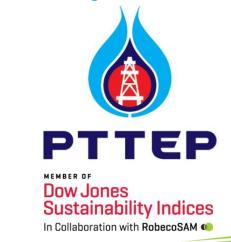
# PTT Exploration and Production Public Company Limited

**Opportunity Day** 

**Bangkok** 

**18 November 2017** 











# Safety Performance

**Industry Highlights** 

Financial Performance

Operational Updates & Outlook

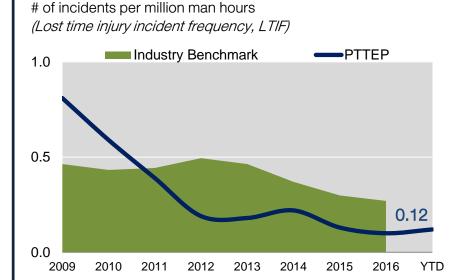


# Priority on Safety and Sustainability

Top quartile safety performance; Fourth consecutive year as a DJSI listed company

# Safety

#### Maintain high safety standard



Safety of PTTEP employees and contractors in every aspect of our operations is key to achieve the goal of "Target Zero"

# Sustainability

#### Affirm our path to sustainable development



Member of the 2017 Dow Jones Sustainability Indices (DJSI) in the DJSI World Oil and Gas Upstream & Integrated Industry for its fourth consecutive year





Constituent of the FTSE4Good Emerging Index 2017 for a second consecutive year



"Excellence" level of recognition from the 2017 Corporate Governance Report of Thai Listed Companies, conducted by the Thai Institute of Directors (IOD) since 2001







Safety Performance

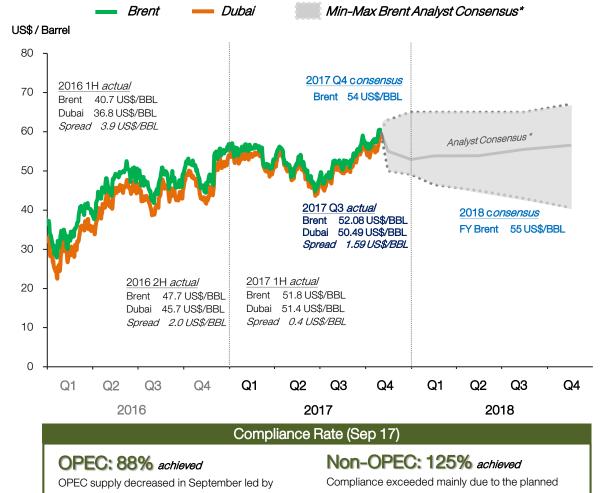
**Industry Highlights** 

Financial Performance

Operational Updates & Outlook



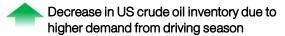


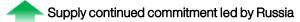


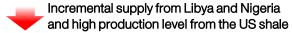
Saudi Arabia

maintenance season in Russia and production disruption in Mexico from hurricane and earthquake

#### Q3 Highlights







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









Safety Performance

**Industry Highlights** 

Financial Performance

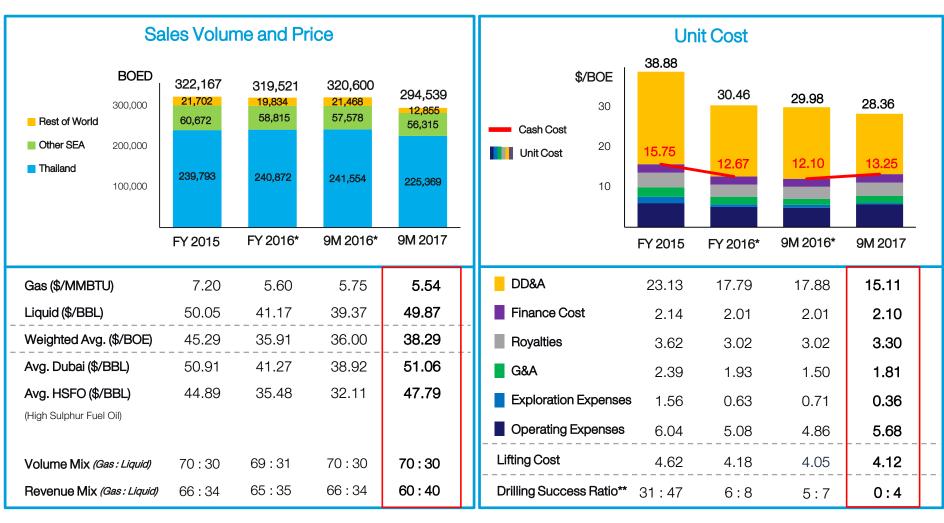
Operational Updates & Outlook



## Sales Volume & Unit Cost







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

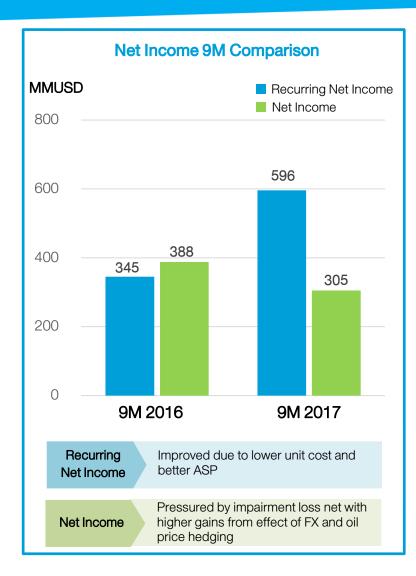
The formulas for calculating ratios are provided in the supplementary section for your reference

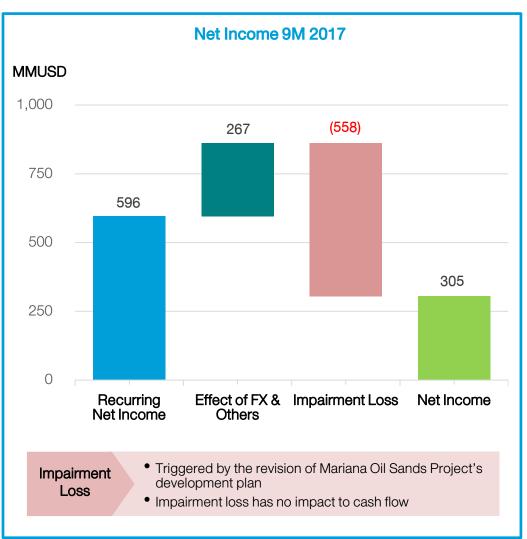
<sup>\*\*</sup> Exploration and Appraisal Wells



# Net Income Breakdown

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

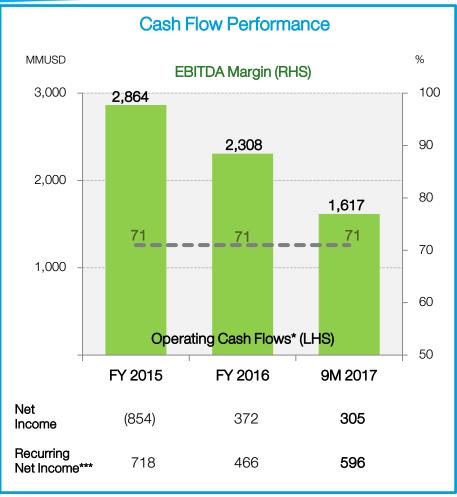


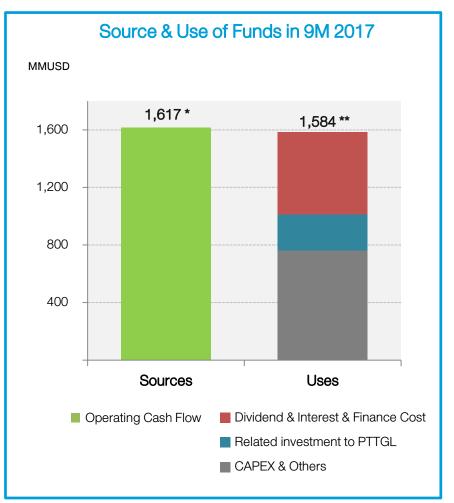


## **Cash Flow Performance**









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)

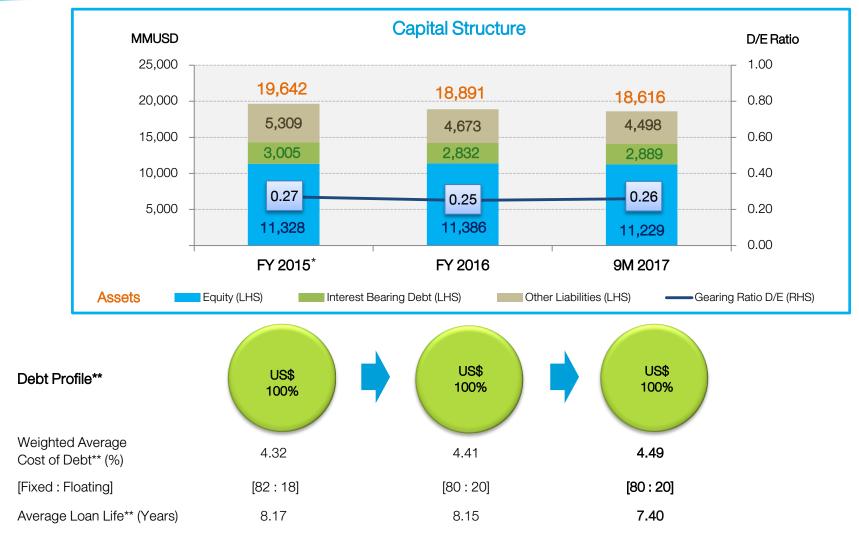
\*\*\* Excludes Gain/(Loss) on FX, Deferred tax from Functional currency, Current Tax from FX Revaluation, Gain/(Loss) from Financial Instruments, Impairment Loss on Assets, and etc.



# **Financial Position**

## Healthy balance sheet with low gearing





Remark: \* Restated

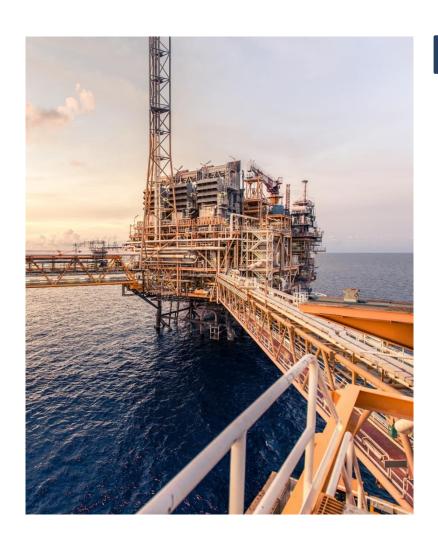
\*\* Excludes Hybrid bonds



# **Financial Outlook**

Expect to maintain strong core financial performance





# Financial Outlook

FY 2017



Average Sales Volume





Average Gas Price \*





**Unit Cost** 





EBITDA Margin ~70 % of sales revenue

<sup>\*</sup> Based on FY2017 Dubai oil price at 52 \$/BBL







Safety Performance

**Industry Highlights** 

Financial Performance

Operational Updates & Outlook



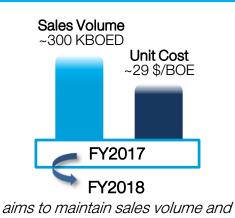
# **Priority on Producing Projects**

Sustain production and low cost in existing projects to maximize value



#### On track for FY2017 sales volume and unit cost targets





Progress (as of Oct 2017)



Total initiatives ~7 KBOED

Total initiatives are already included in Sales volume guidance of ~300 KBOED

#### S1 project

Initiatives to uplift production volume

 Maximize crude production in current development areas and new discovery areas

#### Myanmar projects

- Best endeavor to increase export and domestic gas
- Shutdown plan optimization

#### Montara field

 Maximize crude production by facility reliability improvement and reservoir management

#### Bongkot and Arthit projects

Maximize condensate production by high yield well management

#### Strong 2H 2017 sales volume outlook

unit cost at similar level as FY2017





#### 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

#### Mozambique Rovuma Offshore LNG



8.5% (operated by Anadarko)

Production

Expected Start-up

12<sub>MMTPA</sub> 2022/23

- Received approval on marine concessions
- Under preparation for resettlement action plan which is to begin in Q4 2017
- Significant progress on SPA negotiation, especially with PTT – foundation buyer, and project finance is ongoing as planned

#### Algeria HBR



Production

**Expected Start-up** 

50<sub>KBPD</sub>

2023

*24.5%* Subn *(operator)* FID o

Submitting development plan in Q4 2017 and FID once government approval is received

#### **Ubon (Contract 4)**



Production

**Expected Start-up** 

25-30<sub>KBPD</sub>

2021

60% (operated by CVX)

Pursuing further cost rationalization

#### Southwest Vietnam



Block B&48/95 Block 52/97 8.5% 7.0% (operated by PetroVietnam)

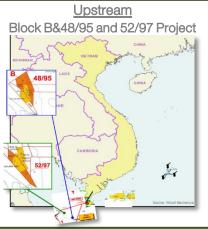
Production

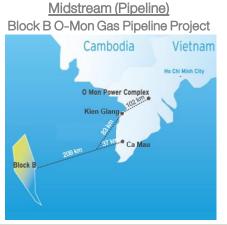
**Expected Start-up** 

490<sub>MMSCFD</sub>

2021

- Gas production will support domestic power plants through Block B O-Mon Gas Pipeline Project (PTTEP's WI 5.183%)
- Signed Letter of Agreement on gas price and pipeline tariff in Q3 2017
- Finalizing commercial agreements and FID once government approval on FDP is received







# **Priority on Expiring Concessions Bidding**

PTTEP is well-positioned and ready to bid for Bongkot and Erawan



#### Path to Retendering Process



1H 2017 2H 2017 1H 2018

Legislation of Petroleum Act and associated laws Petroleum Act: approved

Associated Laws: under preparation/approval

Term of Reference and Tendering Process Terms of Reference: under preparation/approval

Bid Result: Within 1H 2018

#### Related Rules/Laws to the Bidding

Petroleum Act & Petroleum Income Tax Act



Announcement of Petroleum Committee about rules in determining E&P areas



3 Ministerial Regulations relating to Production Sharing Contract

Terms of Reference for this bidding

2 Ministerial Regulations relating to Service Contract (Not required prior to this bidding)

Under State Council's consideration

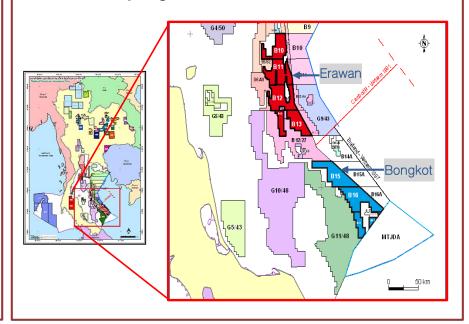
Under MoE's consideration

### With key objective to ensure energy security...



# PTTEP is competitively positioned to continue as operator for Bongkot

- Experienced and reliable
- Operational efficiency
- Deep subsurface understanding
- Synergies in the Gulf of Thailand



Note: indicative timeline and Progress as of 1 November 2017



Exploration
 M&A and Exploration

# Priority on New Investments

Actively seeking opportunities for better valued investments and reserves accretion

## M&A and Exploration



Geographical

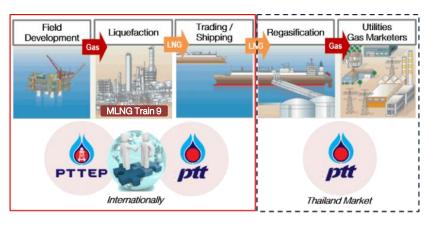
M&A

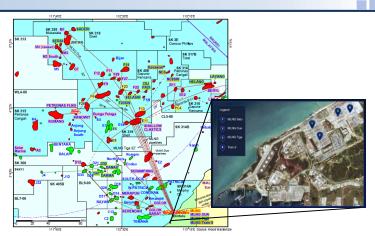
**Exploration** 

- SEA and other potential areas
- Focus on producing or near-producing
- Focus on prolific areas and quick commercialization
- Participating in bid rounds in potential areas

#### 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



# Key Takeaways

Financially strong and ready to pursue future growth



# 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





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



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Q3 2017 Financial Results	20-22
Sustainable Development	23
Reserves and Resources	24
Key Project Highlights by Region	25-31
Project Details	32-34
Organization Structure	35
Ratios and Formula	36



# Summary of Q3 2017 Financial Results

Improved core earnings while net income hurt by impairment charge

Unit: MMUSD

								IL. IVIIIVIOOD
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	153	162	6%	146	11%	457	415	10%
Exploration Expenses	9	(53%)	20	(55%)	29	61	(52%)	
DD&A	413	8%	534	(23%)	1,214	1,570	(23%)	
Impairment Loss on Assets	558	>100%	-	>100%	558	-	>100%	
Income Tax Expense	57	(15%)	67	(15%)	116	152	(24%)	
(Gain)/Loss on FX	(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

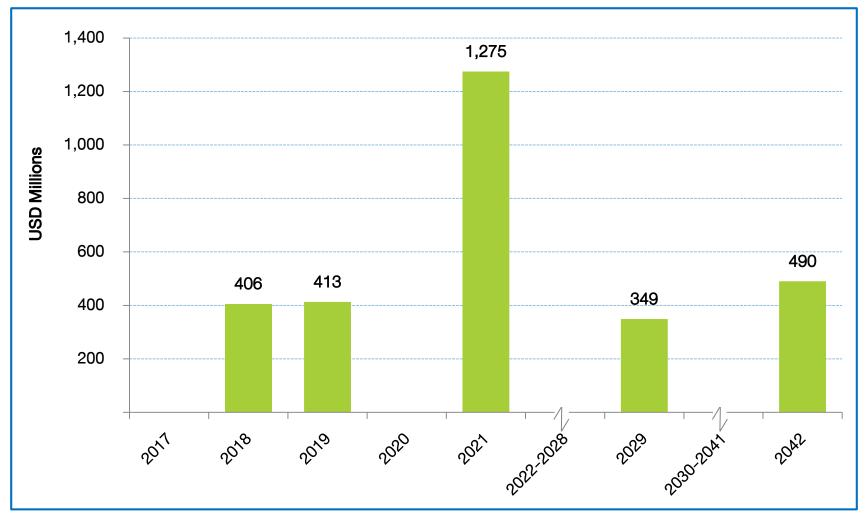
<sup>\*\*</sup> Includes Gain/(Loss) on FX, Deferred tax from Functional currency, Current Tax from FX Revaluation, Gain/(Loss) from Financial Instruments, Impairment loss on assets and etc.

<sup>\*\*\*</sup> Sales volume includes discontinued operations

# **Debt Maturity Profile**

# Expect no debt maturity until 2018





Note: Excludes Hybrid bonds

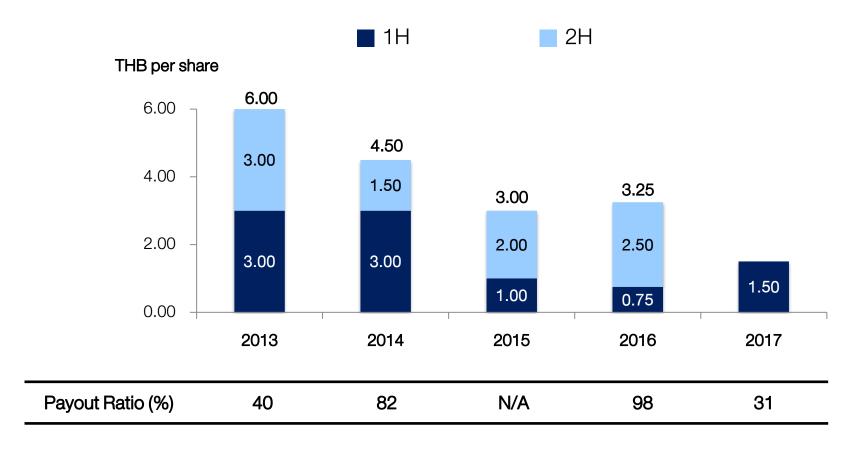
Unit: USD Millions or equivalent after cross currency swap

# **Dividends**





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





# Sustainable development

Pursue long-term growth with social and environmental wellness

# 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.



# PTTEP



#### FTSE4Good Emerging Index 2017

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

#### **Exemplary social contributor**

Platinum Award for SIOLA Project: Best Community Program

the 9<sup>th</sup> Annual Global CSR Summit 2017

Bronze Stevie Award for SIOLA and Crab Hatchery Learning Center Project:

The Asia-Pacific Stevie Awards Program

#### 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

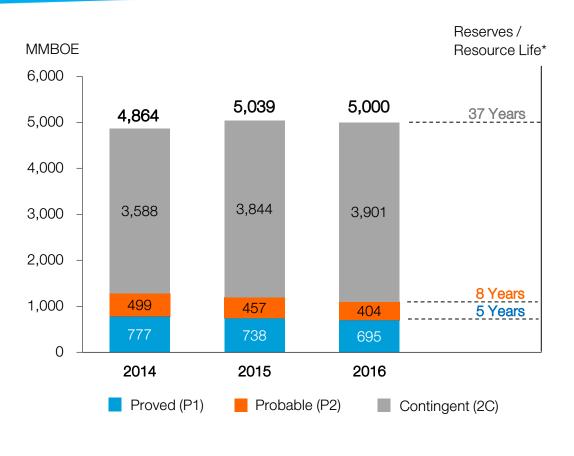
Thailand Occupational Safety and Health Awards the Ministry of Labour



## Reserves and Resources

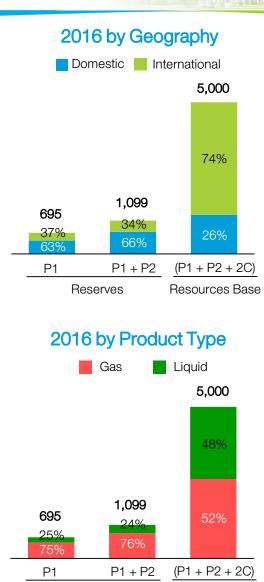
# Maintaining reserve life with majority of reserves base in SEA





#### 5-Year Average Proved Reserves Replacement Ratio (RRR)

2014	2015	2016
0.45x	0.50x	0.57x



Reserves

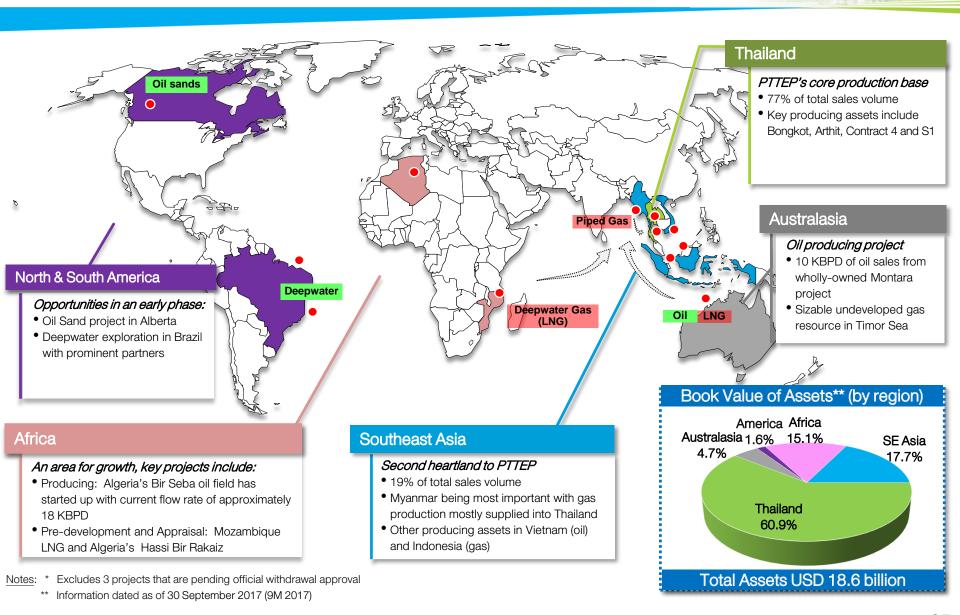
Resources Base

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



# Diversified international portfolio

Worldwide operations: 36 projects\* in 10 countries

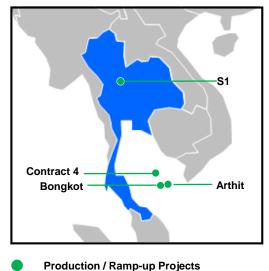




# **Thailand**

# Strong home base with legacy assets maintaining production plateau





#### 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

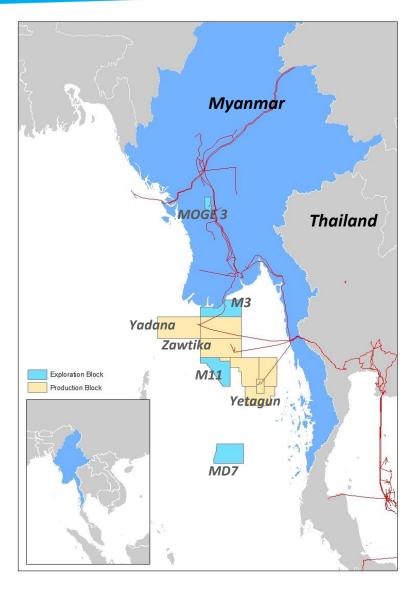
### Contract 4 (60% interest)

- 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



# Southeast Asia: Myanmar

#### Significant contribution to growth



- 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

#### **Project Status Appraisal Exploration Producing** Yadana MOGE 3 • M3 (25.5% WI) (75% WI) (80% WI) Yetagun • M11 (19.3% WI) (100% WI) Zawtika • MD-7 (80% WI) (50% WI)

Note: WI - working interest



# Southeast Asia: Vietnam and Indonesia

Reinforcing regional exposure through strategic partnerships



#### Vietnam 16-1







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)

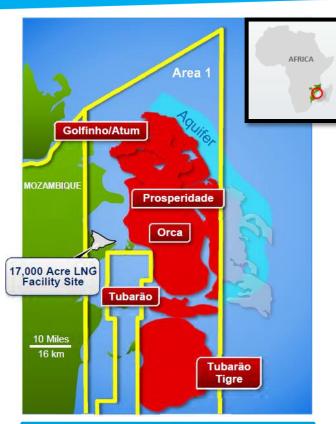
 Average sales volume of natural gas was 221 MMSCFD in 9M 2017

Source: Premier Oil



# East Africa: Mozambique

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



## **Location and Cost Advantage**

- Close proximity to shore
- High quality reservoirs
- Access to Asian markets

Substantial recoverable resources of <u>70+ tcf</u> with scalable offshore development of more than 6 LNG trains

#### **Key Milestones to Final Investment Decision**

**Technical** 

- ✓ Certified reserves to support initial trains
- ✓ Announced selection of contractor for onshore LNG facilities construction

Commercial

✓ Secured more than 8 MMTPA of non-binding HOAs

Regulatory

- ✓ Received approval on marine concession
- ✓ Resettlement plan to begin in Q4 2017

**Financing** 

✓ On-going negotiation for project financing

Onwards to initial phase of 12 MMTPA

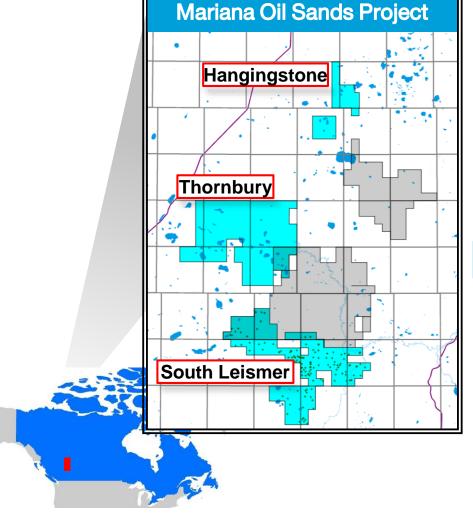
Source: Anadarko



## America: Canada Oil Sands

Flexibility to pursue long-term investment from the oil sands project

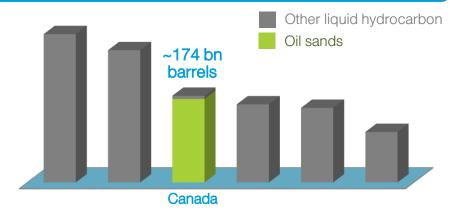




#### **Project Overview**

- 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 3<sup>rd</sup> largest oil reserves, is oil sands



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



# America: Brazil Deepwater

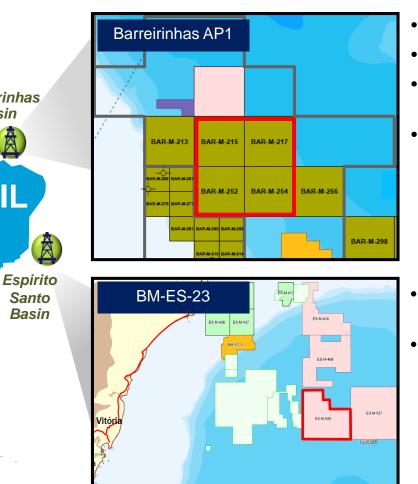
Barreirinhas

Basin

**BRAZIL** 

Entry into high potential petroleum province at exploration phase





- 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)

Santo Basin



# Project information 1/3

Production phase: Thailand and JDA



	Project	Status*	PTTEP's Share	Partners		9M 2017 Ave	rage Sales Volume **	2017 Key Activities
				(as of Q3 2	2017)	Gas	Oil and Other	2017 Key Activities
Pro	duction Phase							
Tha	ailand and JDA							
1	Arthit	ОР	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 wells     Perform 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%			Ē	Crude: 664 BPD	Drill exploration / appraisal / development wells
11	PTTEP1	OP	100%			-	Crude: 278 BPD	<ul><li>Drill development wells</li><li>Perform waterflood activities</li></ul>
12	S1	ОР	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

<sup>\*</sup> Sales volume stated at 100% basis.

<sup>\*\*\*</sup> DCQ = Daily Contractual Quantity



# Project information 2/3

Production phase: Overseas



	Project	Project Status* PTTEP's Partners		rs	9M 2017 Aver	age Sales Volume **	2017 Key Activities	
			Share	(as of Q3 2	2017)	Gas	Oil and Other	
Pro	duction Phase							
Ove	<u>erseas</u>							
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	<ul><li>Drill development wells</li><li>Maintain production operation</li></ul>
20	PTTEP Australasia (PTTEP AA)	ОР	90%-100% (varied by permits)			-	Crude: 10 k BPD	<ul> <li>Drill development well in Montara</li> <li>Maintain production operation</li> <li>Acquire 3D seismic reprocessing</li> </ul>
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)	ОР	80%	Myanma Oil and Gas Enterprise (MOGE)	20%	305 MMSCFD	-	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

Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship Sales volume stated at 100% basis except for Algeria 433a & 416b

<sup>\*\*\*</sup> DCQ = Daily Contractual Quantity



# Project information 3/3

# Exploration phase



	Project	Status*	PTTEP's Share	Partners (as of Q3 2017)	2017 Key Activities
Exp	oloration Phase			[ (dd 0) Q0 2011)	
Tha	ailand and JDA				
24	G9/43	OP	100%		
Ove	<u>erseas</u>				
25	Myanmar M3	OP	80%	MOECO 20%	Assess resource potential and commercial feasibility
26	Mozambique Rovuma Offshore Area 1		8.5%	Anadarko, Mitsui, 26.5%,20% ENH, ONGC 15%, 10% Beas Rovuma, Bharat 10%, 10%	Preparatory work for Final Investment Decision (FID) including LNG marketing and
27	Algeria Hassi Bir Rekaiz	ОР	24.5%	CNOOC 24.5% Sonatrach 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 65.88% MOECO 25.62%	
30	Vietnam 52/97		7%	PVN 73.4% MOECO 19.6%	
31	Myanmar MD-7	ОР	50%	TOTAL 50%	Assess resource potential
32	Mariana Oil Sands	ОР	100%		Assess development approach and cost reduction opportunity
33	Barreirinhas AP1		25%	Shell Brasil 65% Mitsui E&P Brasil 10%	
34	Myanmar MOGE 3	OP	75%	Palang Sophon 10% MOECO 10% WinPreciousResources 5%	Acquire 2D and 3D seismic
35	Brazil BM-ES-23		20%	Petrobras 65% INPEX 15%	Assess petroleum potential
36	Sarawak SK410B	ОР	42.5%	KUFPEC         42.5%           PSCB         15%	Acquire 3D seismic

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

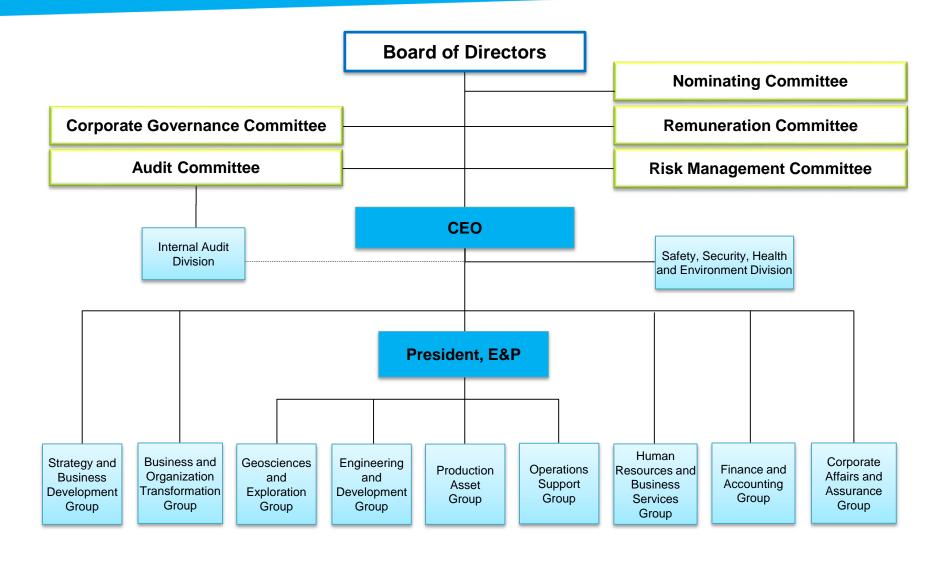
<sup>\*</sup> Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship



# Organization structure

Ensuring transparency, integrity and good corporate governance







# Ratio & formula



Formula
(Operating Exp Transportation Cost - Stock Variation - Other expense not related to lifting) / Production Volume
(Operating Exp. + Exploration Exp. + G&A + Royalties + Finance Cost) / Sales Volume
(Operating Exp. + Exploration Exp. + G&A + Royalties + Finance Cost + DD&A) / Sales Volume
5-Yr Additional Proved Reserves / 5-Yr Production Volume
Proved Reserves / Production Volume
Number of wells with petroleum discovery / Total number of exploration and appraisal wells
Sales + Revenue from pipeline transportation
(Sales + Revenue from pipeline transportation) - (Operating expenses + Exploration expenses + Administrative expenses + Petroleum royalties and remuneration + Management's remuneration)
EBITDA / Sales Revenue
Trailing-12-month net income / Average shareholders' equity between the beginning and the end of the 12-month period
(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)
Income tax expenses / Income before income taxes
Short-term loans from financial institution + Current portion of long-term debts + Bonds + Long-term loans from financial institution
Total debt – Liquidity
Total debt / Shareholders' equity
Net debt / Shareholders' equity
Total debt / (Total debt + Shareholders' equity)
Total debt / Trailing-12-month EBITDA
Net debt / Trailing-12-month EBITDA
Trailing-12-month EBITDA / Trailing-12-month Interest Expenses & Amortization of Bond Issuing Cost