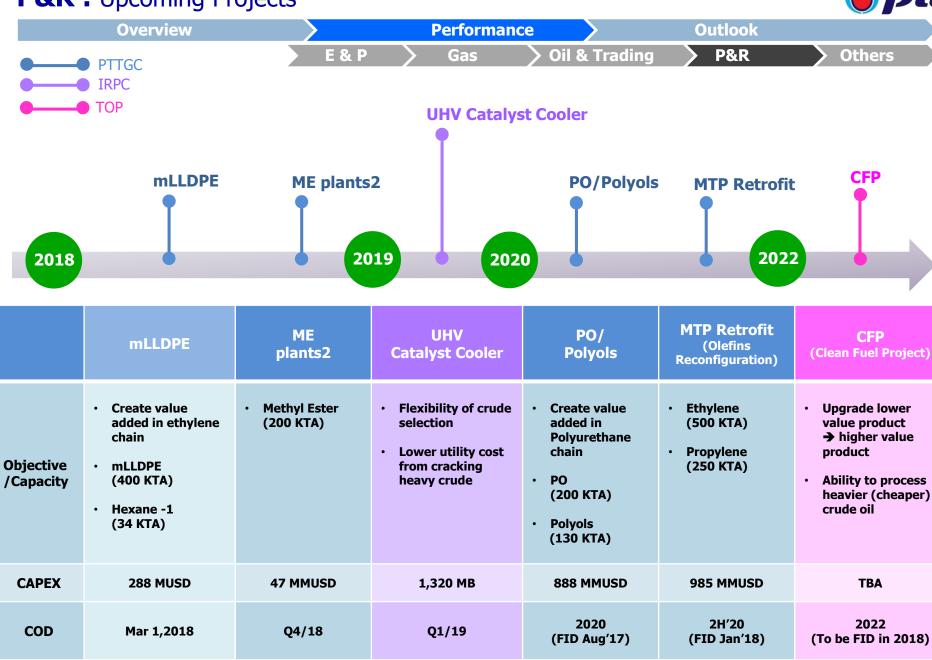


P&R BU : Weaken performance from lower in A/C GRM and Petchem spreads





P&R: Upcoming Projects

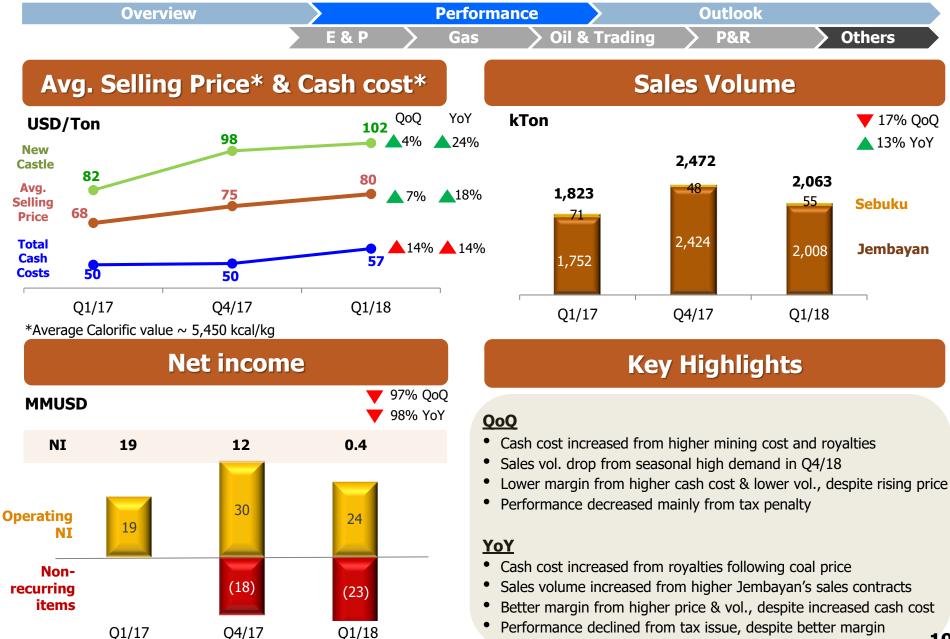




Other Businesses : Coal - SAR

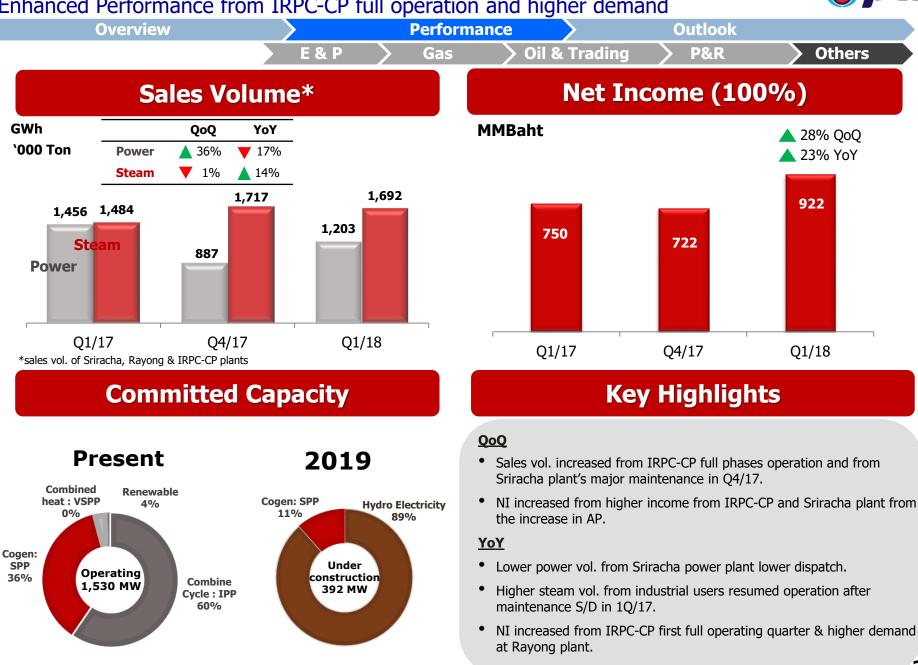
Performance hurt from one-off tax penalty despite better coal price





Other Businesses : Power - GPSC

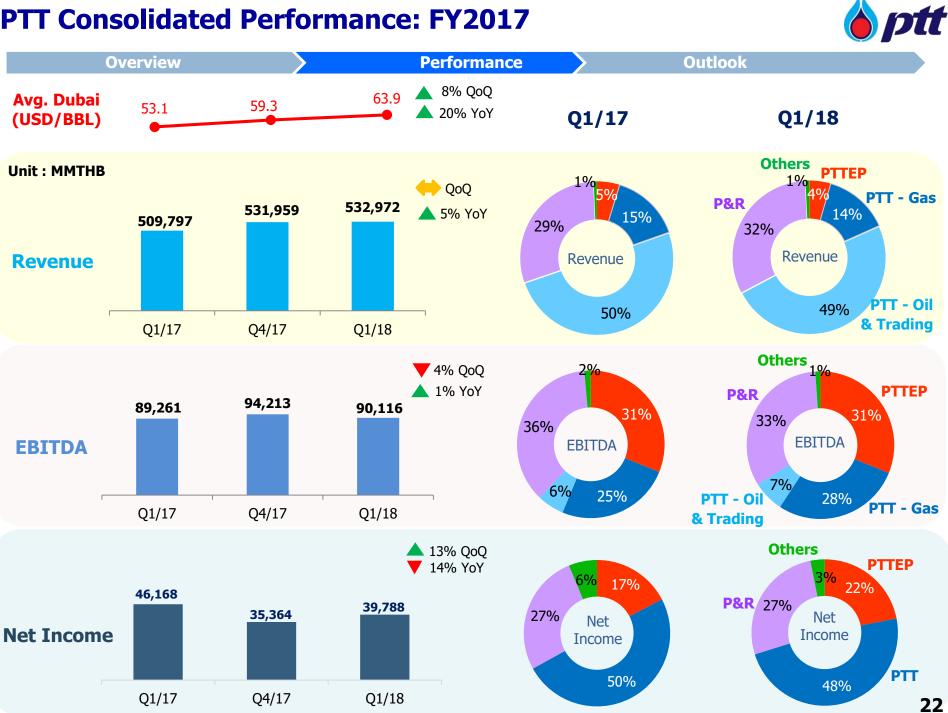
Enhanced Performance from IRPC-CP full operation and higher demand



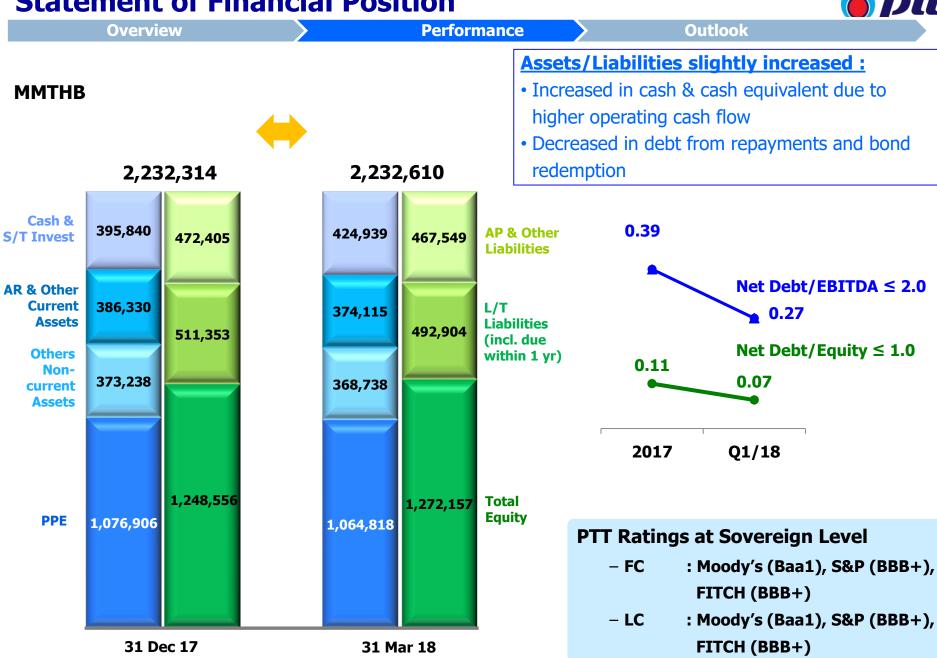
Other Businesses : Power – GPSC



PTT Consolidated Performance: FY2017



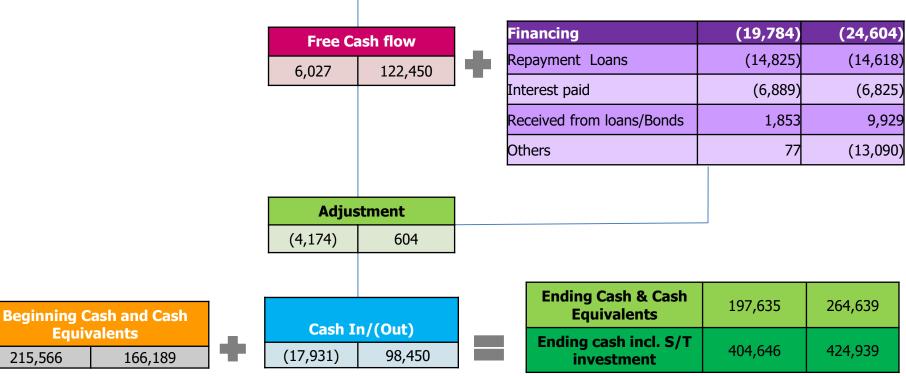
Statement of Financial Position



Statements of Consolidated Cash Flows : Q1/2018

Overview		Performance
Operating	Q1/2017	Q1/2018
operating	61,885	80,958
Net Income	46,168	39,788
Changes in assets & liabilities	(28,335)	(9,322)
Income Tax	(1,633)	(1,446)
Non-Cash Adjustment	45,685	51,938

Outlool	k	
Investing	Q1/2017 (55,858)	Q1/2018 41,492
CAPEX (PP&E, Intangible asset)	(26,209)	(28,676)
Investment (Sub. & Affiliates & others)	(5,657)	(1,652)
Current investment	(30,198)	69,355
Dividend/Interest Received	6,226	2,583
Others	(20)	(118)





Overview





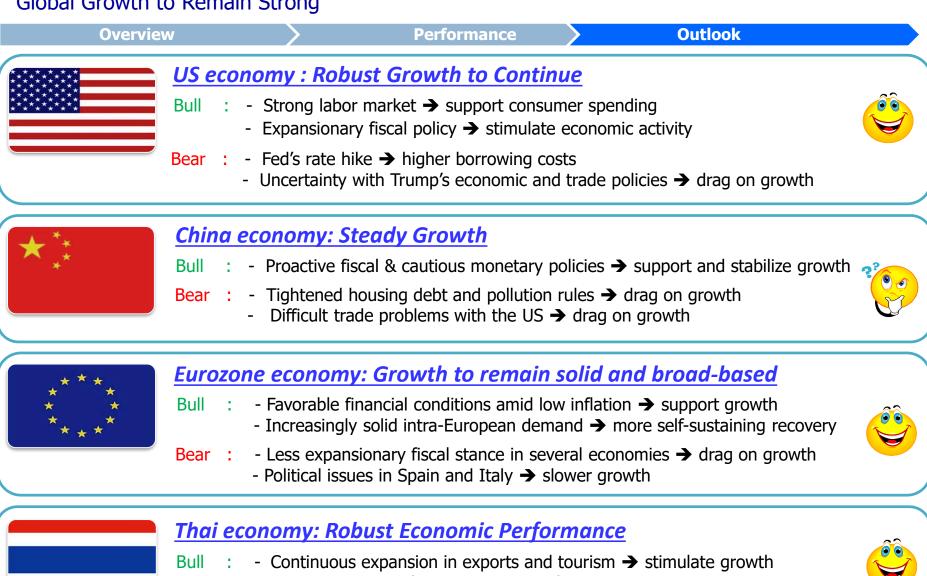
Outlook



- **Q1/2018 Performance**
 - **Outlook 2018**

Global Economic Outlook 2018:

Global Growth to Remain Strong



- Government spending : EEC → crowd in private investment
- Bear : - High household debt → constrain domestic demand



Summary: Outlook 2018

Summary: Oution	OOK 2018		
Overview	N	Performance	Outlook
Business	Q1/2018	2018 (Forecast)	Reason
Gas Price (\$/mmbtu) - Henry Hub - JKM	2.85 10.55	Range	HH: → Rising US LNG export <u>JKM:</u> ▼ High seasonal price in Q1/18 tend to normalize
Oil Price (\$/bbl) Dubai Price	63.9	Range	 Geopolitical risks: U.S. re-imposed sanction on Iran Healthy global demand, especially in emerging Asia OPEC/Non-OPEC maintain compliance to output cut throughout 2018 Surging US shale oil production
Refinery Margin (\$/bbl) Singapore GRM	7.00	Range ▼ 6.8 – 7.0	 Higher crude prices pressure crack spread New refining capacity in China and Vietnam Higher fuel demand from healthier economic growth Lower FO demand in power plant (Pakistan, Egypt and Iran)
Petrochemical (\$/ton) - Olefins (HDPE, PP) - Aromatics (PX, BZ)	HDPE=1379 PP = 1256 PX-Naphtha = 383 BZ-Naphtha = 310	HDPE = 1301 PP = 1228 PX-Naphtha = 360-370 BZ-Naphtha = 265-275	Olefins: ▼ More PE supply from US in 2H/18 ▼ New PP capacity from China and Vietnam ▲ Continuous growth in global economy ▲ Aromatics: ▼ Higher feedstock cost (Naphtha) ▼ Additional BZ supply (Petro Rabigh, Nghi Son) and high inventory in China







WHAT'S NEX

<u>Q1/2018</u>

- Gas price start to increase following oil price
- PTTEP Higher selling price despite lower vol.
- Gas Improved performance from all segments
- Oil Higher margins & vol.
- P&R Weaken A/C GRM & Petchem spreads
- GPSC Fully operated IRPC-Clean Power
- Coal Weaken from tax issue

Outlook 2018

- Solid global economic growth
- Oil price 66 71 \$/bbl & higher gas price
- Bidding expiring concession to conclude end of 2018
- GSP 3 Major Turnaround in Q3/18
- Transfer Oil BU assets to PTTOR
- Weaken both Olefins & Aromatics
- NGV's price partially lifting
- Mozambique gas?





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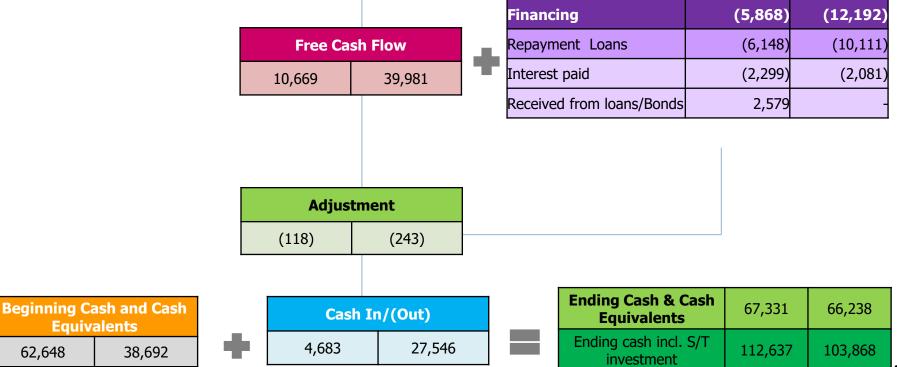
Statements of Cash Flows (PTT Only) : Q1/2018



Operating	Q1/2017	Q1/2018	
Operating	7,868	25,256	
Net Income	31,572	20,674	
Changes in assets & liabilities	(17,564)	(4,036)	
Income Tax	(320)	(321)	
Non-Cash Adjustment	(5,820)	8,939	

62,648

Investing	Q1/2017	Q1/2018
Investing	2,801	14,725
CAPEX (PP&E, Intangible asset)	(5,288)	(7,121)
Investment (Sub.& Affiliates & Others)	(4,287)	(35,432)
Current investment	13,071	35,327
Dividend/Interest Received	5,212	1,251
Others	(5,907)	20,700



PTT Group Performance : Q1/2018 (YoY)



Unit : MMTHB		Performance 100%			% PTT holding	Equity Method % PTT		РТТ
		<u>Q1/17</u>	<u>Q1/18</u>	<u>YoY</u>		<u>Q1/17</u>	<u>Q1/18</u>	<u>YoY</u>
PTT Net oper	rating Income	22,893	19,195	-16%		22,893	19,195	-16%
<u>E&P</u>	- PTTEP	12,284	13,381	9%	65.29%	8,020	8,727	9%
Petrochemic	<u>al</u>	15,449	12,484	-19%		7,725	6,250	-19%
	- PTTGC	13,182	12,388	-6%	48.73%	6,617	6,152	-7%
	- PTTTANK/HMC/PTTPL/PTTPM/PTTAC/PTTMCC/PMMA*	2,267	96	-96 %		1,108	98	-91%
<u>Refining</u>		9,440	8,360	-11%		4,645	4,365	-6%
	- TOP	7,075	5,608	-21%	49.06%	3,674	2,850	-22%
	- IRPC	2,365	2,752	16%	48.05%**	971	1,515	56%
Others Busin	iess	4,520	9,256	105%		2,885	1,251	-57%
<u>Inter</u>	- PTTER, PTTGE, PTTGM	201	5,477	2625%	100%	146	(819)	-661%
<u>Gas</u>	- PTTLNG/PTTNGD/ TTM(T)/ TTM (M)	2,144	1,888	-12%		1,676	1,489	-11%
Utilities	-GPSC/ TP/ DCAP/Others	1,201	1,342	12%		295	342	16%
<u>Oil & Oth.</u>	- PTTT/PTTOR/THAPPLINE/Others	974	549	-44%		768	239	-69%
Shared of Ne	et Income from Affiliates	41,693	43,481	4%		23,275	20,593	-12%
PTT Conso. N	let Income	64,586	62,676	-3%		46,168	39,788	-14%

*On Jul 3, 2017 PTT transferred all stake in HMC/PTTPL/PTTPM/PTTAC/PTTMCC and the Projects' Study Results of PTTPMMA to PTTGC ** Since Feb 21,2018, PTT hold 48.05% in IRPC

PTT Group Performance : Q1/2018 (QoQ)



Unit : MMTHB		Performance 100%			% PTT holding	Equity Method % PTT		РТТ
		<u>Q4/17</u>	<u>Q1/18</u>	<u>QoQ</u>		<u>Q4/17</u>	<u>Q1/18</u>	<u>QoQ</u>
PTT Net ope	rating Income	19,570	19,195	-2%		19,570	19,195	-2%
<u>E&P</u>	- PTTEP	9,441	13,381	42%	65.29%	6,160	8,727	42%
Petrochemic	al de la constant de	9,619	12,484	30%		4,762	6,250	31%
	- PTTGC	9,558	12,388	30%	48.73%	4,700	6,152	31%
	- PTTTANK/HMC/PTTPL/PTTPM/PTTAC/PTTMCC/PMMA*	61	96	57%		62	98	58%
<u>Refining</u>		11,440	8,360	-27%		5,496	4,365	-21%
	- TOP	6,927	5,608	-19%	49.06%	3,604	2,850	-21%
	- IRPC	4,513	2,752	-39%	48.05%**	1,892	1,515	-20%
Others Busir	<u>iess</u>	5,767	9,256	60%		(624)	1,251	300%
Inter	- PTTER, PTTGE, PTTGM	2,320	5,477	136%	100%	(2,565)	(819)	68%
<u>Gas</u>	- PTTLNG/PTTNGD/ TTM(T)/ TTM (M)	1,570	1,888	20%		1,227	1,489	21%
<u>Utilities</u>	-GPSC/ TP/ DCAP/Others	1,144	1,342	17%		296	342	16%
<u>Oil & Oth.</u>	- PTTT/PTTOR/THAPPLINE/Others	733	549	-25%		418	239	-43%
Shared of Net Income from Affiliates		36,267	43,481	20%		15,794	20,593	30%
PTT Conso.	Net Income	55,837	62,676	12%		35,364	39,788	13%

*On Jul 3, 2017 PTT transferred all stake in HMC/PTTPL/PTTPM/PTTAC/PTTMCC and the Projects' Study Results of PTTPMMA to PTTGC ** Since Feb 21,2018, PTT hold 48.05% in IRPC



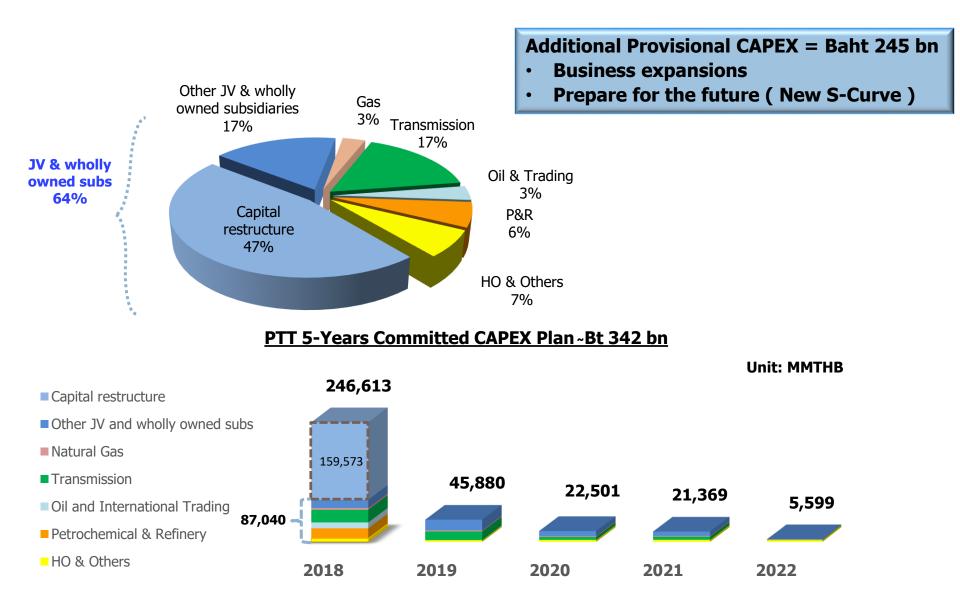
		Debt F	Portfolio		
Unit : MMTHB	PTT Only	,	Consolidated		
	: Cost of debts ~ 5.1 : % fixed-rate ~ 74% : Avg. debt life ~ 9.0	/o	: Cost o : % fixe : Avg. d	ars	
USD&Othe	er				
THB			576,492		
				505,601	487,560
			250,968 (44%)	194,284 (38%)	173,532 (36%)
228,837					
81,245 (36%)	174,367 45,088 (26%)	163,019 33,754 (21%)	325,524 (56%)	311,317 (62%)	314,028 (64%)
147,592 (64%)	129,279 (74%)	129,265 (79%)			
31 Dec 16	31 Dec 17	31 Mar 18	31 Dec 16	31 Dec 17	31 Mar 18

Note : Data as of 31 Mar 18 (THB/USD = 31.4063 THB/JPY = 0.297795 Excluding liabilities from finance leases; Cost of debts includes withholding tax.

Cost of debts, % fixed rate, and avg. debt life took into account the derivative transactions. Debt outstanding is reconciled with accounting.

PTT: Committed CAPEX (PTT and Wholly Owned Subsidiaries)

PTT plans to invest ~Bt 342bn* (\$10bn) during 2018-2022



* 2018-2022 budget approved by BOD on 22 Dec 17

PTT is firmly committed to pay dividend at no less than 25% of net income 148.6% Dividend payout 49.0% 42.8% 54.1% 43.6% 40.4% 34.7% 34.9% 35.5% 40.0% 32.4% 32.6% 29.8% 30.1% 30.3% 30.8% 33.0% 25% 46.74 PTT's minimum payout ratio **Baht / share** EPS 36.58 37.24 34.14 34.82 32.68 32.52 30.57 29.58 22.40 21.06 20.34 **20**.00 18.33 **16**.00 13.43 **13**.00 **13**.00 DPS **13**.00 **11**.50 **11.**00 10.00 **10**.50 **10**.25 **9.**25 8.75 <mark>8</mark>.50 7.71 **8.**00 6.<mark>73</mark> **6.**75 **4.**00 **2**.85 2.50 201735 2009 2001 2002 2003 2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016

Dividend Policy & Historical Payments







Data as of 31 Mar 2018

E&P and Gas Business Group	Oil Business Group	Petrochemicals & Refining Business Group
SubsidiariesConsolidatePTT Exploration & Production Plc.PTTEP65.29%PTT Natural Gas Distribution Co., Ltd.PTTEP65.29%PTT LNG Co., Ltd.PTTINGD58.00%PTT LNG Co., Ltd.PTTING 100.00%Thai Oil Power Co., Ltd.*TP26.00%Global Power Synergy Co., Ltd*GPSC22.58%PTT Global LNG Co., LtdPTTGL50.00%Joint VenturesTrans Thai-Malaysia (Thailand) Co., Ltd.TTM (T)Trans Thai-Malaysia (Malaysia) Sdn. Bhd. TTM (M)50.00%District Cooling System and Power PlantDCAP35.00%	PTT (Cambodia) Co., Ltd.PTTCL100.00%PTT Oil & Retail Business Co., Ltd.PTTOR100.00%Thai Lube Blending Co., Ltd.TLBC**48.95%PTT Oil Myanmar Co., Ltd.PTTOM100.00%AssociatesEquityThai Petroleum Pipeline Co., Ltd.THAPPLINE40.53%PetroAsia (Thailand) Co., Ltd.PA(Thailand)35.00%OthersCostPetroAsia (Maoming) Co., Ltd.PA(Maoming)20.00%	PTT Energy Solutions Co., Ltd.* PTT Tank Terminal Co., Ltd.PTTES 40.00% PTTTANK 100.00%Refining Subsidiaries Thai Oil Plc.*

International Trading Business Group	International Investment				
SubsidiariesConsolidatePTT International Trading Pte.PTTT100.00%PTT International Trading London LtdPTTTLDN100.00%	SubsidiariesConsolidatePTT Energy Resources Co., Ltd.PTTER100.00%PTT Green Energy Pte. LtdPTTGE100.00%PTT Global Management Co., Ltd.PTTGM100.00%				
Others					
SubsidiariesConsolidateEnergy Complex Co., Ltd.EnCo50.00%Business Service Alliance Co., Ltd.BSA *100.00%PTT Regional Treasury Center Pte.Ltd. PTTRTC100.00%PTT Digital Solutions Co., Ltd.*PTT DIGITAL20.00%	OthersCostSarn Palung Social Enterprise Company Ltd.PTTSE20.00%OthersFair ValueDhipaya Insurance Plc.TIP13.33%				

Remark : *The companies have changed their status to subsidiaries due to impact from PACK 5 ** Subsidiaries that PTT holds less than 50% but being consolidated because PTT has the power to control the financial and operating policies.

Natural Gas Price Structure : Jan-Mar 2018

Gas prices are mostly agreed under long-term contracts and volatility pass-through to ensure stable returns.

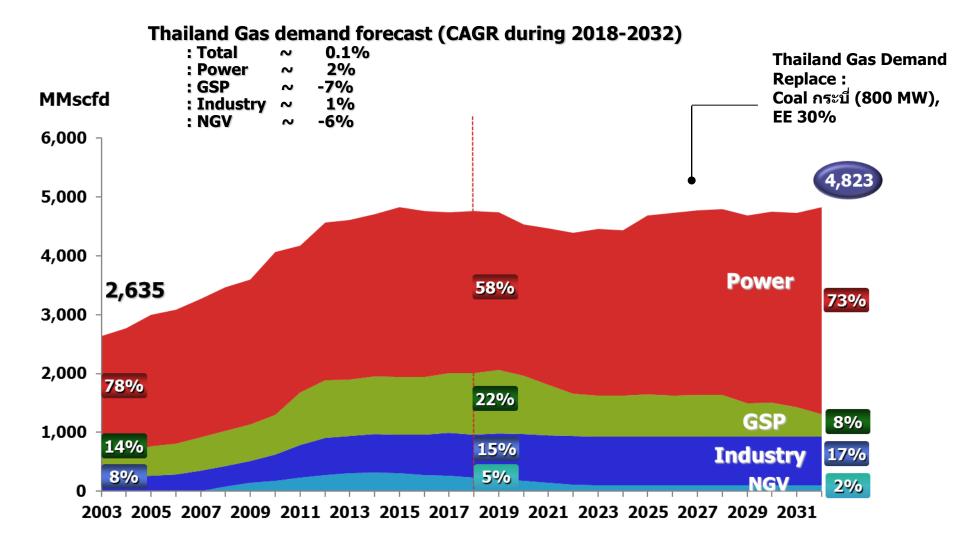


Customers			Sales Price Structure					
		Gas Pool Price	+	Supply Margins	+	Pipeline Tariffs		
Power Produc	cers 57%			1.75% *				
: EGAT	14%	Average Purchased		1.75% *		21.9 Bt/MMBtu		
: IPP	17%	Gas Price		9.33% *				
: SPP	26%	* EGAT IPP and SPP Supply	* EGAT IPP and SPP Supply Margins not more than 2.1525 and 11.4759 respectively					
GSP	22%	Charged at the same	Charged at the same price structure of power producers					
Petroche	micals Feedstocks							
Ethane	, Propane, LPG	Profit-sharing mechanism based on market prices of petrochemicals						
NGL		Reference to Naphth	Reference to Naphtha market price					
Local Co	oking Gas	At GSPs cost (adjust	At GSPs cost (adjusted every 3 months)					
Export Cooking Gas		Reference to Saudi A	Reference to Saudi Aramco's contract price					
Industry	16%	Charged at prices co	Charged at prices comparable to fuel oil					
NGV	5%	 but operating cost Since 5 Sep 2017 quality improvement 	 Since 16 Jul 2016 : The retail price is set to reflect the natural gas cost but operating cost is still regulated. Since 5 Sep 2017 : Allowance to adjusted +0.46 Baht/Kg. for gas quality improvement cost NGV retail Price as of 31 Mar 18 = 13.57 Baht/Kg. 					

• Contract periods are ~ 25-30 years or until depletion of gas fields or the expiration of concessions

Natural Gas : Growth of natural gas upon Government fuel diversification policy for power generation





Gas Business Generates Stable Returns



Overview

Gas transmission pipeline capacity

- Sole owner and operator of entire gas transmission pipelines in Thailand (~ 4,000 km), a regulated business
 - IRROE ranges between
 12.5% 18% for transmission
 pipeline investment
- Supply & marketing of natural gas provides fixed margin with long-term contracts of 25-30 years
- 6 Gas Separation Plants; Total production 6.7 MTA; are on petrochemical market price-linked profit sharing basis

