





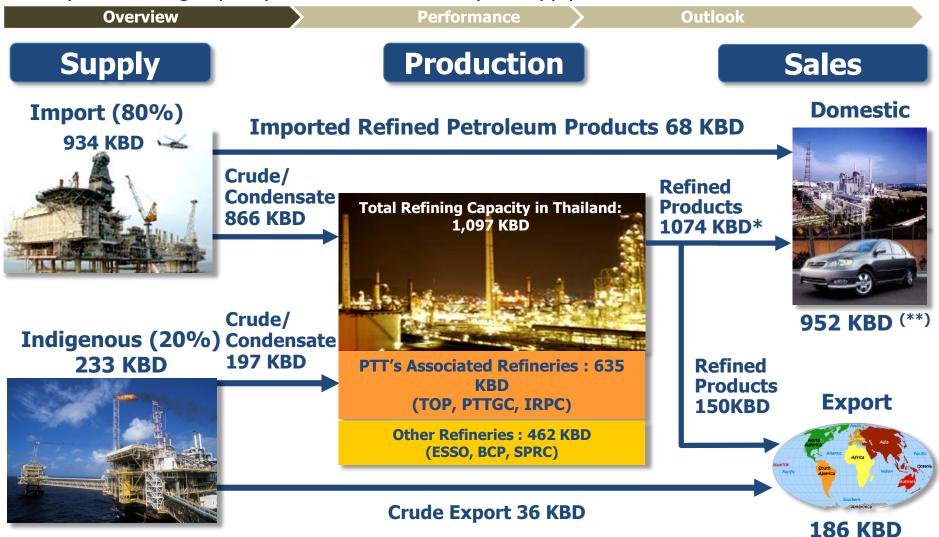


Q1/2017 Performance

Outlook 2017

Oil Balance Thailand: Jan - Mar 2017

Adequate refining capacity maintains the stability of supply



Source: PTIT

Remark : (*)Refined product from refineries = 964 KBD, including domestic supply of LPG from GSPs and Petrochemical Plants = 110 KBD

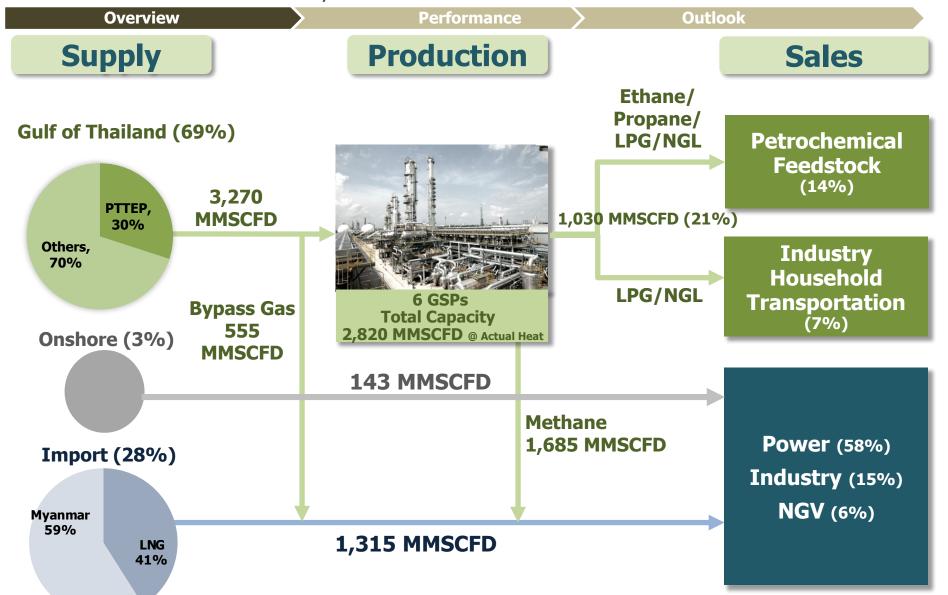
(**) Not included Inventory

KBD = Thousand Barrels per day

Natural Gas Balance: Jan – Mar 2017

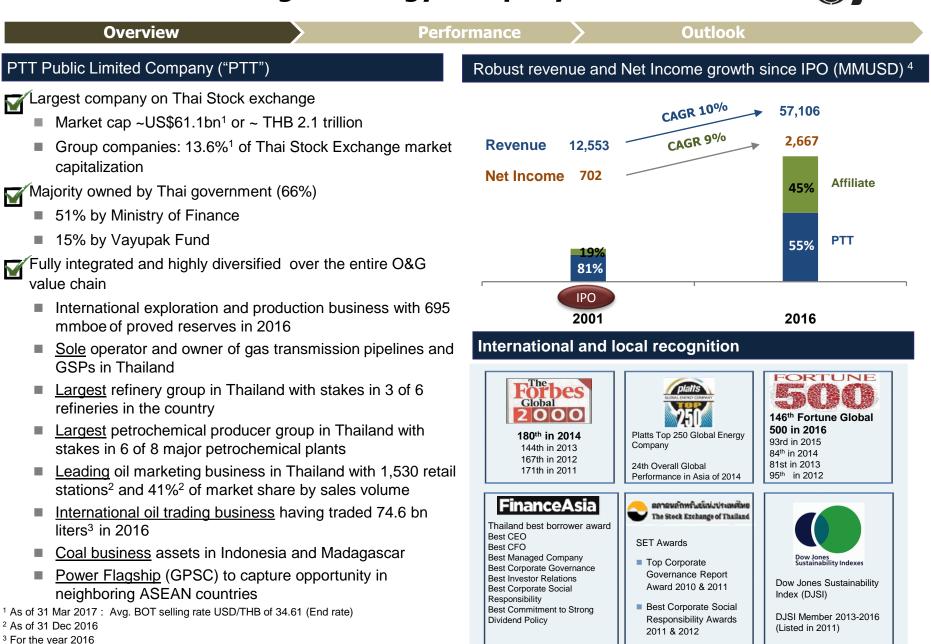
Main driver of the Thai economy





PTT is Thailand's Largest Energy Company

⁴ As of 31 Dec 2016 : Annual Avg. BOT selling rate USD/THB of 35.47 (Avg. rate)



PTT's Strategic Importance to Thailand





Note: As of Apr 2017

S&P rating	BBB+	BBB+	BBB	BBB	BB+	BBB-	-	-
Moody's rating	Baa1	Baa1	Baa2	Baa1	Ba1	N.A.	-	-
% of SET	7.1%	2.4%	2.1%	1.0%	0.7%	0.3%	13.6%	86.4%
Market cap (BNUSD) ²	31.9	10.6	9.5	4.5	3.0	1.5	61.1	386.5
	PTT	PTTEP	PTTGC	ТОР	IRPC	GPSC	Total	Others
Largest market cap on the Thai Stock Exchange								

¹ The Vayupak Fund is a registered investment management fund in Thailand in which the Government is a major unit holder. The Government has rights of first refusal with respect to any of our shares to be sold by the fund. Although the fund's shareholding may be considered to be beneficially owned by the Government under international standards, such shares are not considered to be owned by the Government for the purposes of Thai law or our compliance with certain of our debt covenants

² As of 31 Mar 2017 : Avg. BOT selling rate USD/THB of 34.61 (End rate)

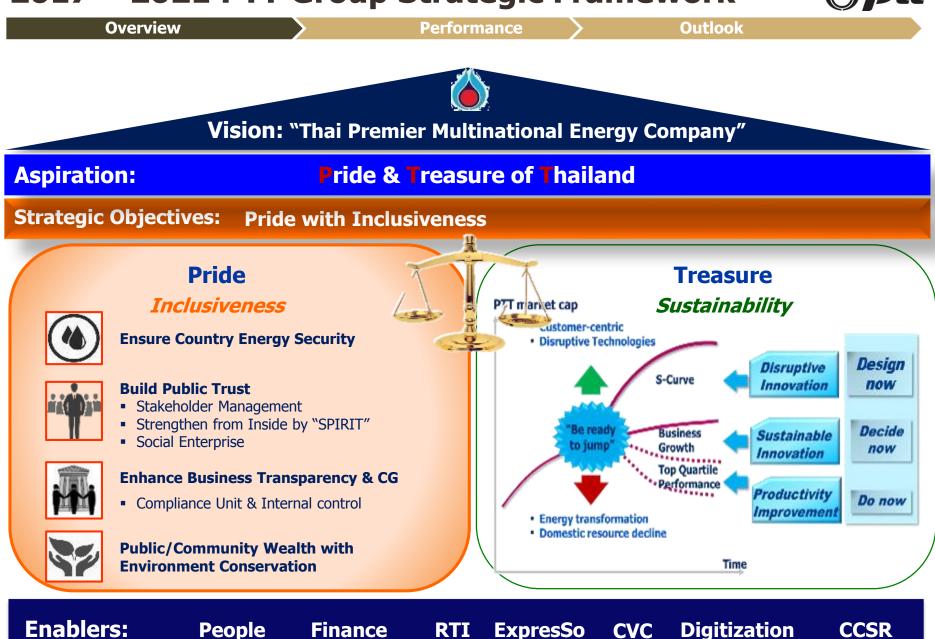
Our Major Businesses & Activities

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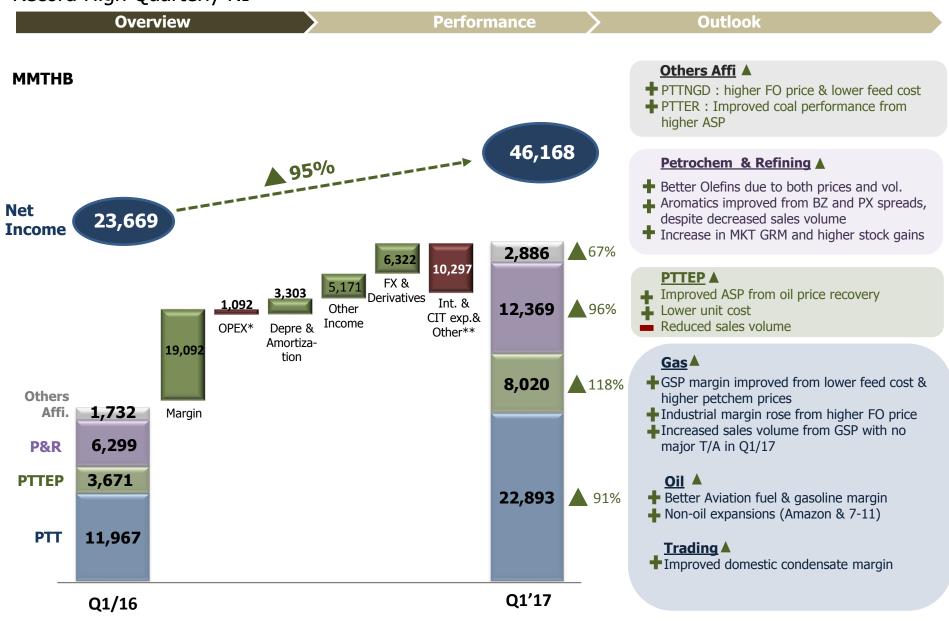
	Overview	Pe	erformance	Outlook
	Business Areas	Company	PTT's holding (%	b) Activities
Upstream	E&P	РТТЕР	65.29%	Exploration and Production
Upst	Coal	PTT Energy Resource	ces 100%	Coal Business
te		PTT PLC		
dia		Gas Pipeline	100%	Sole owner/operator of the Transmission pipeline
me	Gas	• S&M	100%	Supply & Marketing of Natural Gas
Intermediate		• GSP	100%	Extracting Hydrocarbon contents in NG for Petrochemical's feedstock
	Oil Marketing	• Oil Marketing	100%	Retail service Stations and commercial Marketing
Downstream	Int'l Trading	 Int'l Trading 	100%	Import/Export/Out-Out trading of petroleum and petrochemical products
str				
S S S S S S S S S S S S S S S S S S S		PTTGC	48.91%	Petrochemical Flagship
Ó	Petrochemical	ТОР	49.10%	Refinery Flagship
	& Refining	IRPC	38.51%	Integrated Refinery & Petrochemical
Ire				
Jotu				
ıfrastructure	Power	GPSC	22.58%	Power Flagship

2017 – 2021 PTT Group Strategic Framework



Q1/2017 Performance:

Record High Quarterly NI



* including petroleum exploration expenses and royalties

** including profit from discontinued operation





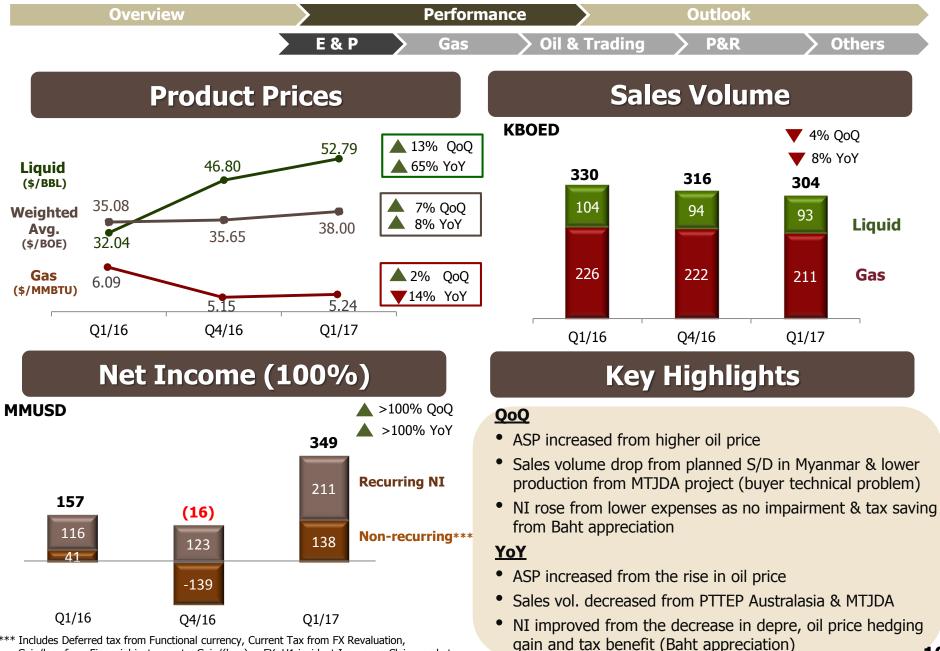


Q1/2017 Performance

Outlook 2017

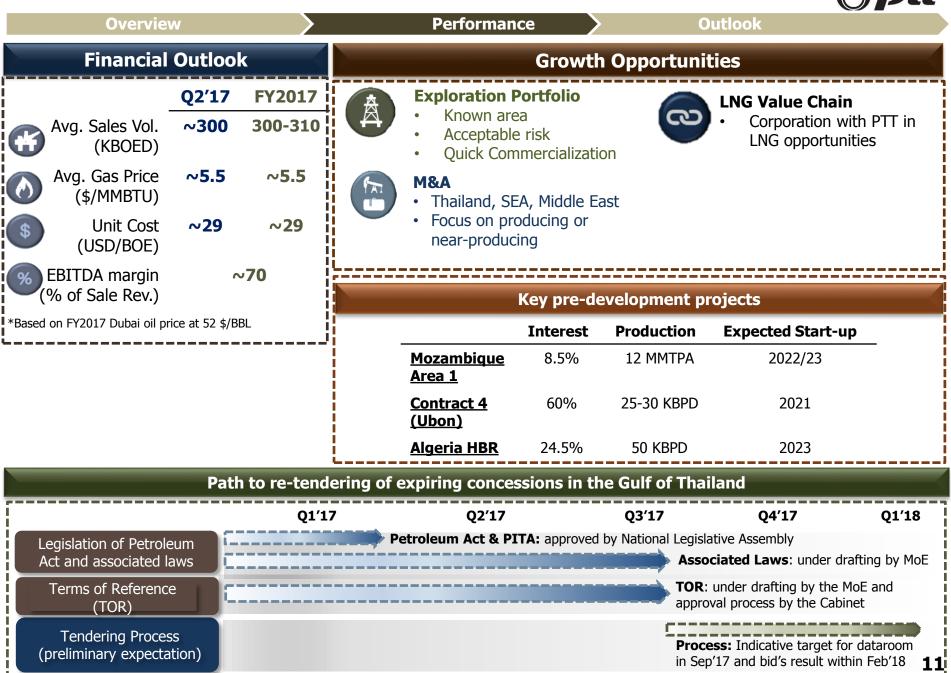
E&P: Solid performance from recovery in sales price and lower unit cost





*** 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.

E&P: Guidance & Outlook



PTT EBITDA Breakdown by BU's:

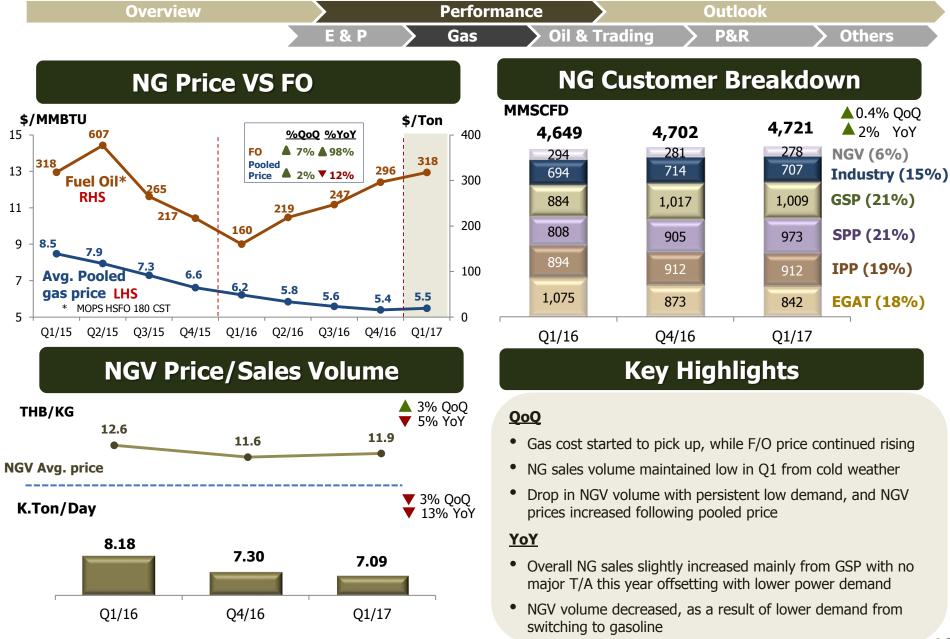
		-					
Overview		Performa	nce	Οι	ıtlook		
				_	(Uni	t:MM	ITHB)
Business Unit	Q1/16	Q4/16	Q1/17	Q	ϨοϘ	Y	γ
Gas- EBITDA	14,562	20,472	22,490		10%		54%
• S&M	1,365	2,277	3,602		58%		164%
• TM	8,431	7,717	8,737		13%		4%
• GSP	3,497	8,301	7,698	₽	(7%)		120%
• NGV	(937)	(935)	(1,009)	₽	(8%)	₽	(8%)
• Others	2,206	3,112	3,462		11%		57%
Oil- EBITDA	5,687	4,243	5,931		40%		4%
Trading*- EBITDA	1,548	348	1,135		226%		(27%)
Total**	21,797	25,063	29,556		18%		36%

*MIS ** Included subsidiaries from all BUs

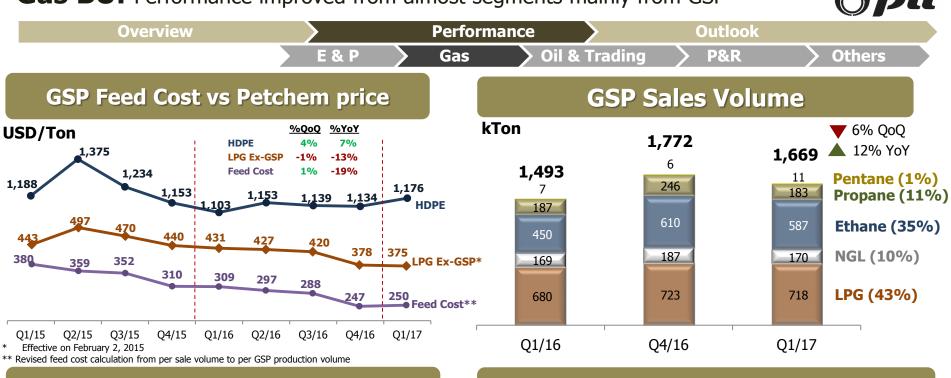


Gas BU: Pooled gas cost started to rise, and NG volume increased from GSP

\delta ptt



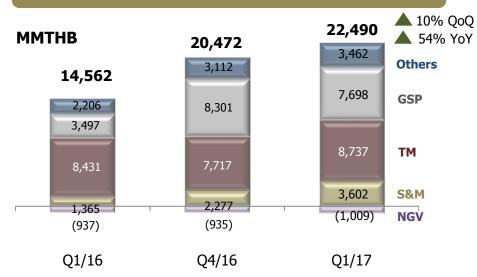
Gas BU: Performance improved from almost segments mainly from GSP



Gas - EBITDA

1,188

380



Key Highlights

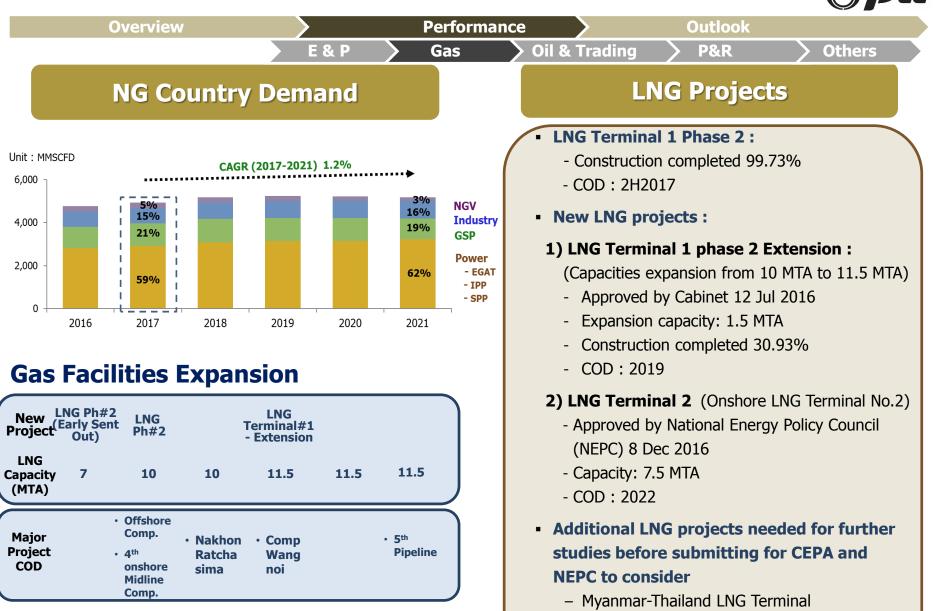
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- S&M rose from lower gas quality adjustment charged
- TM improved from slight increase in sales volume (SPP) and decreased expenses that usually high in Q4
- GSP dropped from decreased sales volume and higher feed cost.
- Gas BU's EBITDA improved mainly from S&M and TM

YoY

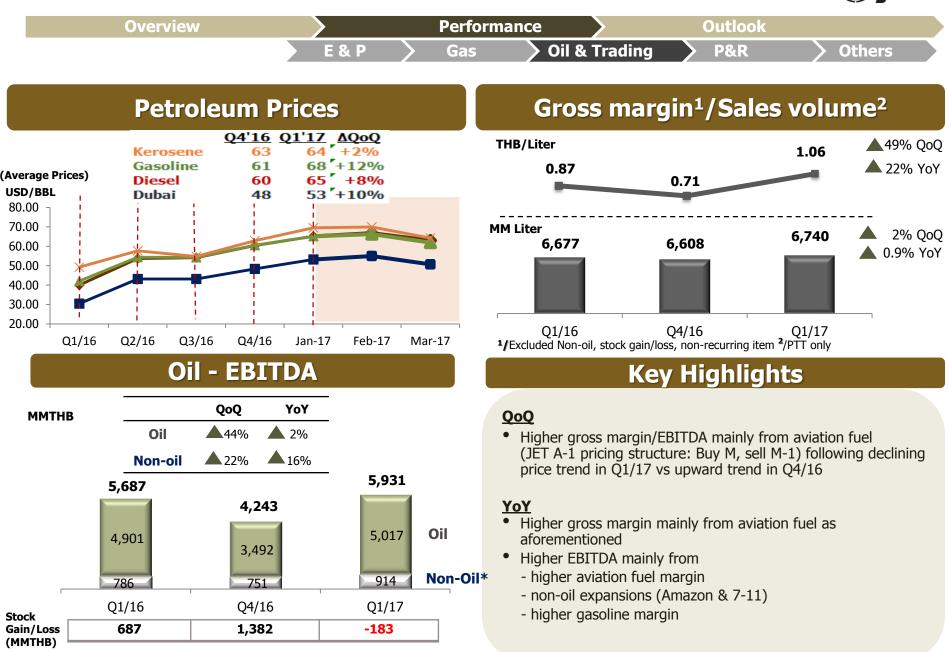
- GSP sharply improved from feed cost declined with higher selling price, as well as increased sales volume w/o major T/A
- S&M margin increased esp. in Industrial customers ٠
- Gas BU's EBITDA improved in almost all segments, despite NGV

Gas Business Roadmap



- FSRUs (domestic)
- Onshore LNG Terminal 3

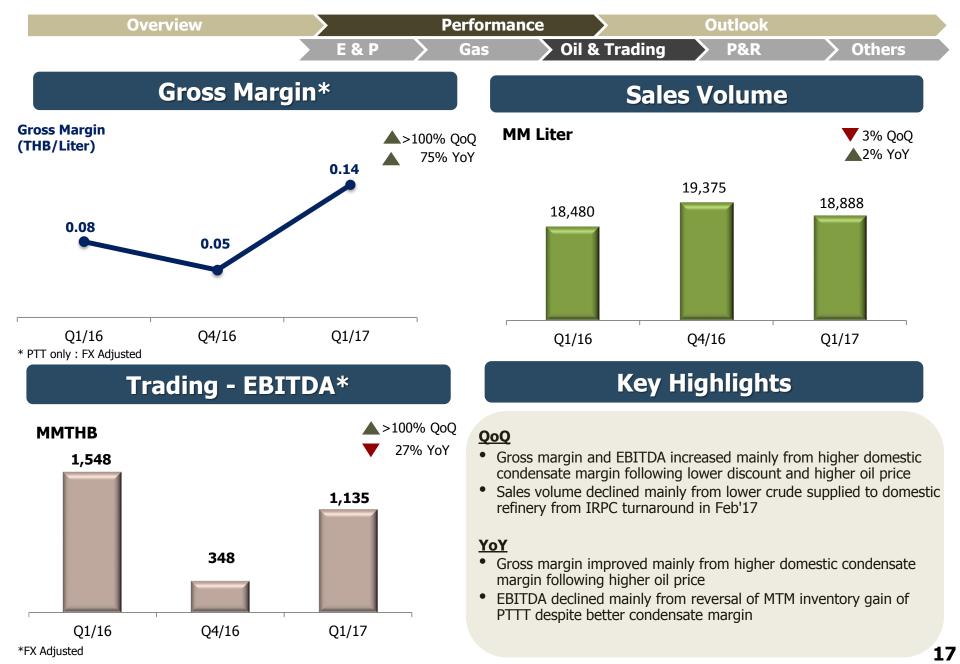
Oil BU : Better overall performance mainly from aviation fuel



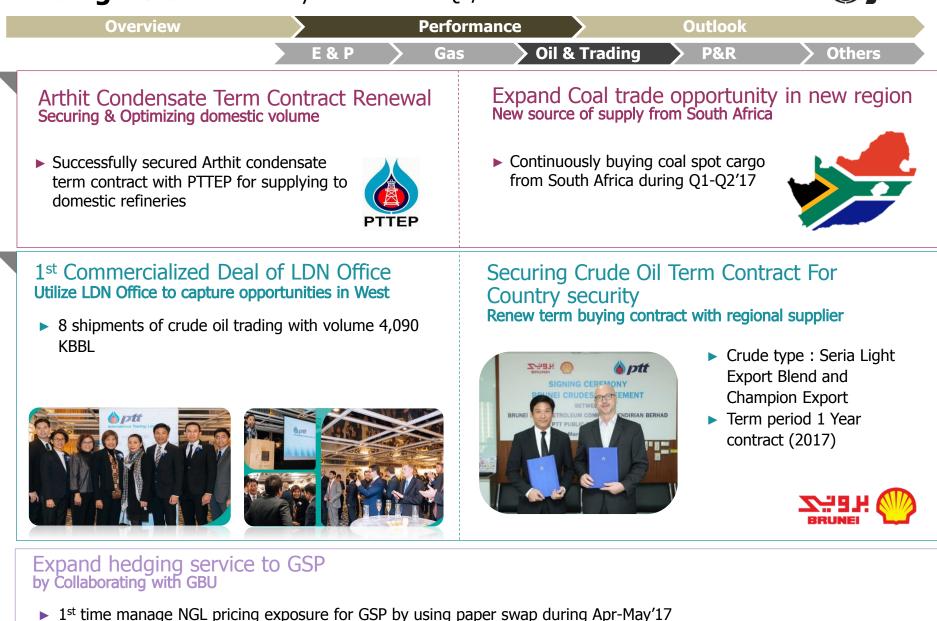
* Domestic only

Trading BU: Gross margin improved from better domestic condensate margin

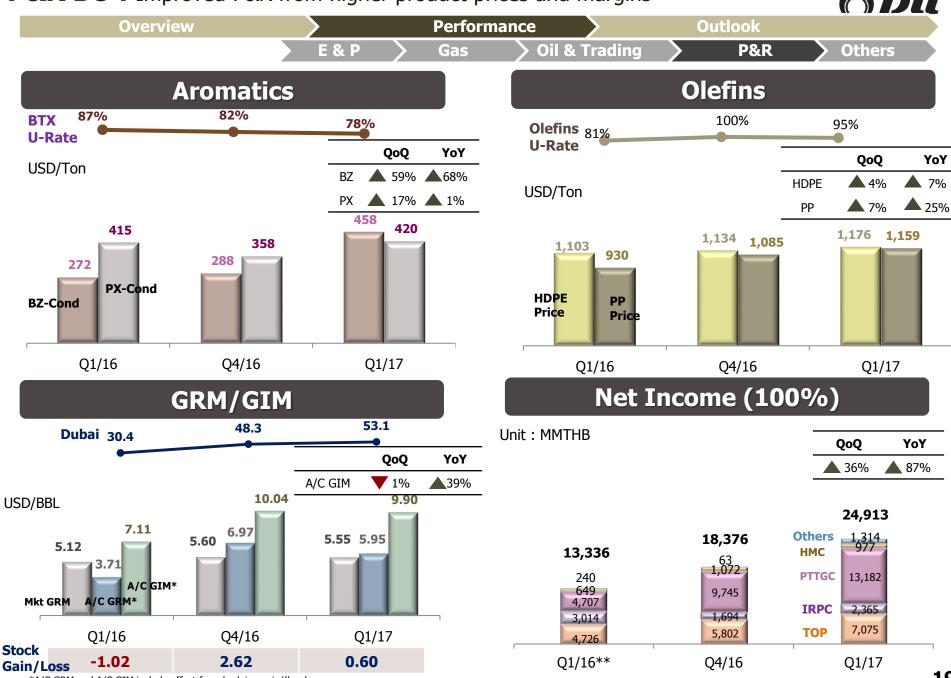




Trading BU & PTTT: Key Achievement Q1/2017

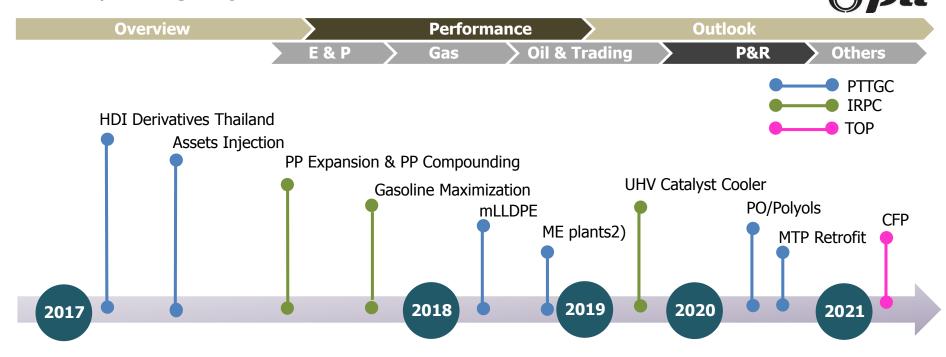


P&R BU : Improved P&R from higher product prices and margins



*A/C GRM and A/C GIM include effect from hedging gain/(loss)

P&R: Upcoming Projects

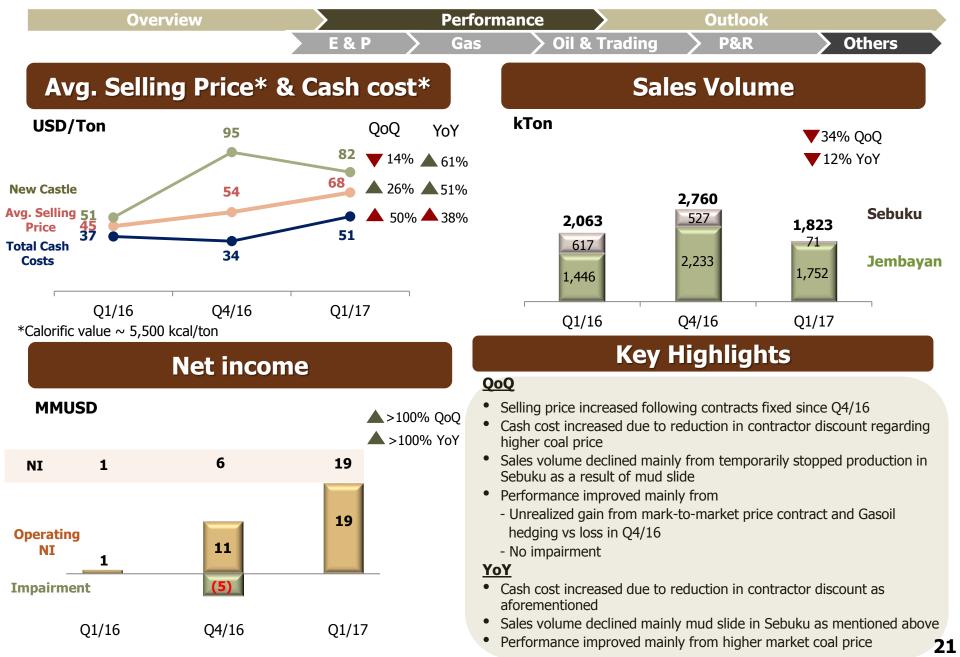


	HDI Thailand	Assets Injection	PP Expansion and PP Compounding	Gasoline Maximization	mLLDPE	ME plants2	UHV Catalyst Cooler	PO/ Polyols	MTP Retrofit	CFP
Capacity	HDI Derivatives (12 KTA)	HMC (PP 750 KTA) PTTAC (AN 200 KTA, MMA 70 KTA, AMS 160 KTA) PTTMCC (PBS 20 KTA)	РРЕ +160 КТА РРС +140 КТА	To capture domestic market gasoline deficit	mLLDPE (400 KTA) Hexane -1 (34 KTA)	Methyl Ester (200 KTA)	Flexibility of crude selection and fully optimized UHV operation	PO (200 KTA) Polyols (130 KTA)	Ethylene (500 KTA) Propylene (250 KTA)	upgrade lower value product into higher value product and ability to process heavier (cheaper) crude oil
CAPEX	44 MUSD	766 MUSD	236 MUSD	1,100 MB	288 MUSD	47 MUSD	1,390 MB	ТВА	ТВА	ТВА

Other Businesses : Coal - SAR

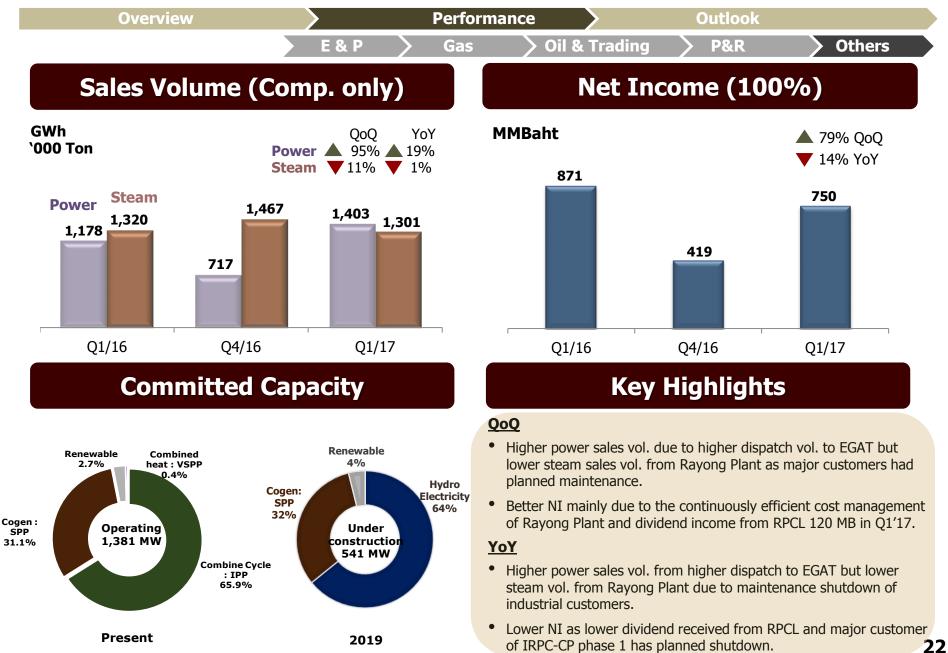
Better performance from higher market coal price despite higher cash cost





Other Businesses : Power - GPSC

Performance declined from lower dividend received



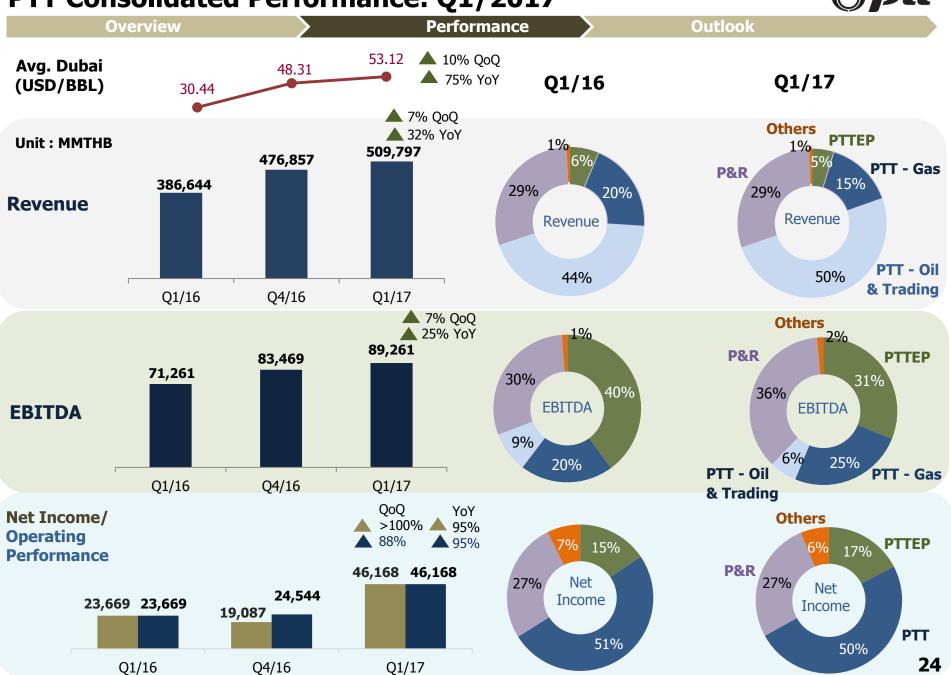
Other Businesses : Power – GPSC



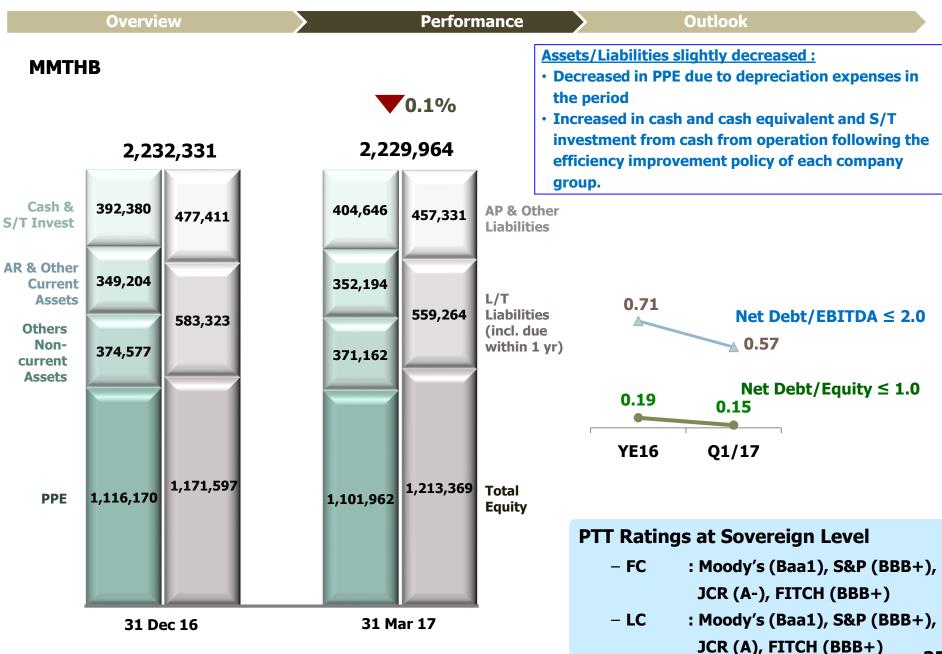


Project Highlight: 3 Projects to COD in 2017								
Project	Туре	Capacity	COD	Construction Progress as of Q1/17				
Bangpa-In Cogeneration Company Limited (BIC) Phase 2 (SPP)	Gas-Fired Power Plant	Electricity: 117 MWSteam: 20 T/h	Jun'17	86%				
IRPC-CP Phase 2 (SPP)	Gas-Fired Power Plant	Electricity: 240 MWSteam: 180-300 T/H	Q4′17	95%				
Ichinoseki Solar Power 1GK (ISP1) ICHINOSEKI SOLAR POWER 1 GK	Solar	• Electricity: 20.8 MW	Q4′17	37%				

PTT Consolidated Performance: Q1/2017



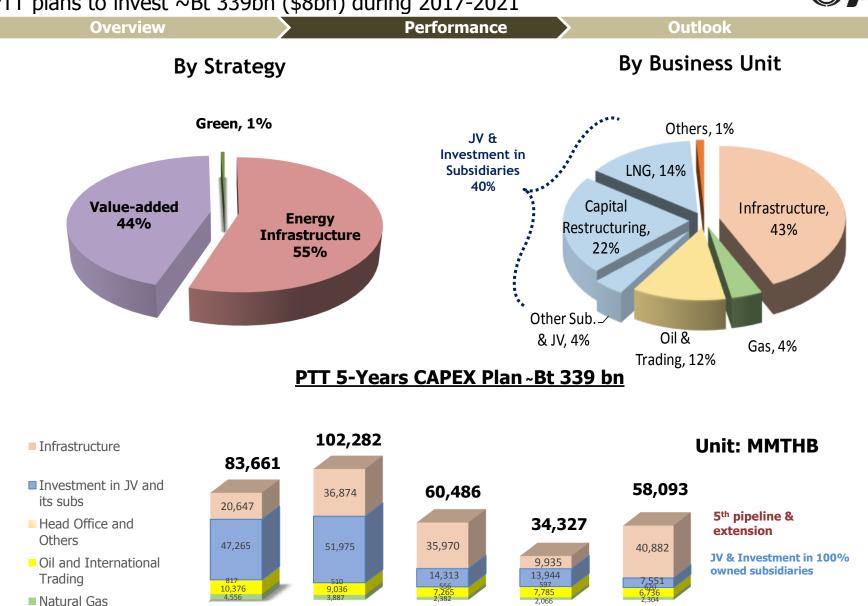
Statement of Financial Position



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PTT: CAPEX (PTT and Wholly Owned Subsidiaries)

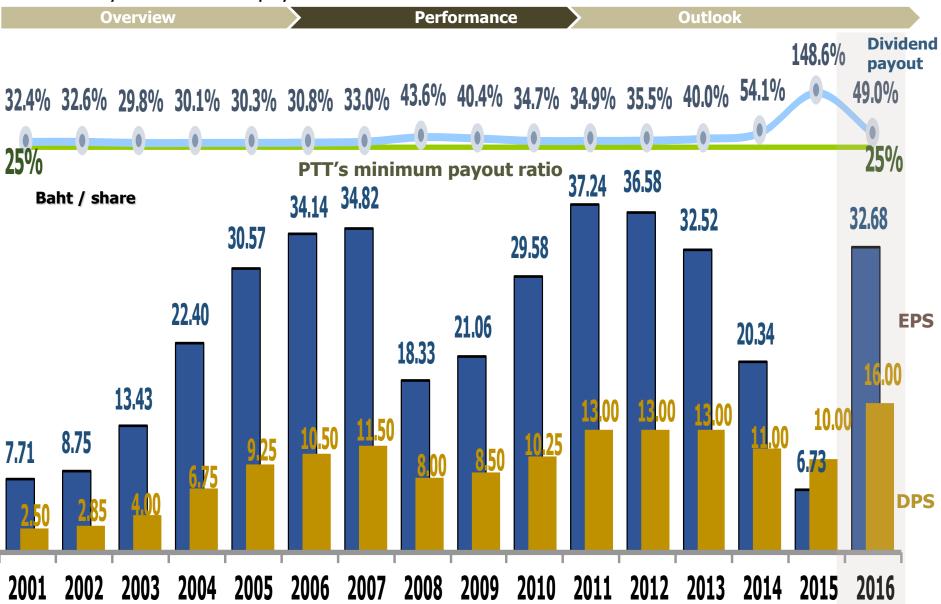
PTT plans to invest ~Bt 339bn (\$8bn) during 2017-2021



* 2017-2021 budget approved by BOD on 16 Dec 16

Dividend Policy & Historical Payments

PTT is firmly committed to pay dividend at no less than 25% of net income



Contents



Summary: Outlook 2017



Overview	>	Performance	o Outlook
Business	Q1 2017	2017 (Forecast)	Reason
Gas Price (\$/mmbtu) - Henry Hub - JKM	3.06 7.02	Range ▲ 3.2 – 3.8 ▼6.3 – 7.0	 Increase in US LNG export capacity & domestic consumption (coal-to-gas switching) JKM abnormal high from unplanned supply disruptions in Q1 (Australia, Brunei, Algeria)
Oil Price (\$/bbl) Dubai Price	53	Range 50-55	 Saudi & Russia agreed to extend production cut through to Q1 2018 A price-response of U.S. shale oil producers in ramping up output
Refinery Margin (\$/bbl) Singapore GRM	6.4	Range ▲ 6.3-7.0	 Higher regional refineries T/A (mostly postponed from last year) → lower supply Huge drop of 40% in China's oil product export quota → lower supply FO: Higher bunker demand due to economic recovery
Petrochemical (\$/ton) - Olefins (HDPE, PP)	HDPE-Naphtha =677 PP –Naphtha = 640	HDPE-Naphtha = 660-670 PP –Naphtha = 610-620	Olefin • New PE capacity from US & Saudi • New PP capacity mainly from China
- Aromatics (PX, BZ)	PX-Naphtha = 391 BZ-Naphtha = 423	• PX-Naphtha = 375-385 BZ-Naphtha = 325-335	 Aromatics PX → Additional capacity from India & Saudi (2H/2017) BZ → as Q1 spread was higher than normal due to China supply tightness and high Styrene Monomer (SM) price.







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Debt Profile : Control Cost & Manage Risk

Managed debt according to financial risk and policy



		Debt l	Port	folio				
Unit : MMTHB	PTT Only			C	Consoli	dated		
: Cost of debts ~ 4.73% : % fixed-rate ~ 71% : Avg. debt life ~ 8.29 years				: %	fixed-ra	ots ~ 4.5% ite ~ 68% life ~ 7.06 y		
USD&Other								
THB				625,321		576,492		552,827
				256,588 (41%)		250,968 (44%)		239,595 (43%)
265,245 81,154 (31%)	228,837 81,245 (36%)	220,451 76,043 (34%)		368,733 (50%)		325,524		313,232
184,091 (69%)	147,592 (64%)	144,408 (66%)		(59%)		(56%)		(57%)
31 Dec 15	31 Dec 16	31 Mar 17		31 Dec 15	I	31 Dec 16	I	31 Mar 17

Note : Data as of 31 Mar 17 (THB/USD = 34.6114 THB/JPY = 0.31127) 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.

Statements of Consolidated Cash Flows : Q1/2017

						*
Overview		Performan	ce	Outlool	<	
Operating	Q1/2016 76,811	Q1/2017 61,885		Investing	Q1/2016 (62,819)	Q1/2017 (55,858)
Net Income	23,669	46,168		CAPEX (PP&E, Intangible asset)	(32,540)	(26,209)
Changes in assets & liabilities	8,576	(28,335)		Investment (Sub.& Affiliates & Others)	(245)	(5,657)
Income Tax	(2,549)	(1,633)		Current investment	(29,481)	(30,198)
Non-Cash Adjustment	47,115	45,685		Dividend/Interest Received	1,217	6,226
				Others	(1,770)	(20)
			_			
	Free Cas	sh flow		Financing	(8,008)	(19,784)
	13,992	6,027		Repayment Loans	(8,597)	(14,825)
L. L				Interest paid	(7,074)	(6,889)
				Received from loans/Bonds	7,993	1,853
				Others	(330)	77
	Adjust	tment				
	3,871	(4,174)			1	
-						
Beginning Cash and Cash				Ending Cash & Cash Equivalents	249,833	197,635
Equivalents 239,978 215,566	Cash In 9,855	(17,931)		Ending cash incl. S/T investment	386,061	404,646

Statements of Cash Flows (PTT Only): 01/2017

Overview

Changes in assets & liabilities

Non-Cash Adjustment

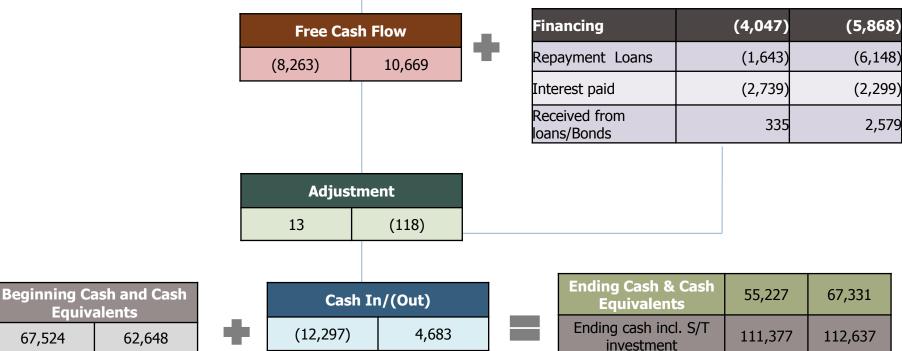
Operating

Net Income

Income Tax

67,524

	Perf	ormance Ou	ıtlook					
Q1/2016 21,480	Q1/2017 7,868	Investing	Q1/2016 (29,743)	Q1/2017 2,801				
18,282	31,572	CAPEX (PP&E, Intangible asset)	(5,584)	(5,288)				
3,443	(17,564)	Investment (Sub.& Affiliates & Others)	(39)	(4,287)				
,		Current investment	(21,241)	13,071				
(382)	(320)	Dividend/Interest Received	548	5,212				
137	(5,820)	Others	(3,427)	(5,907)				



PTT Group Performance : Q1/2017 (YoY)



Unit : MMTHB	Perfo	ormance 100	%	% PTT holding	Equity Method % PTT		
	<u>Q1/16</u>	<u>Q1/17</u>	<u>YoY</u>		<u>Q1/16</u>	<u>Q1/17</u>	<u>YoY</u>
PTT Net operating Income	11,967	22,893	91%		11,967	22,893	91%
<u>E&P</u> - PTTEP	5,625	12,284	118%	65.3%	3,671	8,020	118%
Petrochemical	5,596	15,473	177%		2,687	7,724	187%
- PTTGC	4,707	13,182	180%	49.3%	2,242	6,617	195%
- HMC/PTTPL/PTTPM/PTTAC/PTTMCC/PMMA/PTTTANK	889	2,291	158%		445	1,107	149%
Refining	7,740	9,440	22%		3,612	4,645	29%
- TOP	4,726	7,075	50%	49.1%	2,366	3,674	55%
- IRPC	3,014	2,365	-22%	38.5%	1,246	971	-22%
Others Business	3,258	4,650	43%		1,732	2,886	67%
Inter - PTTER, PTTGE	-348	202	158%	100%	-364	147	140 %
Gas - PTTLNG/PTTNGD/ TTM(T)/ TTM (M)	1,349	2,149	59%		1,228	1,676	36%
Utilities -GPSC/ TP/ DCAP/Others	1,408	1,201	-15%		365	295	-19%
<u>Oil & Oth.</u> - PTTT/SBECL/THAPPLINE/PTTRB/Others	849	1,098	29%		503	768	53%
Shared of Net Income from Affiliates	22,219	41,847	88%		11,702	23,275	99%
PTT Conso. Net Income	34,186	64,740	89%		23,669	46,168	95%

PTT Group Performance : Q1/2017 (QoQ)



Unit : MMTHB	Perf	ormance 10	0%	% PTT holding	Equity Method % PTT		
	<u>Q4/16</u>	<u>Q1/17</u>	<u>QoQ</u>		<u>Q4/16</u>	<u>01/17</u>	QoQ
PTT Net operating Income	12,240	22,893	87%		12,240	22,893	87%
<u>E&P</u> - PTTEP	-872	12,284	1509%	65.3%	-572	8,020	1502%
Petrochemical	10,880	15,473	42%		5,341	7,724	45%
- PTTGC	9,745	13,182	35%	49.3%	4,674	6,617	42%
- HMC/PTTPL/PTTPM/PTTAC/PTTMCC/PMMA/PTTTANK	1,135	2,291	102%		667	1,107	66%
Refining_	7,496	9,440	26%		3,421	4,645	36%
- TOP	5,802	7,075	22%	49.1%	2,793	3,674	32%
- IRPC	1,694	2,365	40%	38.5%	628	971	55%
Others Business	-138	4,650	3470%		-1,343	2,886	315%
Inter - PTTER, PTTGE	-4,109	202	105%	100%	-4,110	147	104%
Gas - PTTLNG/PTTNGD/ TTM(T)/ TTM (M)	1,798	2,149	20%		1,587	1,676	6%
Utilities -GPSC/ TP/ DCAP/Others	819	1,201	47%		167	295	77%
Oil & Oth PTTT/SBECL/THAPPLINE/PTTRB/Others	1,354	1,098	-19%		1,013	768	-24%
Shared of Net Income from Affiliates	17,366	41,847	141%		6,847	23,275	240%
PTT Conso. Net Income	29,606	64,740	119%		19,087	46,168	142%





Data as of 31 Mar 2017

E&P and Gas Business Group	Oil Business Group	Petrochemicals & Refining 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% Thai Oil Power Co., Ltd.* TP 26.00% Global Power Synergy Co., Ltd* GPSC 22.58% Joint Ventures Equity Trans Thai-Malaysia (Thailand) Co., Ltd. TTM (T) 50.00% District Cooling System and Power Plant DCAP 35.00%	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%AssociatesEquityKeloil-PTT LPG Sdn. Bhd.KPL40.00%Thai Petroleum Pipeline Co., Ltd. THAPPLINE40.40%PetroAsia (Thailand) Co., Ltd.PA(Thailand)35.00%	Petrochemical SubsidiariesConsolidatePTT Polymer Marketing Co., Ltd.PTTPM 50.00%PTT Polymer Logistics Co., Ltd.PTTPM 50.00%PTT PMMA Co., Ltd.PTTPL** 50.00%PTT Global Chemical Plc.*PTTGC 49.42%PTT Maintenance and Engineering*PTTGE 49.42%PTT Tank Terminal Co., Ltd.*PTTES 40.00%PTT Asahi Chemical O., Ltd.PTTANK 100.00%PTT Asahi Chemical Co., Ltd.PTTAC 48.50%PTT MCC Biochem Co., Ltd.PTTMC 41.44%PTT MCC Biochem Co., Ltd.PTTMC 50.00%Refining SubsidiariesConsolidateThai Oil Plc.*TOP 49.10%IRPC Plc.*Fair ValueStar Petroleum Refining Co., Ltd.SPRC 5.41%			

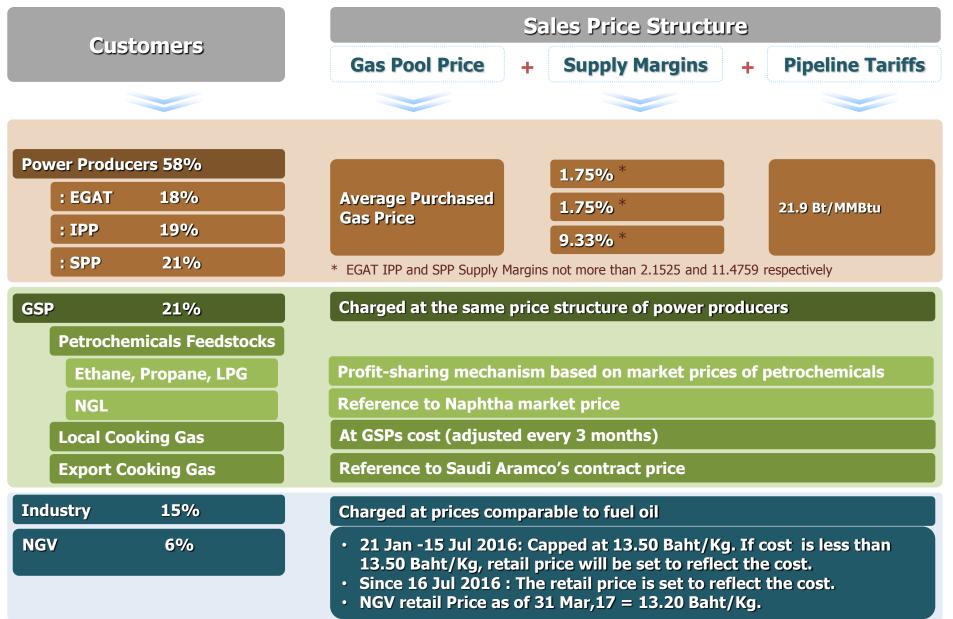
International Investment
SubsidiariesConsolidatePTT Energy Resources Co., Ltd.PTTER100.00%PTT Green Energy Pte. LtdPTTGE100.00%
ers
Others Fair Value Dhipaya Insurance Plc. TIP 13.33%

Remark : *The companies have changed their status to subsidiaries due to impact from PACK5 ** 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 2017

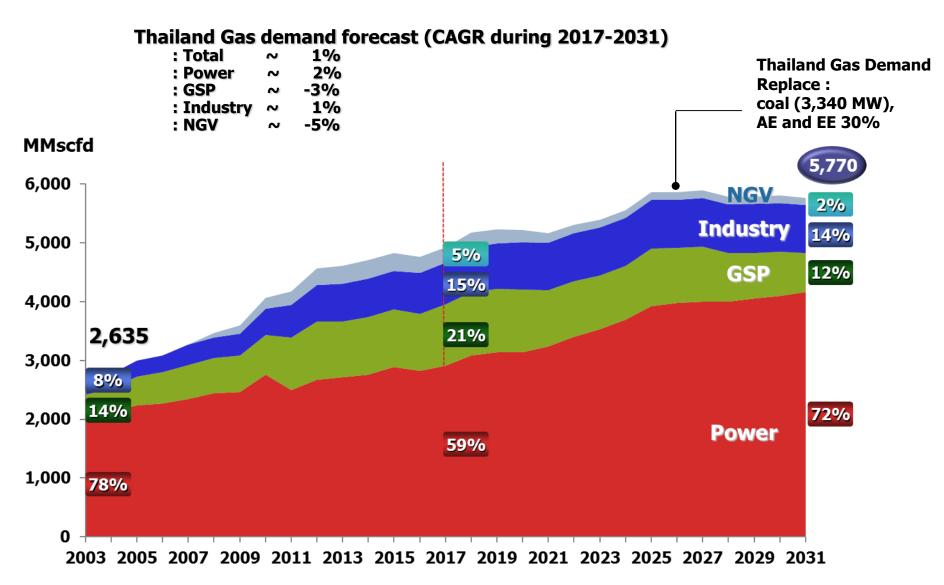
Gas prices are mostly agreed under long-term contracts and volatility pass-through to ensure stable returns.





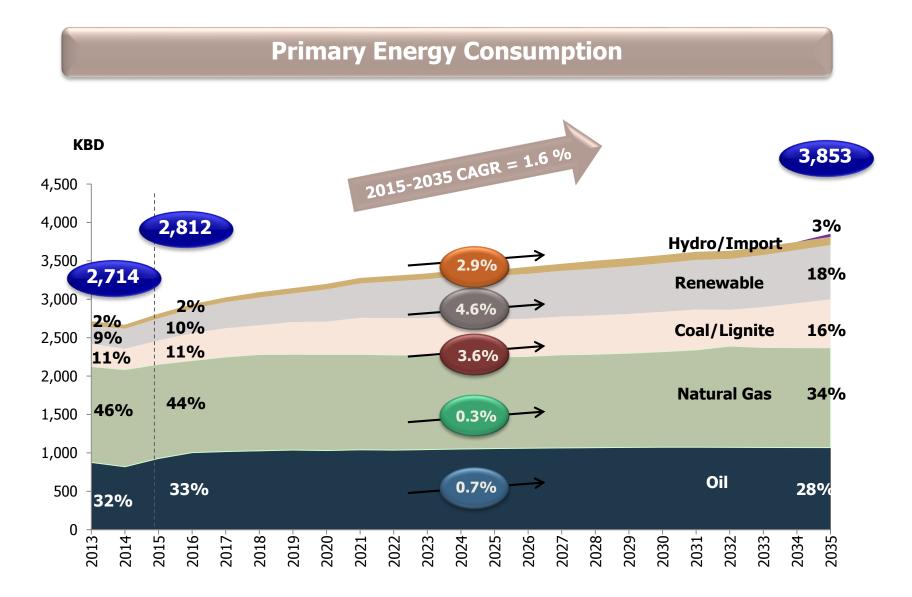
Contract periods are ~ 25-30 years or until depletion of gas fields or the expiration of concessions

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



Thailand's Projected Energy Demand





Gas Business Generates Stable Returns

Overview

- 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

Gas transmission pipeline capacity

