PTT Exploration and Production Public Company Limited

Q3 2017 Analyst Meeting Bangkok 6 November 2017

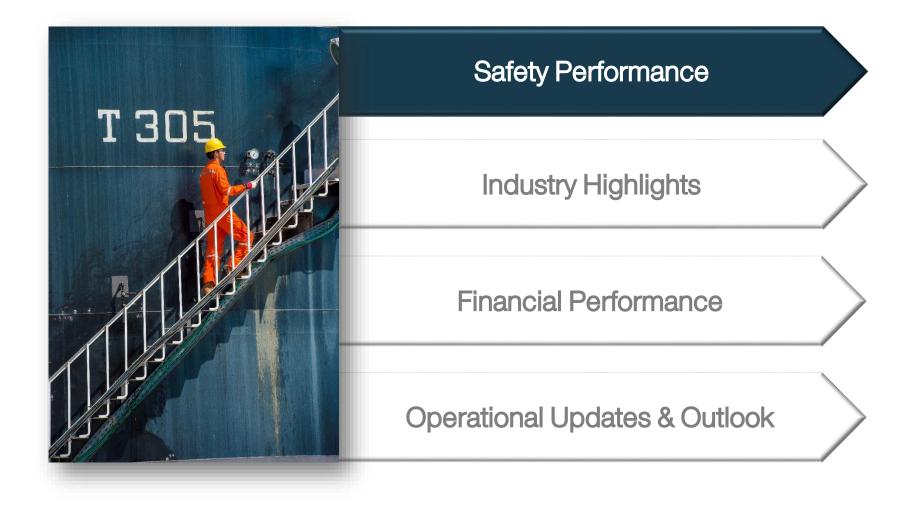


Dow Jones Sustainability Indices In Collaboration with RobecoSAM

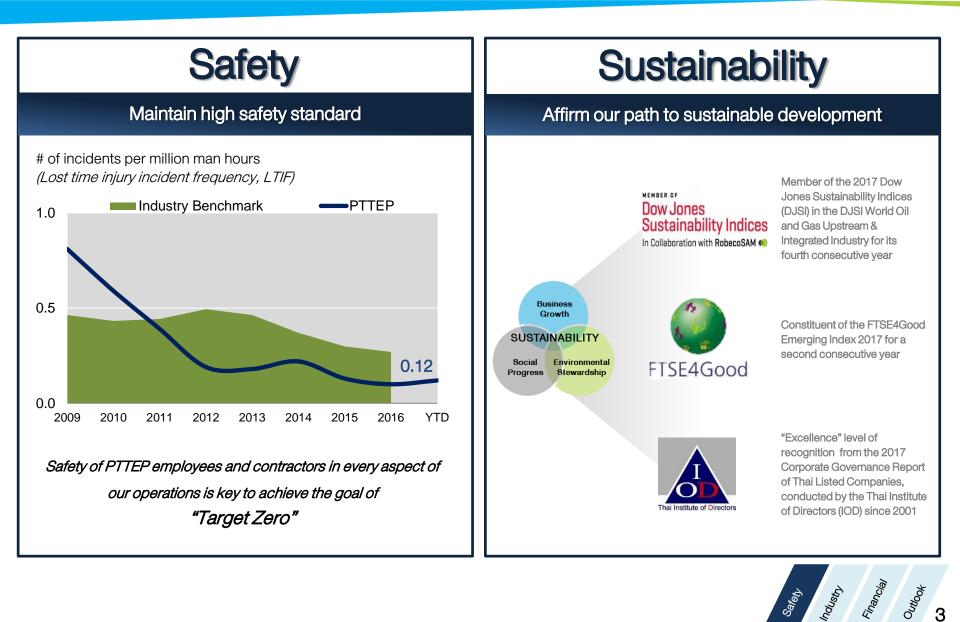










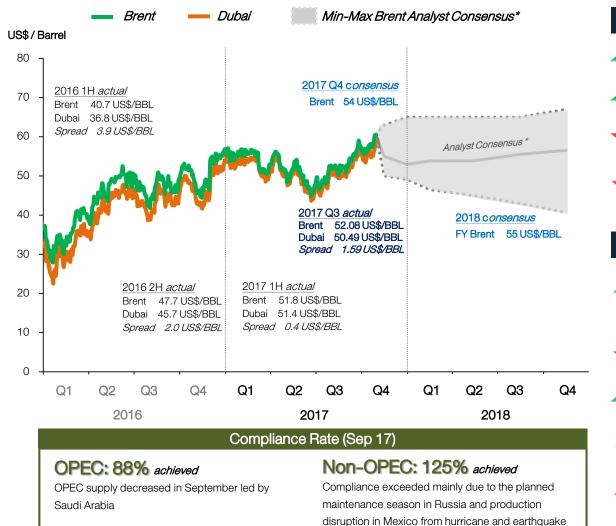










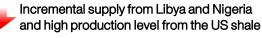


Q3 Highlights

Decrease in US crude oil inventory due to higher demand from driving season



Supply continued commitment led by Russia



Other pressures; tensions in North Korea, political tension between Iraq and Kurds, impacts from Hurricane in the US

Outlook from the Remainder of 2017

Production cut by OPEC and Non-OPEC and potential extension of supply cut agreement



Additional supply from the US caused by improved crude oil price

Continued growth in globally crude demand driven by India and OECD countries



Other impacts including economic growth of China and economic policies of EU

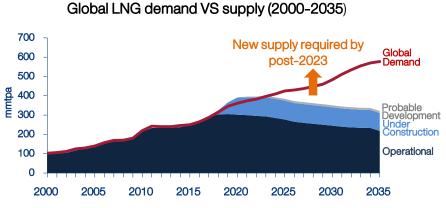
Possibility of intensified political tension between Iraq and Kurds



Remark: * Bloomberg Analyst Consensus (CPFC) as of 25 October 2017 and IEA (as of Oct 2017)



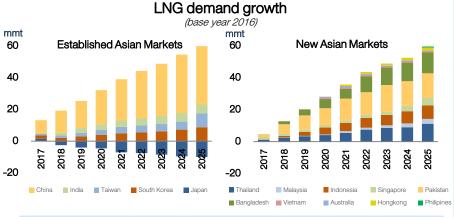
Global LNG Situation



Supply

- Market expects supply grow rapidly by over 40% from 2016 base to 2020 mainly from start-up of under construction projects in US, Russia and Australia
- Oversupply condition should pressure LNG spot price until early 2020s and cause the delay of new project sanction

Source: Woodmac (September 2017) and LNG demand growth from FGE (August 2017)

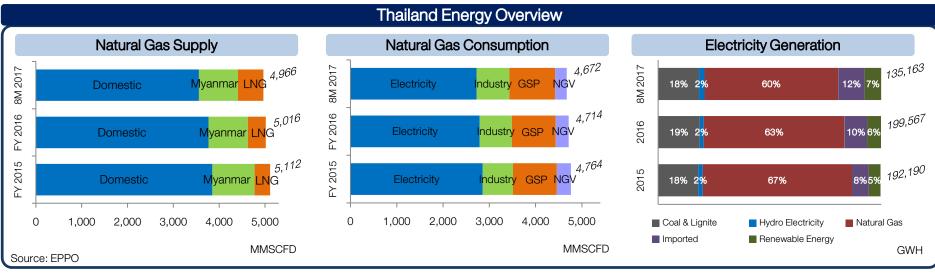


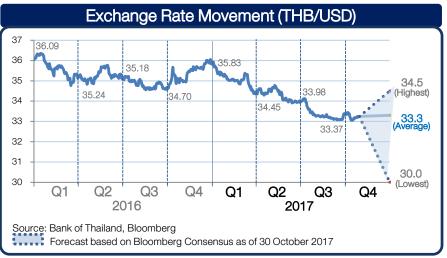
Demand

- The Asian Markets forecasts to be a key driver for future LNG demand
- While LNG demand from Japan will decline due to renewable growth, China, Taiwan and South Korea accounts for the bulk of incremental demand, mainly driven by the Government policy to switch from coal and nuclear power

Key Determinants for Proposed LNG Projects to Reach FID							
Proximity to Asian markets	Competitive Facility Development Costs	Feed Gas Sourcing	Secure Markets with termed contracts				
 Competitive shipping cost and duration 	 Priority on expansion of brownfield projects but opportunities are limited. Advantaged greenfield needs competitive cost and scalability 	 Adequacy and low feed gas cost throughout the project life 	 Quick to secure markets Flexibility to cater for buyer's need in price and non-price factors 				

Financial Industry Outlook Safety 6





Thailand's Gas Market

- Slight decline in domestic production and Myanmar piped gas imports while domestic demand remains stable
- Domestic volumes had been pressured by low nomination due to growth in LNG import

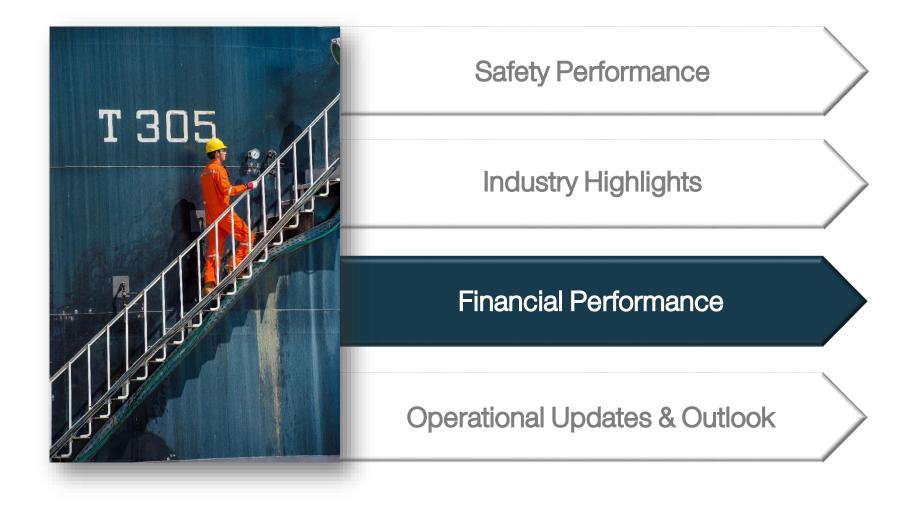
• Consensus on the exchange rate mostly depends on

- Determination on ascending interest rate made by FOMC's may lead USD to appreciate against the THB
- o Concerns on Trump's Fiscal and Monetary policies





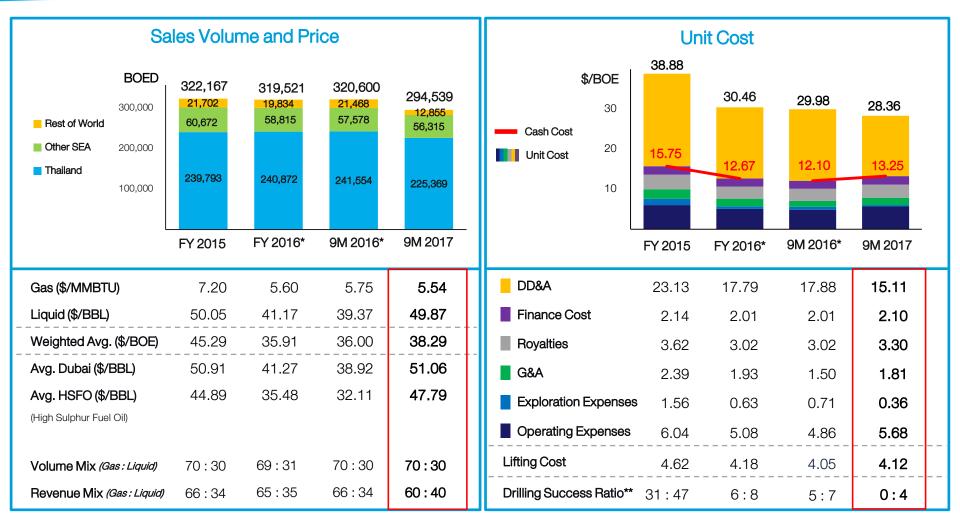




Sales Volume & Unit Cost

PTTEP Improved margin from better selling price and cost discipline





Note: * Represented and includes discontinued operations until end of August 2016

** Exploration and Appraisal Wells

The formulas for calculating ratios are provided in the supplementary section for your reference

Outlook

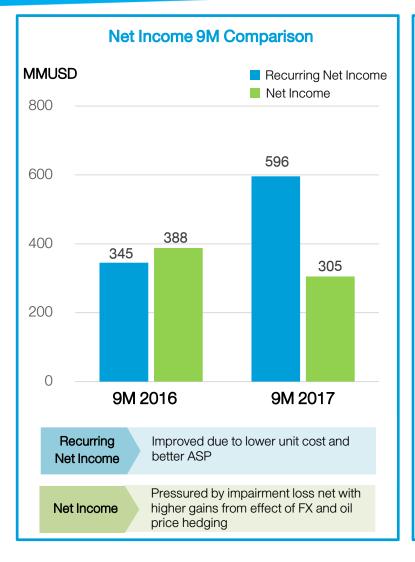
Financial

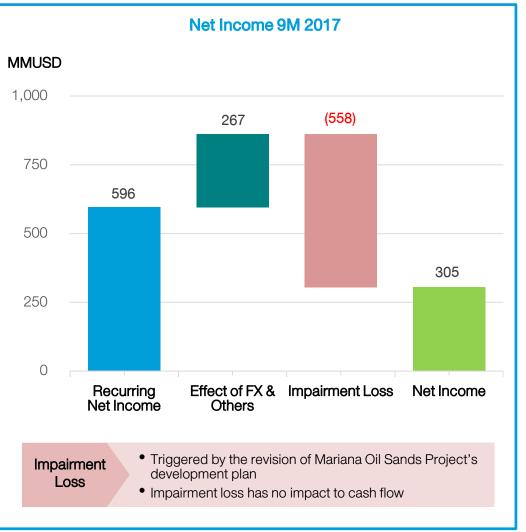
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Safety

Net Income Breakdown

PTTEP Strong core earnings while net income condensed by non-cash impairment loss





Financial

Outlook

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Industry,

Safety

Cash Flow Performance

PTTEP Sufficient liquidity to fund CAPEX, investment and debt services



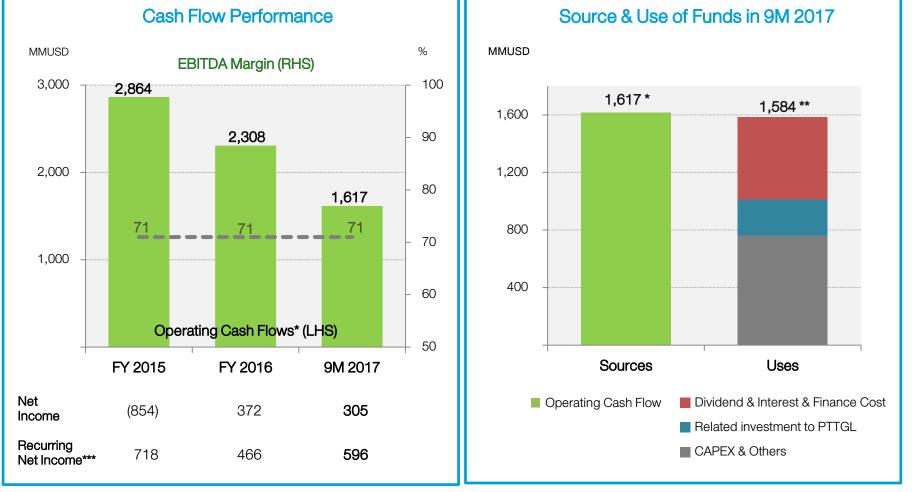
Financial

Outlook

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Industry

Safety



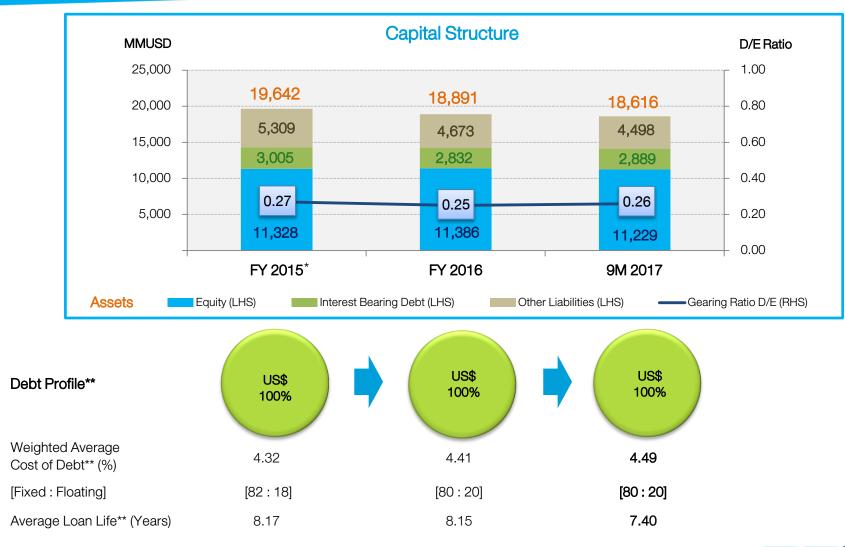
Remark: * Net of adjustment for the effect of exchange rate changes on cash and cash equivalents

** Excludes cash flows for investing in short-term investments (Fixed deposit > 3 months)

*** Excludes Gain/(Loss) on FX, Deferred tax from Functional currency, Current Tax from FX Revaluation, Gain/(Loss) from Financial Instruments, Impairment Loss on Assets, and etc.







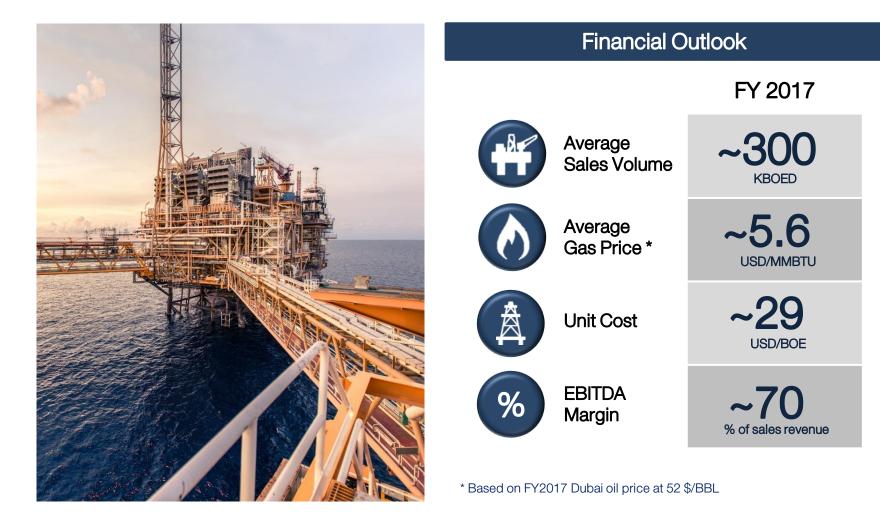
Remark: * Restated

** Excludes Hybrid bonds



















Financial

Outloo

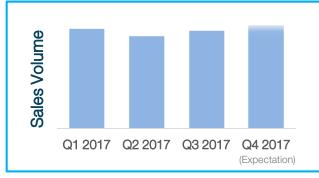
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Industry

Safet

On track for FY2017 sales volume and unit cost targets Initiatives to uplift production volume Sales Volume ~300 KBOFD S1 project Unit Cost Progress (as of Oct 2017) • Maximize crude production in current development areas ~29 \$/BOE and new discovery areas Myanmar projects • Best endeavor to increase export and domestic gas Shutdown plan optimization Montara field FY2017 Achievec • Maximize crude production by facility reliability Total initiatives ~7 KBOED improvement and reservoir management FY2018 Bongkot and Arthit projects aims to maintain sales volume and Total initiatives are already included in Maximize condensate production by high yield well unit cost at similar level as FY2017 Sales volume guidance of ~300 KBOED management

Strong 2H 2017 sales volume outlook

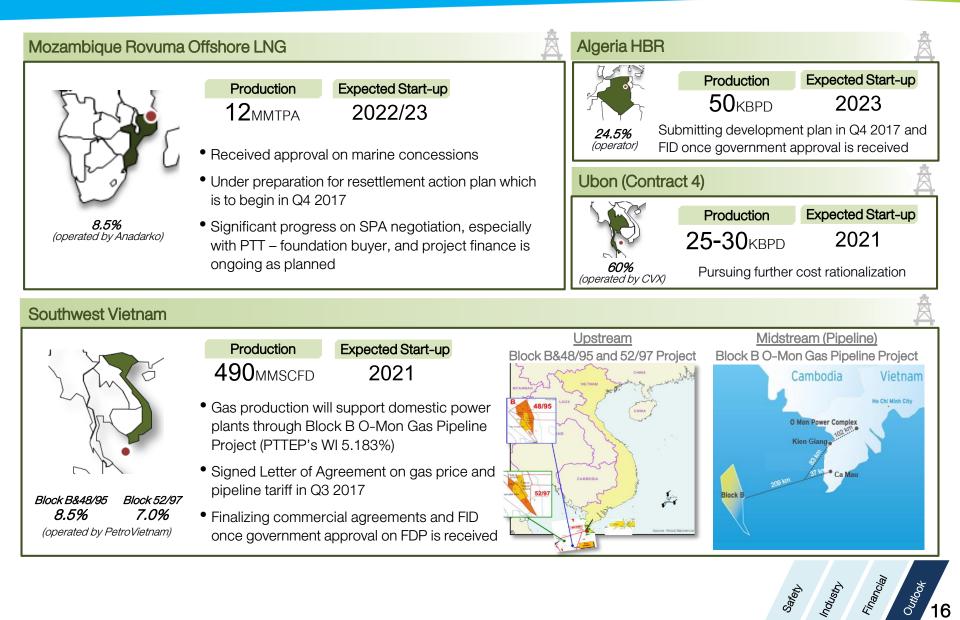


2H 2017

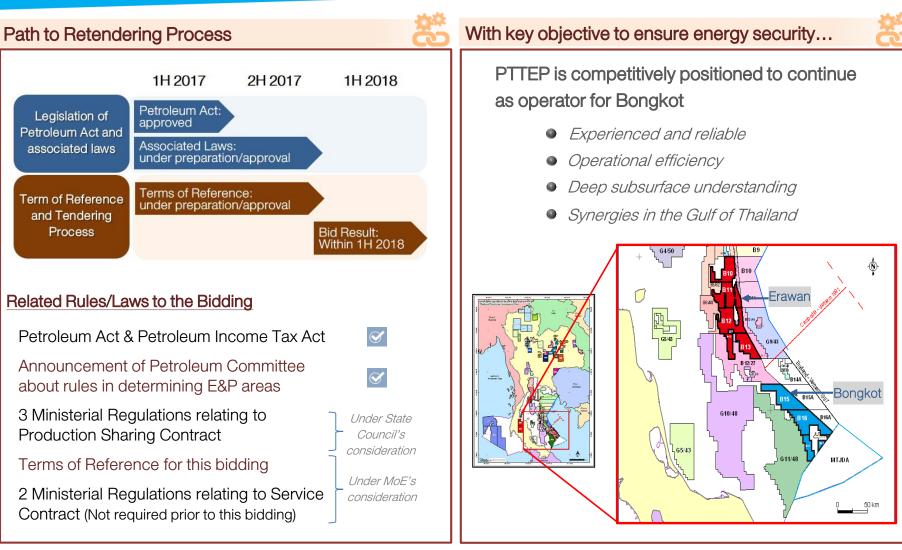
- Improved situation on nomination of natural gas projects in Thailand
- Recovering volume from MTJDA project after resolving technical problem of Malaysian buyer's receiving plant
- Low maintenance shutdown activities
- Additional contribution from the company's initiatives

Priority on Pre-Development Projects Accelerating the FID for near-term reserves addition





Priority on Expiring Concessions BiddingPTTEP is well-positioned and ready to bid for Bongkot and Erawan



Financial

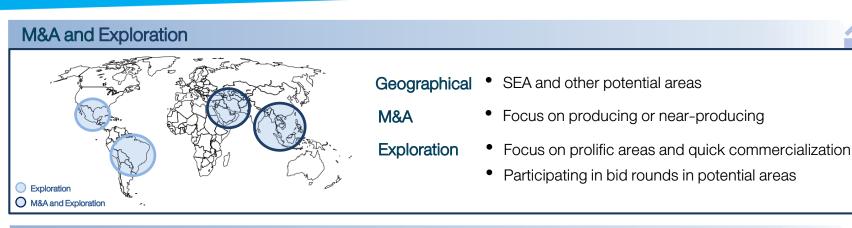
Outloo

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Industry

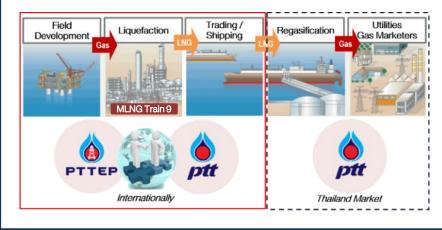


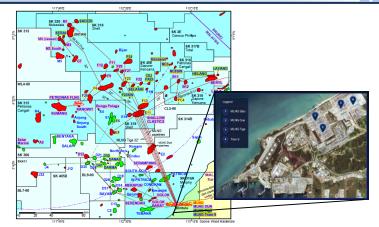
Actively seeking opportunities for better valued investments and reserves accretion



Cooperation with PTT on LNG Value Chain

To capture opportunity from increasing LNG demand, while creating value from synergy with PTT in the LNG value chain





Recent 10% Investment in MLNG Train 9 in Malaysia marked as first step into midstream LNG business in strategic area and in vicinity of current and future upstream opportunities

Source - map of Offshore Sarawak: Woodmac

Outloo

Financial

Industry

Safet





Focused Portfolio with revenue stability

- +90% of sales volume concentrated in SEA
- Stable revenues from PTT +80% of sales volume via long term off-take contracts
- Gas-weighted portfolio to cushion oil price volatility and in line with global trend towards gas

Competitive Cost base and strong margin

- Low cost operations in SEA with ~70% EBITDA margin amid the low oil prices
- Cost discipline and operation efficiency with over 30% Unit cost reduction

Best Balance sheet and Capital Management

- \$4 Bn cash on hand and solid capital structure with low D/E ratio
- A consistent dividendpaying company for over
 15 years

Well positioned for future growth

- Organizational Restructuring to enhance operational efficiency
- Series of project developments in the pipeline and M&A
- Cooperation with PTT in LNG Value Chain investments with First Step into LNG midstream

Industry

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You can reach the Investor Relations team for more information and inquiry through the following channels:



http://www.pttep.com



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+66 2 537 4000









P Improved core earnings while net income hurt by impairment charge



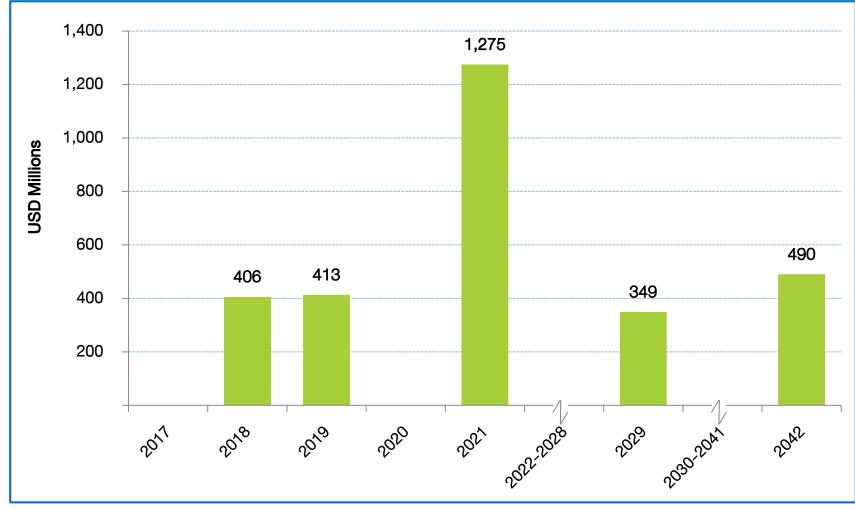
						Unit : MMUSD				
Statement of Income	Q2 17	Q3 17	% QoQ	Q3 16 *	% YoY	9M 17	9M 16 *	% YTD		
Total Revenues	1,032	1,134	10%	1,109	2%	3,252	3,281	(1%)		
Sales	975	1,064	9%	1,047	2%	3,079	3,152	(2%)		
Others	57	70	23%	62	13%	173	129	34%		
Sales Volume (BOED)	281,435	298,139	6%	311,386***	(4%)	294,539	320,600***	(8%)		
Sales Price (USD/BOE)	38.08	38.78	2%	36.32	7%	38.29	36.00	6%		
Total Expenses	812	1,398	72%	953	47%	2,947	2,896	2%		
Major Expenses:										
Operating Expenses		162	6%	146	11%	457	415	10%		
Exploration Expenses	19	9	(53%)	20	(55%)	29	61	(52%)		
DD&A	381	413	8%	534	(23%)	1,214	1,570	(23%)		
Impairment Loss on Assets	-	558	>100%	-	>100%	558	-	>100%		
Income Tax Expense	Income Tax Expense 67		(15%)	67	(15%)	116	152	(24%)		
(Gain)/Loss on FX	(11)	(23)	(>100%)	(14)	(64%)	(37)	(27)	(37%)		
Net Income from Continuing Operations	220	(264)	(>100%)	156	(>100%)	305	385	(21%)		
Profit (loss) from Discontinued Operations -		-	-	0.27	(100%)	-	3	(100%)		
Net Profit	220	(264)	(>100%)	156	(>100%)	305	388	(21%)		
Recurring Net Income	167	218	31%	75	>100%	596	345	73%		
Non-Recurring **	53	(482)	(>100%)	81	(>100%)	(291)	43	(>100%)		

Note: * Represented

** Includes Gain/(Loss) on FX, Deferred tax from Functional currency, Current Tax from FX Revaluation, Gain/(Loss) from Financial Instruments, Impairment loss on assets and etc.

*** Sales volume includes discontinued operations

Debt Maturity Profile Expect no debt maturity until 2018

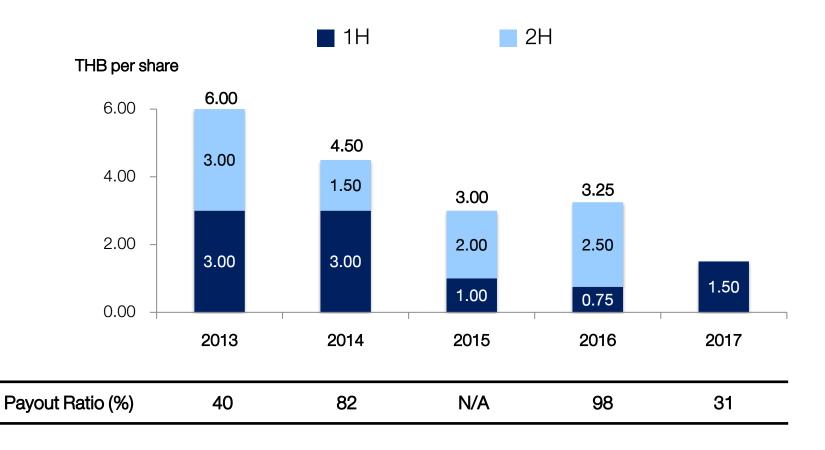


Note: Excludes Hybrid bonds

Unit: USD Millions or equivalent after cross currency swap



Dividend Payment History (Policy : No Less Than 30% of Net Income)





Sustainable development

Pursue long-term growth with social and environmental wellness

MEMBER OF **Dow Jones** Sustainability Indices

In Collaboration with RobecoSAM 🐽

2017 DJSI Listed Company

PTTEP has been selected as a member of the 2017 Dow Jones Sustainability Indices (DJSI) in the DJSI World Oil and Gas Upstream & Integrated Industry for its fourth consecutive year.



Proven business integrity

Outstanding Sustainability Report Award 2016 Thai Listed Companies Association

Certified Member Thailand's Private Sector Collective Action Coalition Against Corruption (CAC)

CG Asia Recognition Awards Corporate Governance Asia Magazine



PTTEP

Platinum Award for SIOLA Project: **Best Community Program** the 9th Annual Global CSR Summit 2017

Bronze Stevie Award for SIOLA and Crab Hatchery Learning Center Project: The Asia-Pacific Stevie Awards Program



FTSE4Good Emerging Index 2017

PTTEP becomes a constituent of the FTSE4Good Emerging Index 2017 for a second consecutive year



Green driver to environment

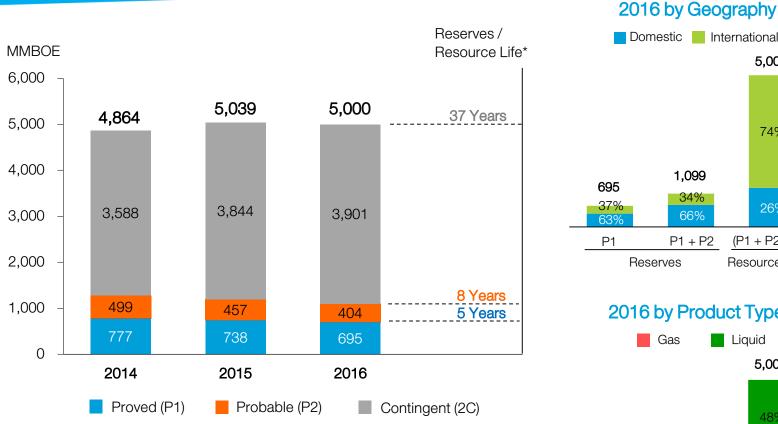
Asia's Best Environmental Responsibility Award Corporate Governance Asia Magazine

2017 LESS Award Letter of Recognition Thailand Greenhouse Gas Management Organization

Thailand Occupational Safety and Health Awards the Ministry of Labour **Reserves and Resources**

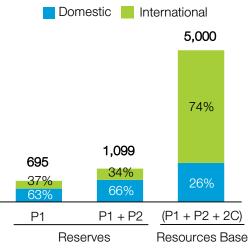
Maintaining reserve life with majority of reserves base in SEA PTTEP



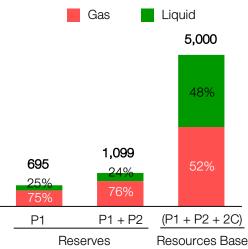


5-Year Average Proved Reserves Replacement Ratio (RRR)

2014	2015	2016
0.45x	0.50x	0.57x



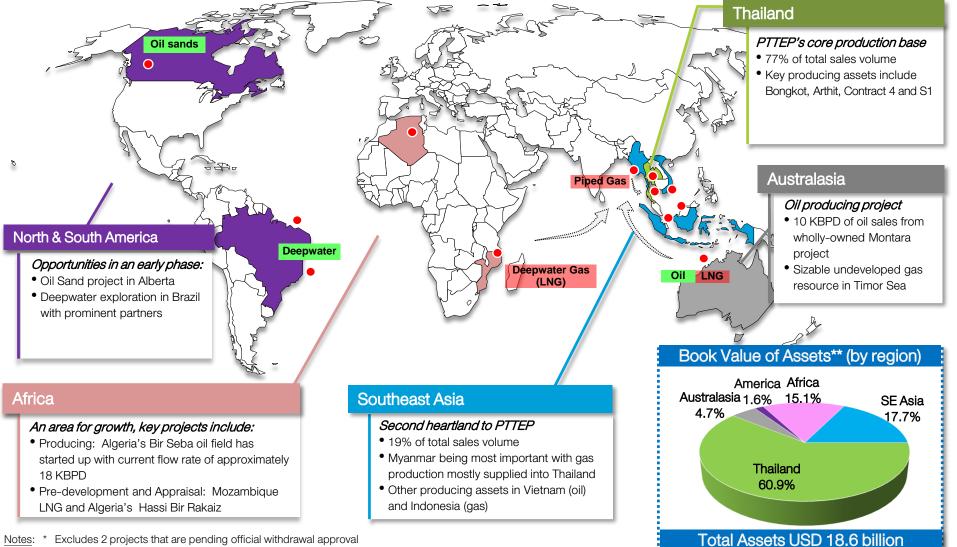
2016 by Product Type



Based on total production of natural gas, condensate, and crude oil (including LPG) of 368 KBOED for the year ended December 31, 2016



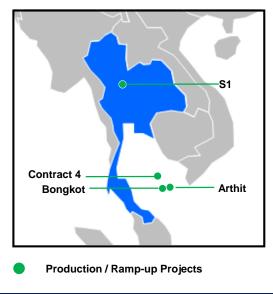




** Information dated as of 30 September 2017 (9M 2017)







Bongkot (44.4445% interest)

- Bongkot's natural gas sales volume of 833 MMSCFD in 9M 2017
- Average condensate sales volume was 25 KBPD in 9M 2017

S1 (100% interest)

- S1 is the largest onshore crude oil production field in Thailand
- Average crude oil sales volume was 26 KBPD in 9M 2017

Arthit (80% interest)

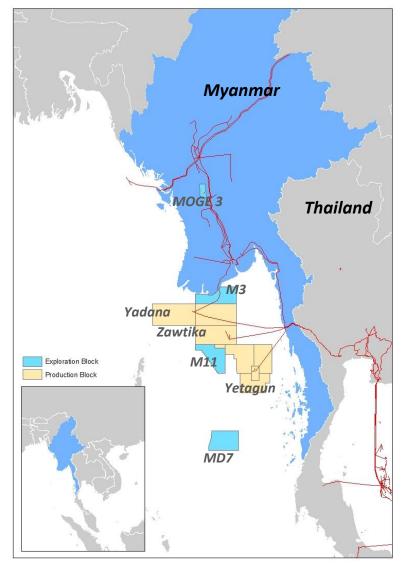
 Average sales volume in 9M 2017 was 215 MMSCFD of natural gas and 9.8 KBPD of condensates

Contract 4 (60% interest)

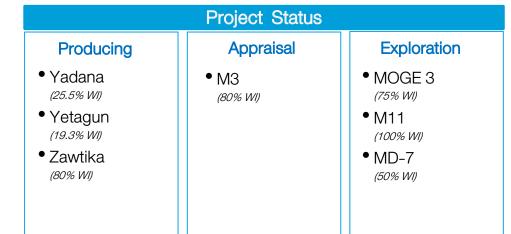
- Acquired from Hess Corporation in 2014.
- The Contract 4 project had an average sales rate of 330 MMSCFD for natural gas and 15 KBPD for condensate in 9M 2017







- Participating in three producing gas fields which supply gas to both Thailand and Myanmar: Yadana, Yetagun, Zawtika
- Operate Zawtika project, brought online in March 2014 with current gas supply of 305 MMSCFD in 9M 2017.
- Significant exploration acreage both onshore and offshore in the Moattama Basin



Note: WI – working interest





Production / Ramp-up Projects

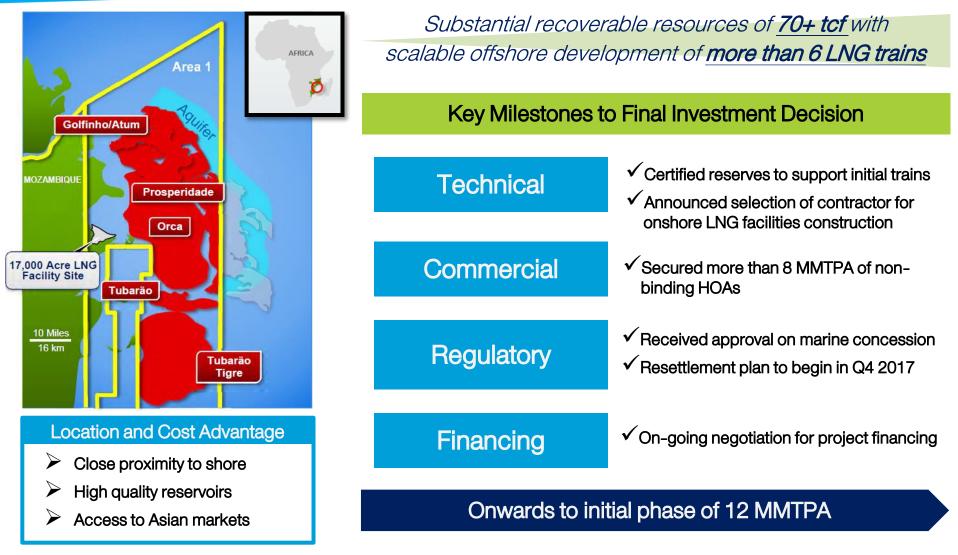
Vietnam 16-1 (28.5% interest)

- Average crude oil sales volume of 21 KBPD in 9M 2017
- Commissioned production platform in the H5 area to support current production level

Natuna Sea A (11.5% interest)

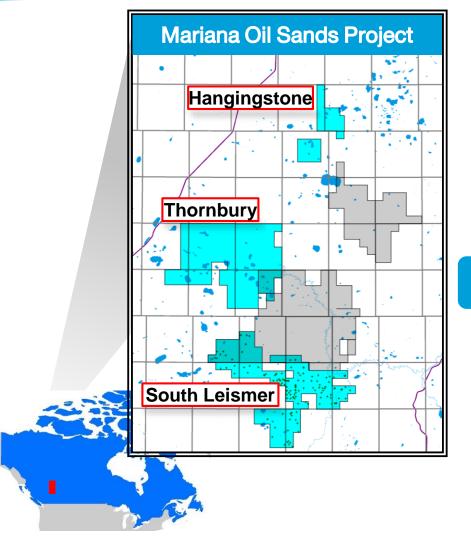
 Average sales volume of natural gas was 221 MMSCFD in 9M 2017 East Africa : Mozambique

Potential to become one of the world's largest emerging LNG supply hubs



Source: Anadarko

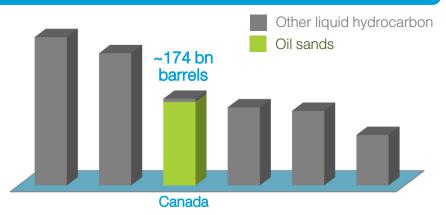




Project Overview

- Operates 100% interest of the Thornbury, Hangingstone and South Leismer (THSL) areas (exploration and appraisal phase)
- Potential large resource base with over a billion barrel
- In Q3 2017, the Company revised the project's development plan which involves delaying the project's Final Investment Decision, to reflect results from the assessment of the industry and commercial feasibility studies

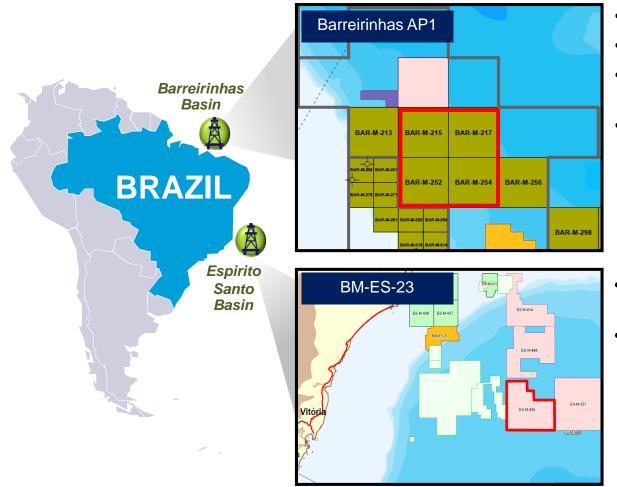
Approximately 96% of the reserves in Canada, the world's 3rd largest oil reserves, is oil sands



Source: Company data, BP Statistical Review of World Energy 2014

PTTEP Entry into high potential petroleum province at exploration phase

America : Brazil Deepwater



- Farm-in 25% from BG Group in 2014
- Operated by Shell Brasil (65% interest)
- Four offshore exploration blocks: BAR-M-215, BAR-M-217, BAR-M-252 and BAR-M-254
- Completed 3D seismic activities and is in the process of assessing the petroleum potential

- Acquired 20% interest from Shell in Q3 2014
- Partnered with Petrobras (65%, operator) and INPEX (15%)

Source : The National Agency of Petroleum, Natural Gas and Biofuels, Brazil (the ANP)





	Project	Status*	PTTEP's Share	Partner (as of Q3 2		9M 2017 Ave Gas	rage Sales Volume ** Oil and Other	2017 Key Activities			
Pro	duction Phase		Silale			Gas					
_	Thailand and JDA										
1	Arthit	OP	80%	Chevron MOECO	16% 4%	215 MMSCFD	Condensate: 9.8 k BPD	 Ensure gas deliverability level at DCQ*** Drill development wells 			
2	B6/27	OP	100%			-	-	Subsurface study			
3	B8/32 & 9A		25%	Chevron MOECO KrisEnergy PSTL	51.66% 16.71% 4.63% 2%	97 MMSCFD	Crude: 27 k BPD	 Drill development wells Perform waterflood activities 			
4	Bongkot	OP	44.4445%	TOTAL Shell	33.3333% 22.2222%	833 MMSCFD	Condensate: 25 k BPD	 Ensure gas deliverability level at DCQ*** Drill development wells Install wellhead platforms 			
5	Contract 3 (Formerly Unocal III)		5%	Chevron MOECO	71.25% 23.75%	548 MMSCFD	Crude: 21 k BPD Condensate: 20 k BPD	 Drill exploration / appraisal / development wells Install wellhead platforms Perform waterflood activities 			
6	Contract 4 (Formerly Pailin)		60%	Chevron MOECO	35% 5%	330 MMSCFD	Condensate: 15 k BPD	 Ensure gas deliverability level at DCQ*** Drill development wells Install wellhead platforms Review development plan of Ubon field 			
7	E5		20%	ExxonMobil	80%	9.1 MMSCFD	-				
8	G4/43		21.375%	Chevron MOECO PSTL	51% 21.25% 6.375%	2.3 MMSCFD	Crude: 6.2 k BPD	Drill development wellsPerform waterflood activities			
9	G4/48		5%	Chevron MOECO	71.25% 23.75%	6.0 MMSCFD	Crude: 1.4 k BPD				
10	L53/43 & L54/43	OP	100%			-	Crude: 664 BPD	Drill exploration / appraisal / development wells			
11	PTTEP1	OP	100%			-	Crude: 278 BPD	Drill development wells Perform waterflood activities			
12	S1	OP	100%			21 MMSCFD	Crude: 26 k BPD	 Drill exploration / development wells Enhance oil recovery program includes waterflooding and artificial lift 			
13	Sinphuhorm	OP	55%	Apico ExxonMobil	35% 10%	81 MMSCFD	Condensate: 264 BPD	Drill development wells			
14	MTJDA	JOC	50%	Petronas-Carigali	50%	235 MMSCFD	Condensate: 6.0 k BPD	Drill development wells Install wellhead platforms			
15	L22/43	OP	100%			-	Crude: 164 BPD	Drill development wells			

* Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship

** Sales volume stated at 100% basis.

*** DCQ = Daily Contractual Quantity





	Project	Status*	PTTEP's	Partne	rs	9M 2017 Aver	age Sales Volume **	2017 Key Activities
			Share	(as of Q32	2017)	Gas	Oil and Other	
Pro	duction Phase							
Ove	erseas							
16	Vietnam 9-2	JOC	25%	PetroVietnam SOCO	50% 25%	12 MMSCFD	Crude: 4.1 k BPD	Maintain production operation Perform reservoir management
17	Yadana		25.5%	TOTAL Chevron MOGE	31.24% 28.26% 15%	754 MMSCFD	-	Ensure gas deliverability level at DCQ***
18	Yetagun		19.3178%	Petronas-Carigali MOGE Nippon Oil PC Myanmar (Hong Kong)	30.00140% 20.4541% 19.3178% 10.90878%	219 MMSCFD	Condensate: 5.7 k BPD	 Drill appraisal / development wells Perform reservoir Management
19	Vietnam 16-1	JOC	28.5%	PetroVietnam SOCO OPECO	41% 28.5% 2%	-	Crude: 21 k BPD	Drill development wellsMaintain production operation
20	PTTEP Australasia (PTTEP AA)	OP	90%-100% (varied by permits)			-	Crude: 10 k BPD	Drill development well in Montara Maintain production operation Acquire 3D seismic reprocessing
21	Natuna Sea A		11.5%	Premier Oil KUFPEC Petronas Pertamina	28.67% 33.33% 15% 11.5%	221 MMSCFD	Crude: 1.3 k BPD	Maintain production operation
22	Zawtika (M9 & a part of M11)	OP	80%	Myanma Oil and Gas Enterprise (MOGE)	20%	305 MMSCFD	<u>-</u>	 Maintain production rate Drill development wells Install wellhead platforms
23	Algeria 433a & 416b (Bir Seba)	JOC	35%	PetroVietnam Sonatrach	40% 25%	-	Crude: 2.9 k BPD (net entitlement)	 Maintain production operation Review field development plan for possible capacity expansion

*** DCQ = Daily Contractual Quantity

^{*}

 $[\]label{eq:status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship Sales volume stated at 100\% basis except for Algeria 433a & 416b$ **





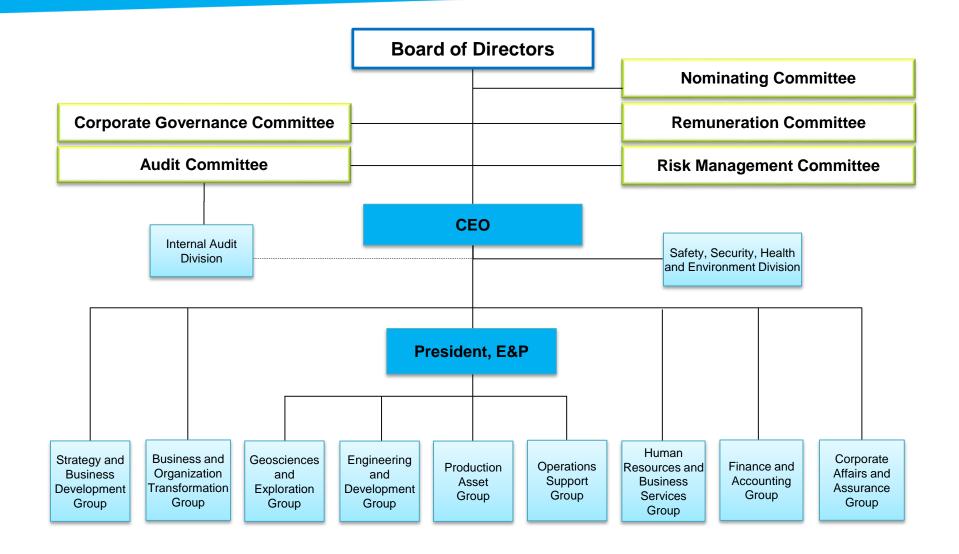
	Project	Status*	PTTEP's Share	Partners (as of Q3 2017)				2017 Key Activities			
Exp	bloration Phase			, , , , , , , , , , , , , , , , , , , ,							
Tha	ailand and JDA										
24	G9/43	OP	100%								
Ove	Overseas										
25	Myanmar M3	OP	80%	MOECO	20%	Assess resource potential and commercial feasibility					
26	Mozambique Rovuma Offshore Area 1		8.5%	ENH, ONGC 15	.5%,20% 5%, 10% 0%, 10%	Preparatory work for Final Investment Decision (FID) including LNG marketing and finalization of remaining commercial contracts					
27	Algeria Hassi Bir Rekaiz	OP	24.5%	CNOOC Sonatrach	24.5% 51%	Conduct pre-development study and prepare project development plan					
28	Myanmar M11	OP	100%			Acquire 3D seismic					
29	Vietnam B & 48/95		8.5%	PVN MOECO	65.88% 25.62%	Negotiate a GSA with the Vietnamese government					
30	Vietnam 52/97		7%	PVN MOECO	73.4% 19.6%	Negotiate a GSA with the Vietnamese government					
31	Myanmar MD-7	OP	50%	TOTAL	50%	Assess resource potential					
32	Mariana Oil Sands	OP	100%			Assess development approach and cost reduction opportunity					
33	Barreirinhas AP1		25%	Shell Brasil Mitsui E&P Brasil	65% 10%	Acquire 3D seismic					
34	Myanmar MOGE 3	OP	75%	Palang Sophon MOECO WinPreciousResources	10% 10% 5%	Acquire 2D and 3D seismic					
35	Brazil BM-ES-23		20%	Petrobras INPEX	65% 15%	Assess petroleum potential					
36	Sarawak SK410B	OP	42.5%	KUFPEC PSCB	42.5% 15%	Acquire 3D seismic					

Remarks: 36 projects exclude 2 projects that are pending official withdrawal approval

* Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship

PTTEP Ensuring transparency, integrity and good corporate governance

Organization structure







Ratio	Formula
Lifting Cost (\$/BOE)	(Operating Exp. – Transportation Cost – Stock Variation – Other expense not related to lifting) / Production Volume
Cash Cost (\$/BOE)	(Operating Exp. + Exploration Exp. + G&A + Royalties + Finance Cost) / Sales Volume
Unit Cost (\$/BOE)	(Operating Exp. + Exploration Exp. + G&A + Royalties + Finance Cost + DD&A) / Sales Volume
Reserves Replacement Ratio	5-Yr Additional Proved Reserves / 5-Yr Production Volume
Reserves Life Index (Year)	Proved Reserves / Production Volume
Success Ratio	Number of wells with petroleum discovery / Total number of exploration and appraisal wells
Sales Revenue	Sales + Revenue from pipeline transportation
EBITDA	(Sales + Revenue from pipeline transportation) - (Operating expenses + Exploration expenses + Administrative expenses + Petroleum royalties and remuneration + Management's remuneration)
EBITDA Margin	EBITDA / Sales Revenue
Return on Equity	Trailing-12-month net income / Average shareholders' equity between the beginning and the end of the 12-month period
Return on Capital Employed	(Trailing-12-month net income + Trailing-12-month Interest Expenses & Amortization Bond Issuing Cost) / (Average shareholders' equity and average total debt between the beginning and the end of the 12-month period)
Simple Effective Tax Rate	Income tax expenses / Income before income taxes
Total debt	Short-term loans from financial institution + Current portion of long-term debts + Bonds + Long-term loans from financial institution
Net debt	Total debt – Liquidity
Debt to Equity	Total debt / Shareholders' equity
Net Debt to Equity	Net debt / Shareholders' equity
Total Debt to Capital	Total debt / (Total debt + Shareholders' equity)
Total Debt to EBITDA	Total debt / Trailing-12-month EBITDA
Net Debt to EBITDA	Net debt / Trailing-12-month EBITDA
EBITDA Interest Coverage Ratio	Trailing-12-month EBITDA / Trailing-12-month Interest Expenses & Amortization of Bond Issuing Cost