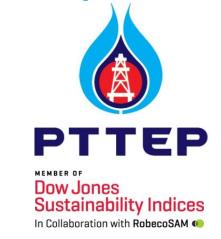
PTT Exploration and Production Public Company Limited

2017 Q1 Opportunity Day
Stock Exchange of Thailand
23 May 2017











Safety Performance

Industry Highlights

Financial Performance

Operational Outlook & Growth

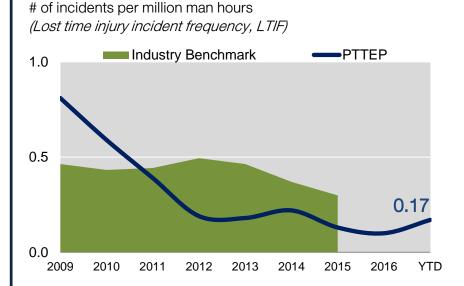


Priority on Safety and Sustainability

Significant cost reduction without compromising on SSHE

Safety

Maintain high safety standard

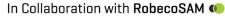


Safety of PTTEP employees and contractors in every aspect of our operations is key to achieve the goal of "Target Zero"

DJSI

Listed for three consecutive years

Dow Jones Sustainability Indices







ROBECOSAM Sustainability Award Gold Class 2017

PTTEP is selected for the DJSI World Oil and Gas Upstream & Integrated Industry with the highest score in 2016 and also awarded the RobecoSAM Gold Class Sustainability Award 2017.









Safety Performance

Industry Highlights

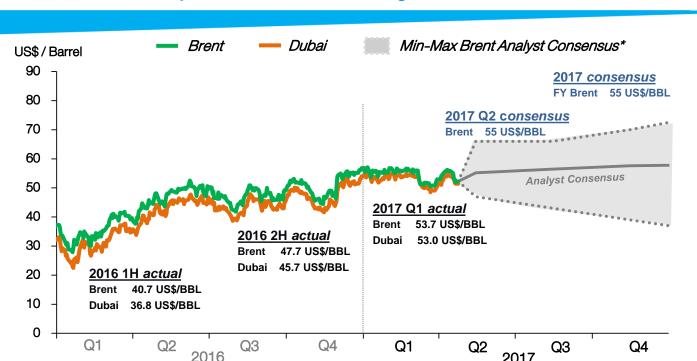
Financial Performance

Operational Outlook & Growth



Oil Prices

Gradually recovered but still ambiguous





OPEC: 104%

achieved

Production from most members bound by the six-month output deal edged lower

Non-OPEC: 64%

achieved

Improved compliance led by further output cuts in Russia

Source: IEA (as of March 2017)

Q1 2017 Highlights



High compliance on the production cut agreement by **OPEC and Non-OPEC members**



The re-sanctioning of Iran by the US and unrest situation in Middle East



Addition supply from the US following oil price recovery

Outlook from the Remainder of 2017



2017

Continued growth in crude oil demand



Rising tension among the US and Middle East



The renewal of the production cut agreement



Reoccurrence of supply glut situation driven by increasing production from the US

Bloomberg Analyst Consensus (CPFC) as of 5 May 2017







Safety Performance

Industry Highlights

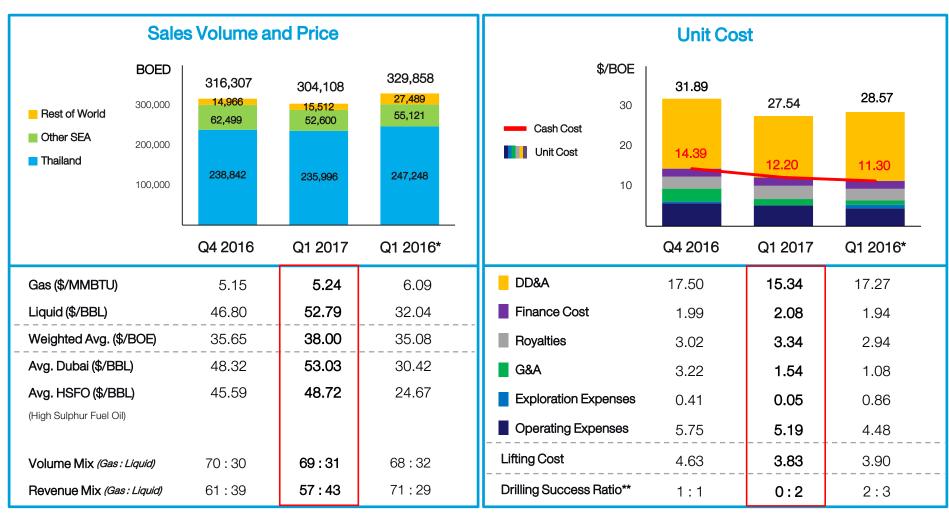
Financial Performance

Operational Outlook & Growth



Sales Volume & Unit Cost





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

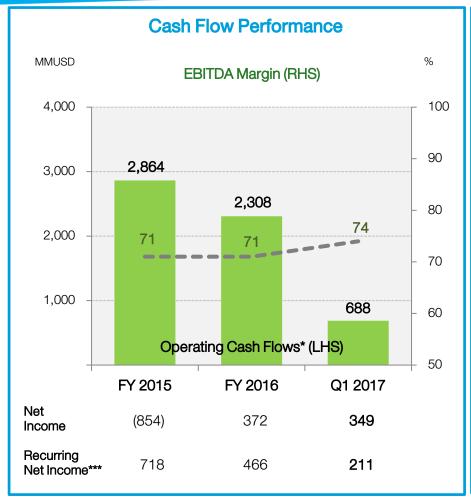
The formulas for calculating ratios are provided in the supplementary section for your reference

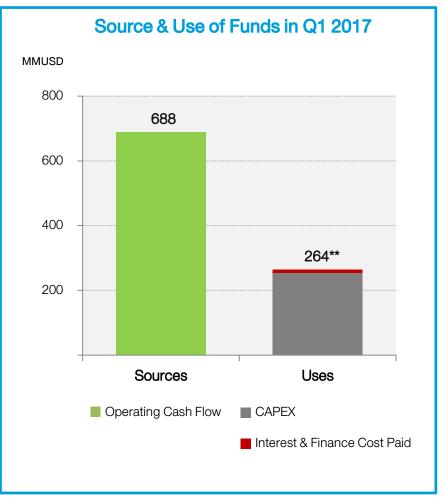
^{**} Exploration and Appraisal Wells



Cash Flow Performance

Self funding for CAPEX and debt service





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

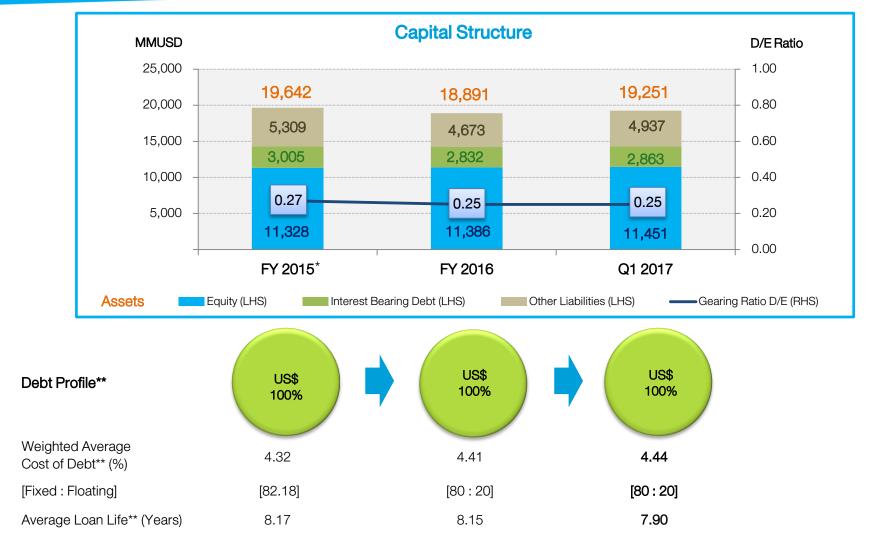
** Excludes cash flows for investing in short-term investments (Fixed deposit > 3 months)

*** 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

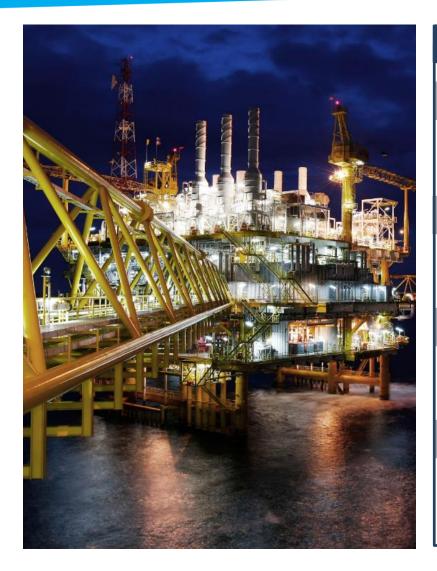


Remark: * Restated

** Excludes Hybrid bonds

Financial Outlook

Expect to deliver robust financial performance



Financial Outlook

Average Sales Volume (KBOED)

Q2 2017

FY 2017

~ 300

300-310

Average Gas Price (USD/MMBTU)

Q2 2017

FY 2017*

~ 5.5

~ 5.5

Unit Cost (USD/BOE)

Q2 2017

FY 2017

~ 29

~29

EBITDA margin

FY 2017

~ 70 %

10

^{*} Based on FY2017 Dubai oil price at 52 \$/BBL







Safety Performance

Industry Highlights

Financial Performance

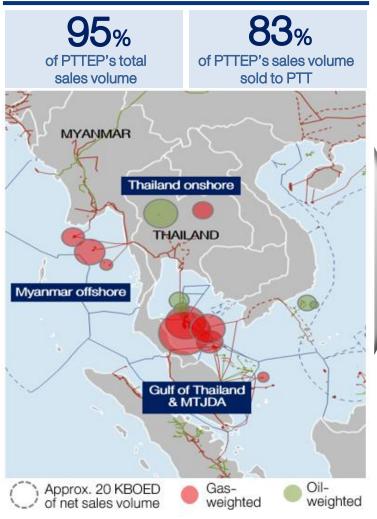
Operational Outlook & Growth



2017 Outlook on Existing Projects in SEA

Maximizing value and mitigating near-term downsides

Producing assets in SEA



Mitigation plan on lower gas sales

Situation

- Potential of low nomination of natural gas fields in GoT and utilization of carry forward volume from buyer due to low LNG prices
- Technical problem on receiving plant of Malaysian buyer in MTJDA project

Impact to PTTEP

Lower 2017 sales
 volume approx. 5-10
 KBOED, which
 already incorporated
 in the 2017 revised
 guidance

Mitigation Plan

- Increase oil/condensate production to compensate low gas nomination
- Improve Enhanced Oil Recovery (EOR) technique on current producing assets e.g. S1
- Cost optimization to compensate bottom line



Growth Dimensions

Accelerating project development and new investments execution

Key pre-development projects

Mozambique Rovuma Offshore Area 1



Production

12MMTPA

Expected Start-up

2022/23

Working Interest

8.5%

(operated by Anadarko)

- Substantial recoverable resources of 70+ TCF
- Initial development for 12 MMTPA LNG (2 trains)

Key elements towards FID

Legal/Contractual

Key agreements are now finalized; working through formal approval.

Resettlement

Resettlement action plan was approved, which will enable contracts finalization and begin construction of new villages.

Marketing

Secured HOAs with multiple customers. In the process of turning HOAs into SPAs.

Project Financing

Lenders are keenly engaged and have indicated the willingness to support.

Ubon (Contract 4)



Production

25-30_{KBPD}

Expected Start-up

2021

Working Interest

60%

(operated by Chevron)

- Oil resources in the Gulf of Thailand
- Pursuing further cost rationalization

Algeria HBR



Production

Expected Start-up

Working Interest

50KBPD

2023

24.5% (operator)

- Accelerate development plan with early production phase of 10-13 KBPD
- Preparing development plan and target to submit in Q3 2017

M&A and Exploration



- Geographical
- Thailand, SEA and Middle East

M&A

Focus on producing or near-producing

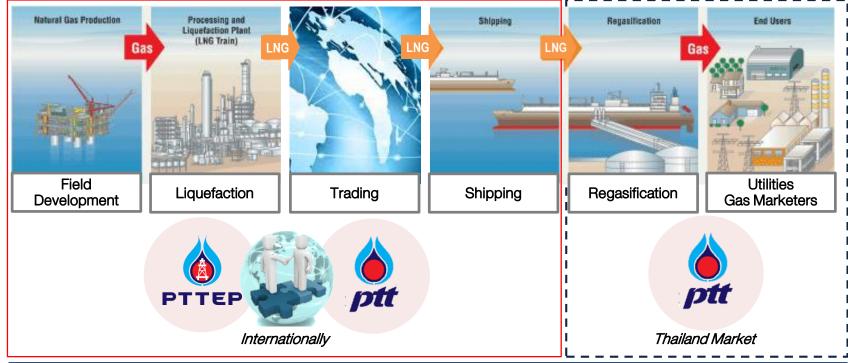
Exploration

- Known area & Acceptable risk
- Quick commercialization opportunities



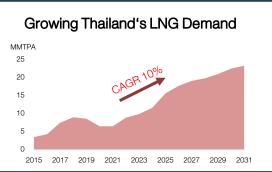
Cooperation with PTT in LNG Opportunities

Synergy to capture value in the LNG chain



Key Rationales & Benefits

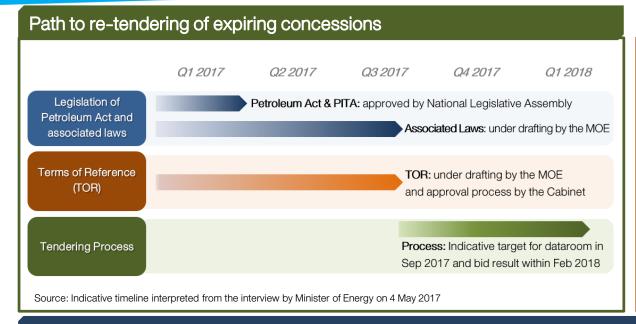
- LNG will be increasingly important to Thailand energy security
- Cooperation creates value from synergy between PTTEP's upstream expertise and PTT's midstream and gas business experiences
- LNG business cushions impact from oil prices volatility
- LNG business's risk is lower comparing to E&P business





Bongkot Concession Expiry

PTTEP is well-positioned to continue as operator



Associated Laws

5 Ministerial Regulations

- Prescribing the *Production Sharing Contract* Form
- Prescribing Rules, Procedures and Conditions in PSC Application
- Prescribing Rules, Procedures and period for payment of royalty for PSC contractors
- Prescribing the Service Contract Form
- Prescribing Rules, Procedures and Conditions in SCApplication

1 Announcement of Petroleum Committee

- Rules and procedures in determining E&P areas

PTTEP: Competitively positioned to continue as operator



Remark: * Bongkot field's performance as of 2016

Experienced and reliable

operated at average over 95%* field reliability

Operational efficiency through 20 years of factory drilling and GoT synergies

Deep subsurface understanding

Key enabler to deliver optimum resource recovery



Key Takeaways

Strived through the downturn and ready to compete



- +90% of sales volume concentrated in SEA
- Stable revenues from PTT +80% of sales volume via long term offtake contracts
- Gas-weighted portfolio to cushion oil price volatility

- 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
- \$4.4 Bn cash on hand and solid capital structure with low D/E ratio at 0.25x
- A consistent dividendpaying company for over 15 years
- Series of project developments in the pipeline and M&A
- Current gas-weighted portfolio in line with global trend towards gas
- Cooperation with PTT in LNG Value Chain investments







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



http://www.pttep.com



IR@pttep.com



+66 2 537 4000







Q1 2017 Financial Results	19-20
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Key Project Highlights by Region	24-30
Project Details	31-34
Organization Structure	35
Ratios and Formula	36



Summary of Q1 2017 Financial Results

Deliver strong performance from better sales price and low unit cost

Unit: MMUSD

Statement of Income	Q4 16	Q1 17	% QoQ	Q1 16*	% YoY
Total Revenues	1,089	1,092	0	1,085	1
Sales	1,038	1,040	0	1,045	0
Others	51	52	2	40	30
Sales Volume (BOED)	316,307	304,108	(4)	329,858***	(8)
Sales Price (USD/BOE)	35.65	38.00	7	35.08	8
Total Expenses	1,122	743	(34)	929	(20)
Major Expenses:					
Operating Expenses	167	142	(15)	130	9
Exploration Expenses	12	1	(92)	25	(96)
DD&A	509	420	(17)	518	(19)
Impairment loss on assets	47	-	(100)	-	-
Income Tax Expense	133	(8)	(>100)	30	(>100)
(Gain)/Loss on FX	16	(3)	(>100)	(6)	50
Net income from Continuing Operations	(33)	349	>100	156	>100
Profit (loss) from Discontinued Operations	17	-	(100)	1	(100)
Net Income	(16)	349	>100	157	>100
Recurring Net Income	123	211	72	116	82
Non-Recurring **	(139)	138	>100	41	>100

Note:

^{*} Represented

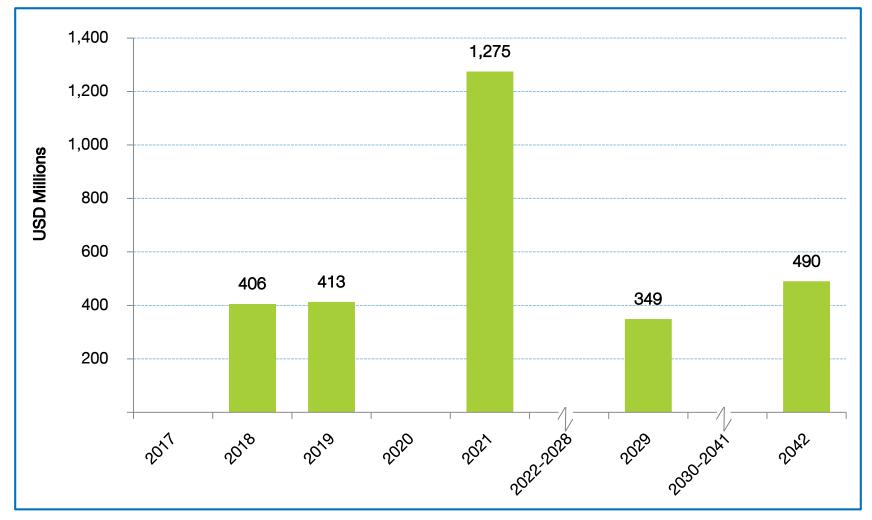
^{**} Includes Gain/(Loss) on FX, Deferred tax from Functional currency, Current Tax from FX Revaluation, Gain/(Loss) from Financial Instruments, impairment loss on assets and etc.

^{***} Sales volume includes discontinued operations

Debt Maturity Profile

Expect no debt maturity until 2018





Note: Excludes Hybrid bonds

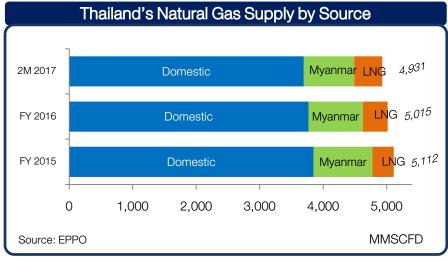
Unit: USD Millions or equivalent after cross currency swap

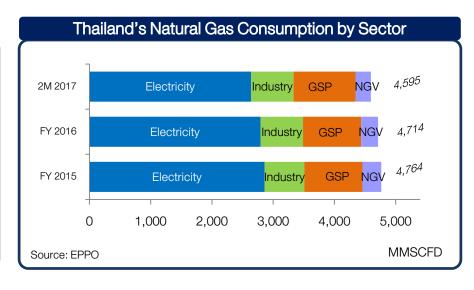


Thailand Economic Update

Economic growth with uncertainty on Thai Baht









Thailand's Gas Market

o In meeting stable domestic demand, saw a slight increase in LNG import and Myanmar volumes declined due to planned shutdown in 2M 2017.

Consensus on the exchange rate mostly depends on

- o FOMC's interest rate hike decision may cause the USD to appreciate against the THB
- Uncertainties surrounding Trump's Fiscal and Monetary policies



Sustainable development

Pursue long-term growth with social and environmental wellness

Dow Jones Sustainability Indices

In Collaboration with RobecoSAM (





ROBECOSAM Sustainability Award Gold Class 2017

2016 DJSI Listed Company

PTTEP is selected for the DJSI World Oil and Gas
Upstream & Integrated Industry with the highest score
and also awarded the RobecoSAM Gold Class
Sustainability Award 2017.







FTSE4Good Emerging Index

PTTEP is a constituent of the FTSE4Good Emerging Index following its launch in December 2016



Proven business integrity

Outstanding Sustainability Report Award 2016

Thai Listed Companies Association

Certified Member
Thailand's Private Sector Collective Action Coalition Against

CG Asia Recognition Awards

Corporate Governance Asia Magazine

Corruption (CAC)

Exemplary social contributor

Platinum Award for Best Community Program at the 9th Annual Global CSR Summit 2017

Stimulation, Intervention, Optimization of Services for Children (SIOLA) Program in Indonesia

Green driver to environment

Best Initiative Environmental Responsibility Award

The Asset Magazine

CDP's Climate Leadership Level

CDP

Excellence in the safety, health and environmental management awards

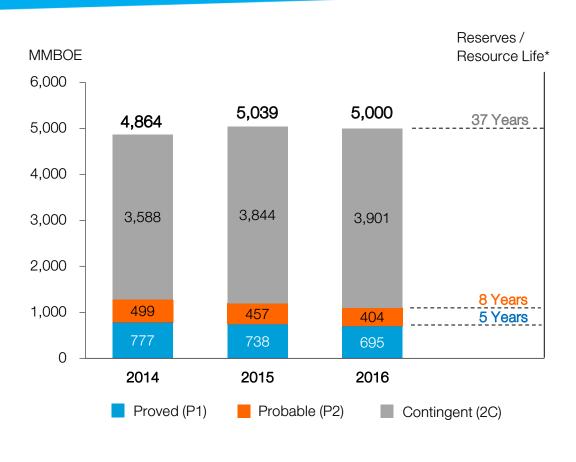
2016 SHE Award



Reserves and Resources

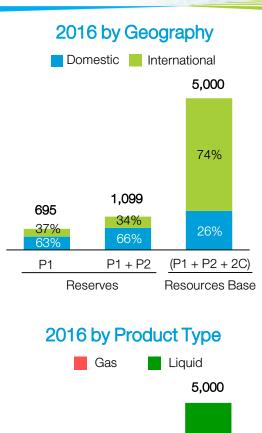
Maintaining reserve life with majority of reserves base in SEA

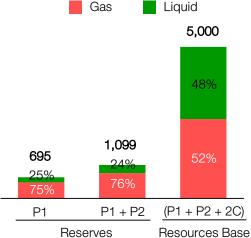




5-Year Average Proved Reserves Replacement Ratio (RRR)

2014	2015	2016
0.45x	0.50x	0.57x



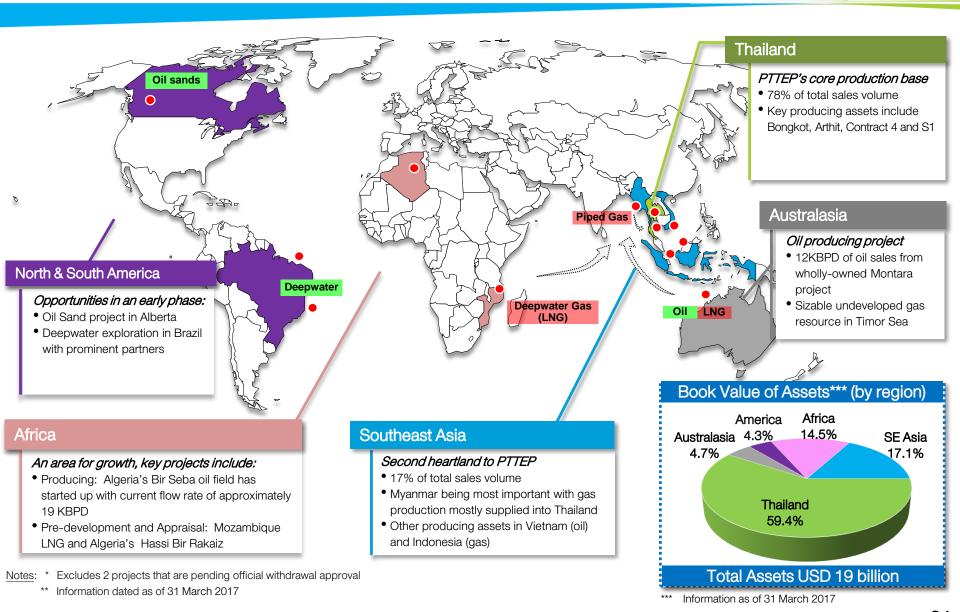


Based on total production of natural gas, condensate, and crude oil (including LPG) of 368 KBOED for the year ended December 31, 2016



Diversified international portfolio

Worldwide operations: 37 projects* in 10 countries

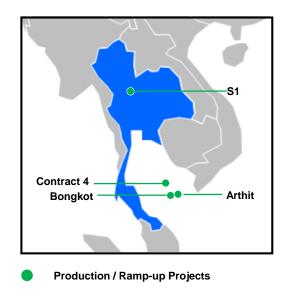




Thailand

Strong home base with legacy assets maintaining production plateau





Bongkot (44.4445% interest)

- Bongkot's natural gas sales volume of 928 MMSCFD in 3M 2017
- Average condensate sales volume was 26 KBPD in 3M 2017

S1 (100% interest)

- S1 is the largest onshore crude oil production field in Thailand
- Average crude oil sales volume was 29 KBPD in 3M 2017

Arthit (80% interest)

 Average sales volume in 3M 2017 was 214 MMSCFD of natural gas and 9.4 KBPD of condensates

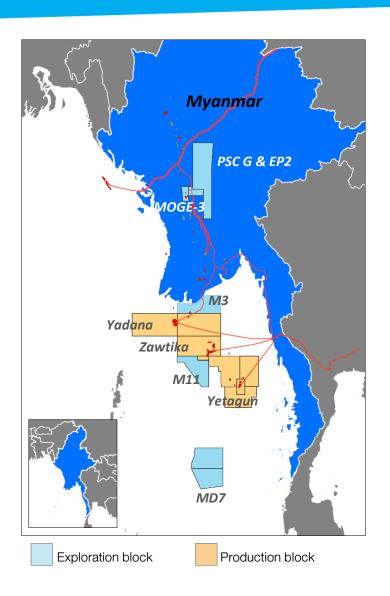
Acquisition of Hess Assets in Thailand

- PTTEP successfully acquired Hess Corporation's working interests in the Contract 4
 project and Sinphuhorm project, and now holds 60% working interest in the Contract 4
 project and 55% working interest in the Sinphuhorm project . PTTEP has also become
 the operator of the Sinphuhorm project
- The Contract 4 project had an average sales rate of 317 MMSCFD for natural gas and 13 KBPD for condensate in 3M 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 August 2014. Deliver gas supply of 272 MMSCFD in 3M 2017.
- Significant exploration acreage both onshore and offshore in the Moattama Basin

Project Status Appraisal Exploration Producing Yadana • PSC G & EP2 • M3 (25.5% WI) (70% WI) (80% WI) Yetagun • MOGE-3 (19.3% WI) (75% WI) Zawtika • M11 (80% WI) (100% WI) • MD7 (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 20 KBPD in 3M 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 224 MMSCFD in 3M 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

- ✓ Decree law ratified
- ✓ Substantial engagement with government to progress on remaining agreements and approvals to support investment

Financing

✓ Positive indications on project financing

Onwards to initial phase of 12 MMTPA

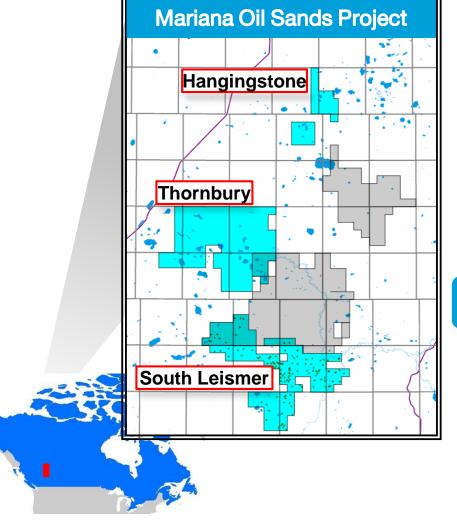
Source: Anadarko



America: Canada Oil Sands

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

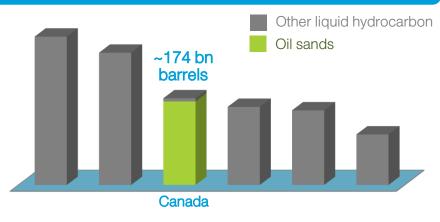




Project Overview

- 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
- Current focus on assessing cost reduction opportunity in light of low oil price environment.

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

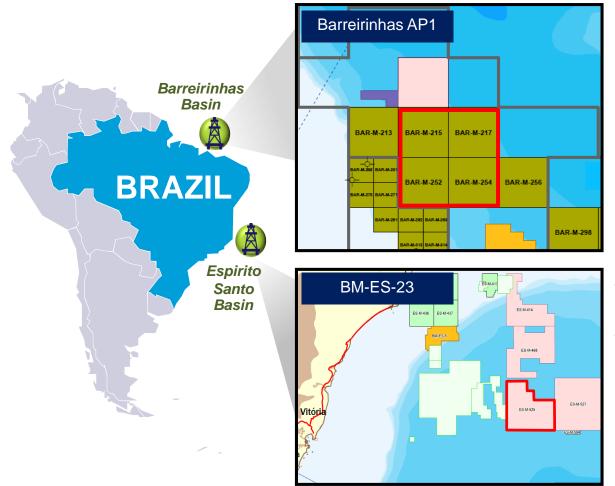


Source: Company data, BP Statistical Review of World Energy 2014



America: Brazil Deepwater

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)



Project information 1/4

Production phase: Thailand and JDA



	Project	roject Status*	Status*	PTTEP's	Partne	rs	3M 2017 Ave	rage Sales Volume **	2017 Key Activities
			Share	(as of Q12	2017)	Gas	Oil and Other		
Pro	oduction Phase								
Th	ailand and JDA								
1		OP	80%	Chevron MOECO	16% 4%	214 MMSCFD	Condensate: 9.4 k BPD	Ensure gas deliverability level at DCQ**** Drill development wells	
2	B6/27	OP	60%***			N/A	N/A	Subsurface study	
3	B8/32 & 9A		25%	Chevron MOECO KrisEnergy PSTL	51.66% 16.71% 4.63% 2%	114 MMSCFD	Crude: 28 k BPD	Drill development wells Perform waterflood activities	
4	Bongkot	OP	44.4445%	TOTAL British Gas	33.3333% 22.2222%	928 MMSCFD	Condensate: 26 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%	517 MMSCFD	Crude: 22 k BPD Condensate: 16 k BPD	 Drill exploration / appraisal / development wells Install wellhead platforms Perform waterflood activities 	
6	Contract 4 (Formerly Pailin)		60%	Chevron MOECO	35% 5%	317 MMSCFD	Condensate: 13 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%	10 MMSCFD	-		
8	G4/43		21.375%	Chevron MOECO PSTL	51% 21.25% 6.375%	2.5 MMSCFD	Crude: 5.8 k BPD	Drill development wells Perform waterflood activities	
9	G4/48		5%	Chevron MOECO	71.25% 23.75%	7 MMSCFD	Crude: 2.6 k BPD		
10	L53/43 & L54/43	OP	100%			-	Crude: 633 BPD	Drill exploration / appraisal / development wells	
11	PTTEP1	OP	100%			-	Crude: 287 BPD	Drill development wellsPerform waterflood activities	
12	S1	OP	100%			24 MMSCFD	Crude: 29 k BPD	Drill exploration / development wells Enhance oil recovery program includes waterflooding and artificial lift	
13	Sinphuhorm	OP	55%	Apico ExxonMobil	35% 10%	123 MMSCFD	Condensate: 424 BPD	Drill development wells	
14	MTJDA	JOC	50%	Petronas-Carigali	50%	229 MMSCFD	Condensate: 6.5 k BPD	Drill development wells Install wellhead platforms	
15	L22/43	OP	100%			-	Crude: 273 BPD	Drill development wells	

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

^{**} Sales volume stated at 100% basis.

^{**} Pending the approval of the partner divestment from DMF

^{****} DCQ = Daily Contractual Quantity



Project information 2/4

Production phase: Overseas



	Project	Status*	PTTEP's	Partne	rs	3M 2017 Average Sales Volume **		2017 Key Activities
			Share	(as of Q12	2017)	Gas	Oil and Other	
Pro	Production Phase							
Ove	<u>erseas</u>							
16	Vietnam 9-2	JOC	25%	PetroVietnam SOCO	50% 25%	13 MMSCFD	Crude: 4.4 k BPD	Maintain production operation Perform reservoir management
17	Yadana		25.5%	TOTAL Chevron MOGE	31.24% 28.26% 15%	693 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%	212 MMSCFD	Condensate: 3.9 k BPD	Drill appraisal / development wells Perform reservoir Management
19	Vietnam 16-1	JOC	28.5%	PetroVietnam SOCO OPECO	41% 28.5% 2%	-	Crude: 20 k BPD	Drill development wells Maintain production operation
20	PTTEP Australasia (PTTEP AA)	OP	90%-100% (varied by permits)			-	Crude: 12 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%	224 MMSCFD	Crude: 2.4 k BPD	Maintain production operation
22	Zawtika (M9 & a part of M11)	OP	80%	Myanma Oil and Gas Enterprise (MOGE)	20%	272 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: 3.3 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

^{***} Completion of divestment transaction in Dec 16

^{****} DCQ = Daily Contractual Quantity



Project information 3/4

Exploration phase



	Project	Status*	PTTEP's Share	Partners (as of Q1 2017)	2017 Key Activities				
Exp	Exploration Phase								
Tha	ailand and JDA								
24	G9/43	OP	100%						
Ov	<u>erseas</u>								
25	Myanmar M3	ОР	80%	MOECO 20%	Assess resource potential and commercial feasibility				
26	Mozambique Rovuma Offshore Area 1		8.5%	Anadarko, Mitsui, 26.5%,20% ENH, Bharat Petroleum, 15%,10%, BREML, OVL 10%,10%	Preparatory work for Final Investment Decision (FID) including LNG marketing and finalization of remaining commercial contracts				
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%	Negotiate a GSA with the Vietnamese government				
30	Vietnam 52/97		7%	PVN 73.4% MOECO 19.6%	Negotiate a GSA with the Vietnamese government				
31	Myanmar PSC G and EP 2	ОР	70%	WinPreciousResources 10% MOECO 10% Palang Sophon Offshore 10%	Conduct G&G studies				
32	Myanmar MD 7	OP	50%	TOTAL 50%	Assess resource potential				
33	Mariana Oil Sands	ОР	100%		Assess development approach and cost reduction opportunity				
34	Barreirinhas AP1		25%	Shell Brasil 65% Mitsui E&P Brasil 10%	Acquire 3D seismic				

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



Project information 4/4

Exploration phase



	Project	Status*	PTTEP's Share	Partners (as of Q1 2017)	2017 Key Activities		
Exp	Exploration Phase						
Ove	erseas (Cont'd)						
35	Myanmar MOGE 3	ОР	75%	Palang Sophon Offshore 10% MOECO 10% WinPreciousResources 5%			
36	Brazil BM-ES-23		20%	Petrobras 65% INPEX 15%			
37	Malaysia SK410B	ОР	42.5%	KUFPEC 42.5% PSCB 15%			

Remarks: 37 projects exclude 2 projects that are pending official withdrawal approval

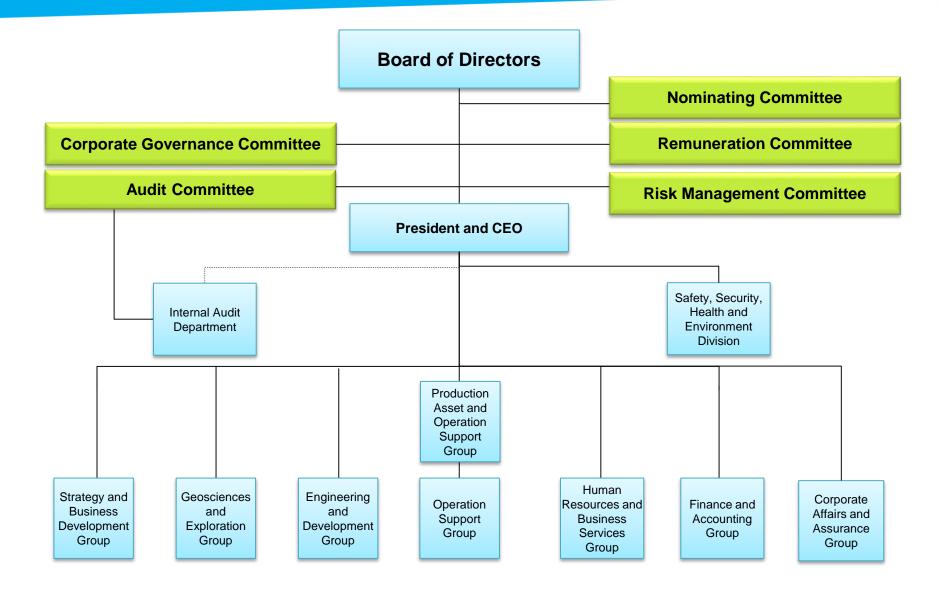
^{*} Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship



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 & Amortise 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 & Amortize Bond Issuing Cost