





Company Overview

Financial Performance

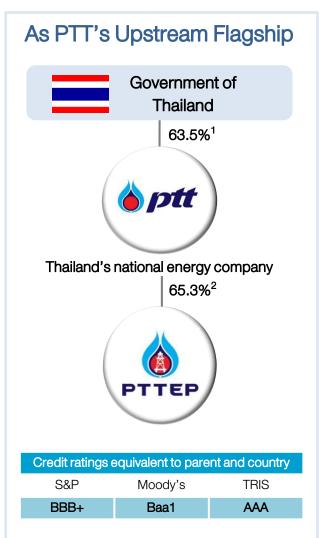
Strategy and Growth

Investment Plan & Outlook

PTTEP: the E&P Flagship of PTT Group





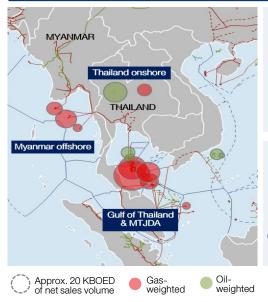


Largest oil and gas producers in Thailand and Myanmar

Synergy with PTT's gas value chain through its dominant position in the regional gas market

Opportunities to expand into regional investments

PTTEP's operations in SEA



97%

of PTTEP's total sales volume

+99%

Reliability of plants and field facilities*

83%

of PTTEP's sales volume sold to PTT

13 USD/BOE

Average regional cash cost

* of PTTEP-operated projects in Gulf of Thailand, excl. planned shutdown All figures are as of 1H2018

Notes:

- 1. 51.1% is directly held by the Government of Thailand (Ministry of Finance), with the remaining 12.4% held by the state-controlled Vayupak Fund I as of 7 March 2018
- 2. Ownership as of 7 February 2018





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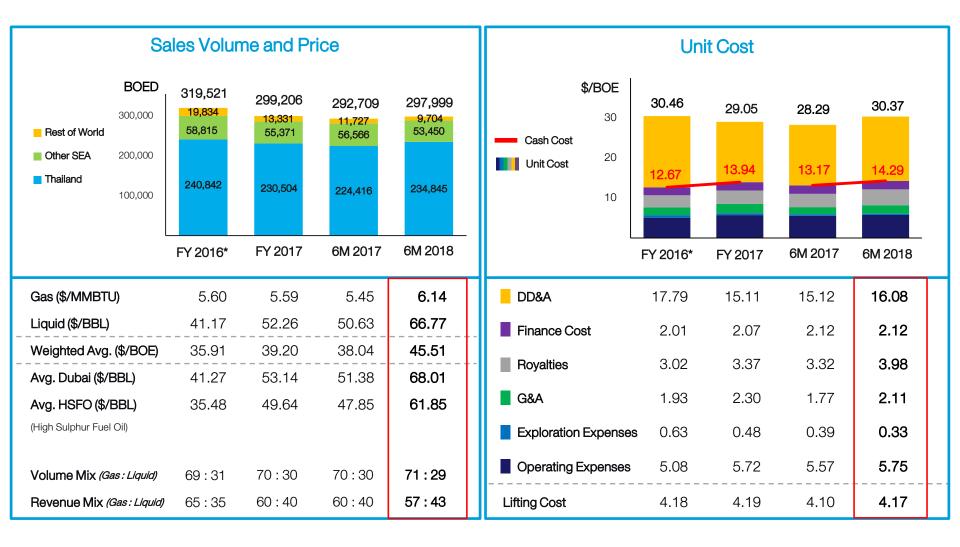
Strategy and Growth

Investment Plan & Outlook

Sales Volume & Unit Cost







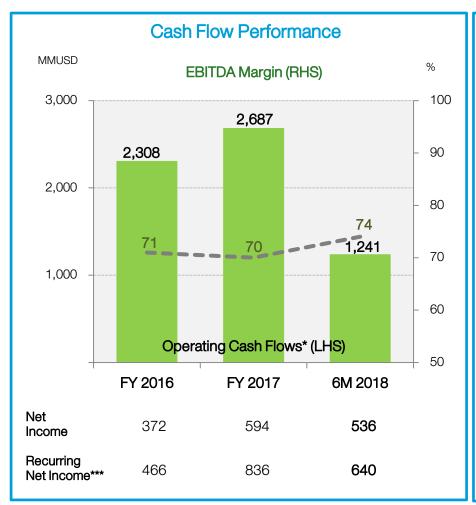
Note: * Represented and includes discontinued operations until end of August 2016

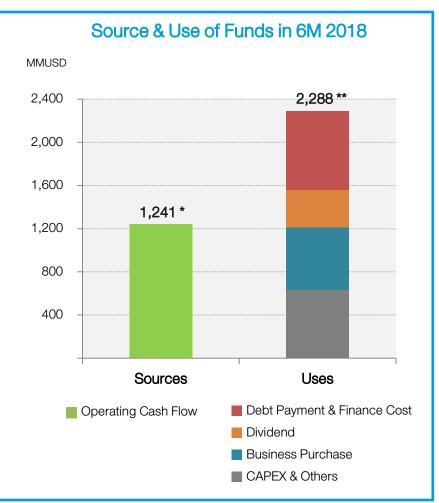
The formulas for calculating ratios are provided in the supplementary section for your reference

Cash Flow Performance

Maintained healthy operating cash flow







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

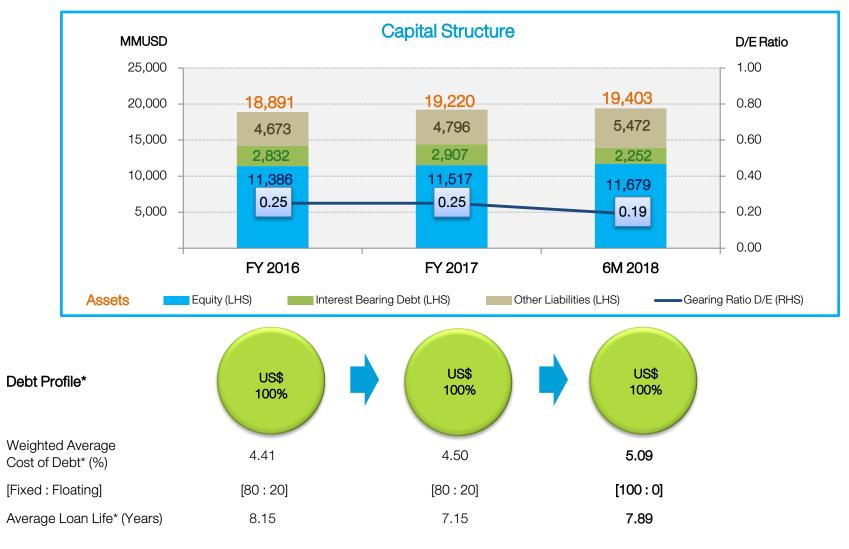
^{**} Excludes cash flows for investing in short-term investments (Fixed deposit > 3 months)

^{***} 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

Robust financial position with low gearing ratio





Remark: * Excludes Hybrid bonds

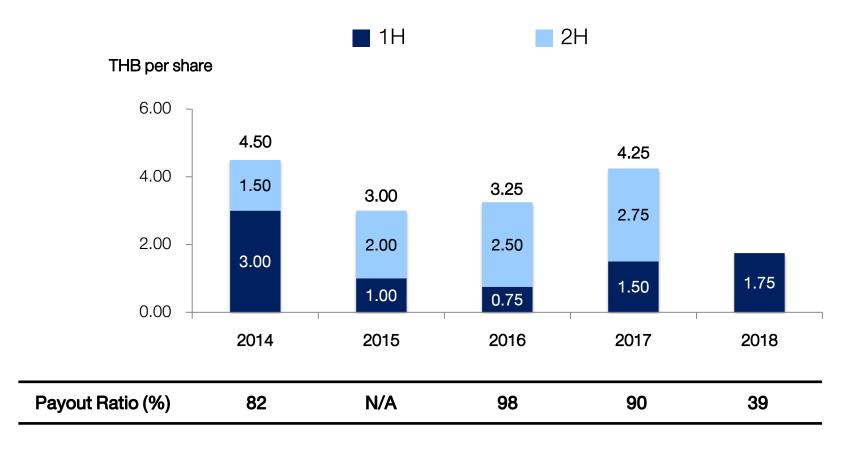
Dividends

Demonstrating our dividend commitment to shareholders



Dividend Payment History

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







Company Overview

Financial Performance

Strategy and Growth

Investment Plan & Outlook

RESET to Uphold Competitiveness





Ways Results

Optimizing Producing Projects



Capital Management

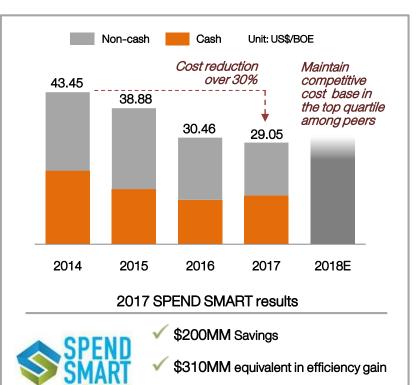


Organizational Restructuring to cope with changing E&P landscape



Cost Management through SPEND SMART campaign











Engineering & Construction



Production Operations



Maintenance & Inspection



Drilling & Well



Logistics



Procurement



500+ new ideas initiated

Finance & Accounting



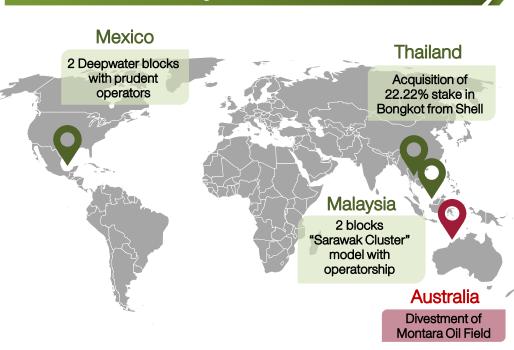
G&A

REFOCUS through Series of Portfolio Rationalization

Strengthen Focus areas, Reposition Non-core



Strengthen focus areas



Reposition non-core

Transaction: In July 2018, PTTEP signed SPA to divest 100% stake in Montara field to Jadestone Energy (Eagle) Pty Ltd

Rationale: Be a non-operating position in non-core area and reduce exposure on mature and high cost operating assets

Impact to FY2018's performance

After 22.22% stake acquisition of Bongkot and the divestment of Montara field

Sales volume:



* Taken into account the additional Bongkot's sale contribution from late June 2018 (daily sales volume of 35 KBOED) offset with Montara divestment

Unit Cost:

 Continue to maintain overall unit cost in range between 30-31 \$/BOE

Financial Position:

- Immediate cash flow contribution from additional stake in Bongkot
- Enhance overall profitability

Reserves life:

Neutral to R/P ratio

Fast-tracking FID of Key Pre-Development Projects

Stronger path towards Mozambique LNG FID by 1H2019



The Mozambique LNG: Significant progress to date



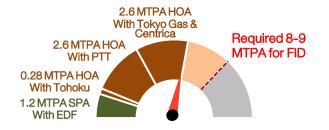
Mozambique Rovuma Offshore Area 1

Completed

- Legal & Contractual Framework and Marine Concessions as well as the development plan approved
- ☑ Resettlement Commenced and site preparation underway
- Off-take agreement: 1.2 MTPA SPA signed with EDF
- M Onshore contractor selected

In-Progress

- Offshore contractor selections
- Project finance: Secure 2/3 leverage
- Marketing: SPA negotiations underway with 6.7 MTPA of announced deals



Along with the acceleration of other pre-FID projects

Southwest Vietnam



Finalizing commercial agreements

Ubon (Contract 4)



Preparing POD with partners

Algeria HBR



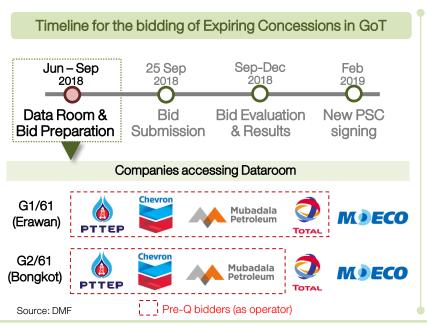
- Approved POD
- Finalizing documents with partners

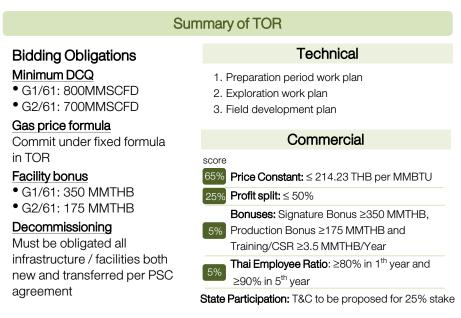
Continue to Pursue Other Growth Strategies



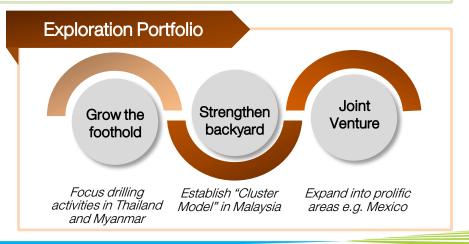


Strive to win the Bidding: PTTEP is well-positioned to bid for Bongkot and Erawan









RENEW in Response to Changing Industry Landscape

Strengthen core competency and business diversification



Enhancing Core Capability in Exploration & Production



Value through Business Diversification



ORGANIZATIONAL TRANSFORMATION

Innovative, agile and result-driven



E&P TECHNOLOGY

Drive exploration success, production enhancement and green practices



DIGITAL TRANSFORMATION

Embrace digital technologies to drive efficiency



E&P-RELATED BUSINESS

Explore for value enhancement e.g. decommissioning



Extend presence across the gas chain



Midstream Invest to support E&P and develop

LNG: diversified LNG supply and trading portfolio

for Asian market

Gas Create market beyond Thailand; and capture

Market: value along the gas-to-power chain



RENEWABLE ENERGY

Evaluate strategic and competency compatibility





Company Overview

Financial Performance

Strategy and Growth

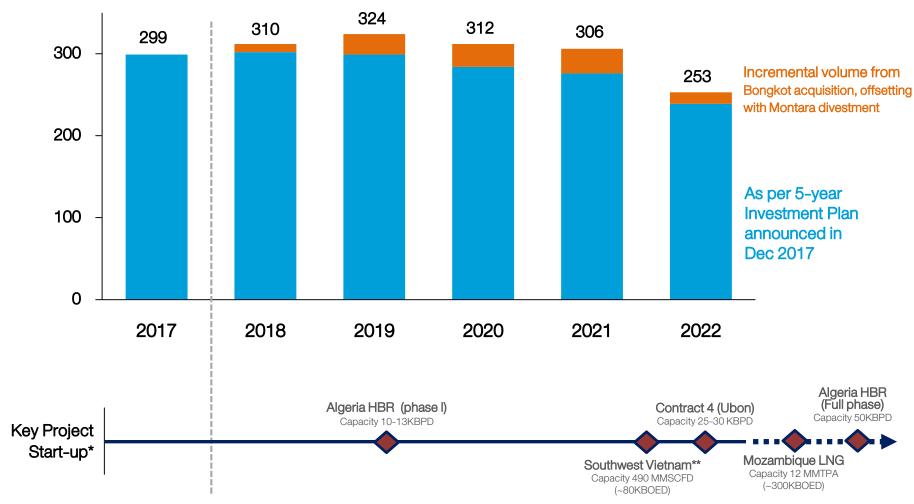
Investment Plan & Outlook

Sales Volume

M&As and concession bidding remain key upside



Unit: KBOED



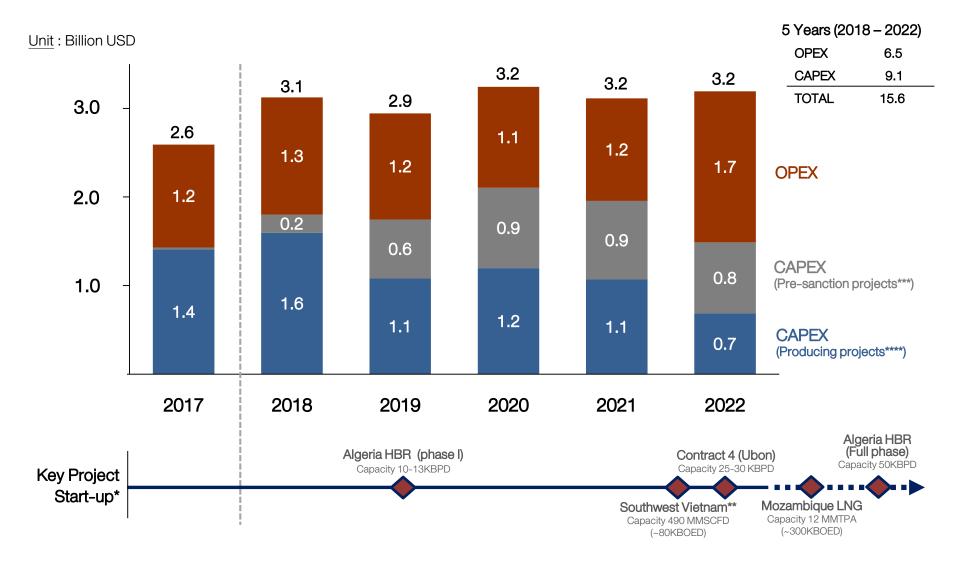
Note: * Subject to FID timing

** Expected project start-up in late 2021

Investment Plan (excluding Acquisition cost on M&As)

Disciplined spending on core assets for future production growth





Note: * Subject to FID timing

^{**} Expected project start-up in late 2021

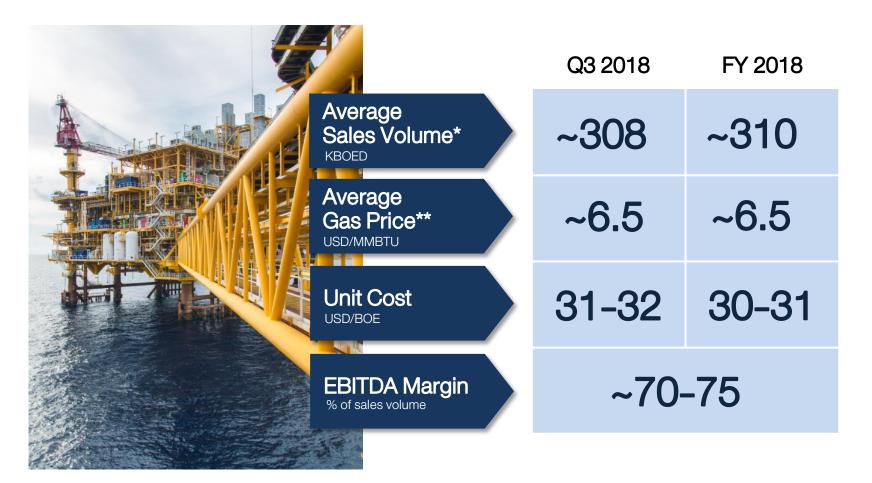
^{***} Pre-sanction projects include Mozambique LNG, Contract 4 (Ubon), Algeria HBR and Southwest Vietnam

Includes exploration and appraisal in all projects and head office CAPEX

Financial Outlook

Expect strong core operational performance and margin





Note: * Included sales volume from 1) the additional stakes in Bongkot and 2) Montara until the expected divestment completion

** Based on FY2018 Dubai oil price at 70 \$/BBL

Key Takeaways

Maximizing value through solid growth platforms



Strengthen fundamental

- Sustain competitive cost structure
- Uplift sales volume through efficiency improvement
- Maintain healthy margin

Focus on production and reserves accretion

- Implement series of portfolio rationalization
- Continue gas-weighted portfolio in line with global trend
- Push forward FID of key pre-development projects
- Expansion exploration portfolio and M&A execution in focus areas

Ready for future challenges

- Organizational Transformation
- Collaboration with PTT for LNG value chain investments
- Diversification through new business opportunities

Solid balance sheet to support growth

- \$3.4 Bn cash on hand with concrete capital structure
- Consistent dividend payments to shareholders



Thank you and Q&A



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



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Supplementary information





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Summary of Q2 2018 Financial Results



Strong core earnings supported by higher selling price and volumes

Unit: MMUSD

Statement of Income	Q1 18	Q2 18	% QoQ	Q2 17	% YoY	6M 18	6M 17	% YTD
Total Revenues	1,240	1,347	9%	1,032	31%	2,562	2,121	21%
Sales	1,161	1,293	11%	975	33%	2,454	2,015	22%
Others	79	54	(32%)	57	(5%)	108	106	2%
Sales Volume (BOED)	293,099	302,846	3%	281,435	8%	297,999	292,709	2%
Sales Price (USD/BOE)	44.01	46.94	7%	38.08	23%	45.51	38.04	20%
Total Expenses	817	1,234	51%	812	52%	2,026	1,552	31%
Major Expenses:								
Operating Expenses	141	169	20%	153	10%	310	295	5%
Exploration Expenses	3	15	>100%	19	(21%)	18	20	(10%)
DD&A	408	460	13%	381	21%	868	801	8%
Income Tax Expense	5	329	>100%	67	>100%	334	59	>100%
(Gain)/Loss on FX	(25)	30	>100%	(11)	>100%	5	(14)	>100%
Net Income	423	113	(73%)	220	(49%)	536	569	(6%)
Recurring Net Income	304	336	11%	167	>100%	640	378	69%
Non-Recurring *	119	(223)	(>100%)	53	(>100%)	(104)	191	(>100%)

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

Financial Performance: Income Statement

Maintained strong EBITDA margin



	Q1 18	Q2 18	Q2 17	6M 18	6M 17
Sales and Revenue from Pipeline Transportation (MMUSD)	1,184	1,319	993	2,503	2,046
EBITDA (MMUSD)	879	965	685	1,844	1,461
Net Income (MMUSD)	423	113	220	536	569
Recurring Net Income (MMUSD)	304	336	167	640	378
Earning Per Share (USD)	0.10	0.03	0.04	0.13	0.13
Key Financial Ratios					
EBITDA Margin (%)	74	73	69	74	71
Return on Equity (%) (LTM)	6	5	6	5	6
Return on Capital Employed (%) (LTM)	5	5	6	5	6
Return on Equity (%) (LTM, Recurring Net Income)	8	9	5	9	5
Return on Capital Employed (%) (LTM, Recurring Net Income)	7	8	5	8	5

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

Financial Performance: Balance Sheet

Robust financial position with low gearing ratio



	YE 17	Q2 18
Total Assets (MMUSD)	19,220	19,403
- Cash & cash equivalents* (MMUSD)	4,468	3,421
Total Liabilities (MMUSD)	7,703	7,724
- Interest bearing debt (MMUSD)	2,907	2,252
Equity (MMUSD)	11,517	11,679
Key Financial Ratios		
Total Debt to Equity (X)	0.25	0.19
Net Debt* to Equity (X)	(0.14)	(0.10)
Total Debt to Capitalization (X)	0.20	0.16
Total Debt to EBITDA (X)	0.95	0.65
EBITDA Interest Coverage (X)	23	25

Credit Ratings: BBB+ (S&P), Baa1 (Moody's), AAA (TRIS)

Weighted Average Cost of Debt**: 5.09%

Average Loan Life**: 7.89 years

Note: * Cash & Cash Equivalents (Cash on hand) include Short-term Investments (Fixed deposit > 3 months)

Net Debt = Total Debt less Cash & Cash Equivalents and Short-term Investments

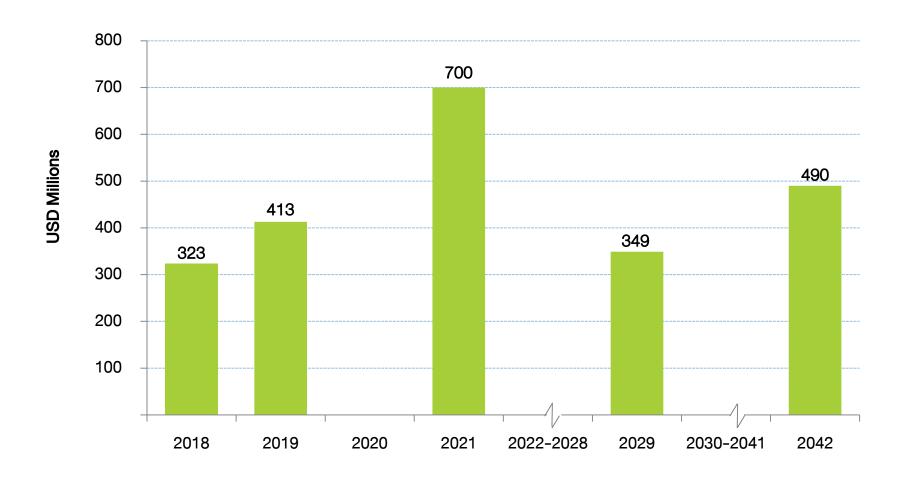
The formulas for calculating ratios are provided in the supplementary section for your reference

^{**} Excludes hybrid bonds

Debt Maturity Profile

(as of end of June 2018)





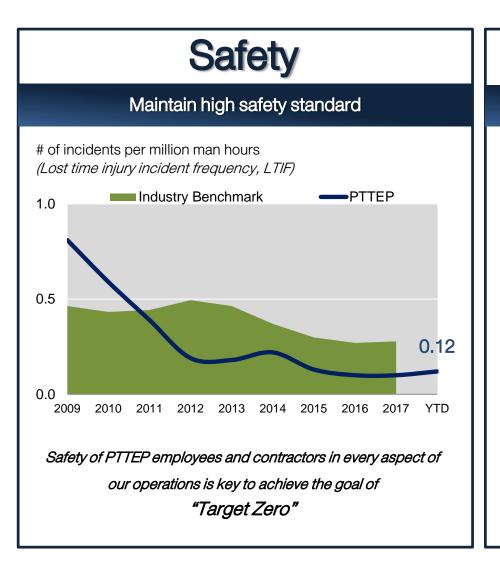
Note: Excludes Hybrid bonds

Unit: USD Millions or equivalent after cross currency swap

Priority on Safety and Sustainability







Sustainability

Create a long-term value for society



PTTEP as a Member of CAC

(Thailand's Private Sector Collective Action Coalition Against Corruption Council)

To demonstrates our commitment to conduct business with transparency

Business
Growth

SUSTAINABILITY

Social Environmental Stewardship

PTTEP won 6 international CSR awards 2018 from 4 key CSR projects

- 3 Awards from the 10th Annual Global CSR Summit and Awards and the Global Good Governance Awards 2018, Indonesia
- 1 Award from the Area Responsible Entrepreneurship Awards 2018, Philippines
- 2 Awards from the 2018 Asia-Pacific Stevie Awards, Hong Kong



H.T.M.S. Underwater Learning Site Project



Free Clinic Project



Waste to Energy Project



Crab Hatchery Learning Center Project

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.







FTSE4Good Emerging Index 2017

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



Proven business integrity

Asia's Icon on Corporate Governance Award

Corporate Governance Asia Magazine

Platinum Corporate Award

The Asset Corporate Awards 2017

Sustainability Report Award 2017

Securities and Exchange Commission

Exemplary social contributor

Platinum and Gold Awards for 3 CSR Projects: Best Environmental Excellence and Community Program

the 10th Annual Global CSR Summit 2018

Silver Award for Free Clinic and Waste to Energy Project:

the 2018 Asia-Pacific Stevie Awards Program

Green driver to environment

Water A List Award

Carbon Disclosure Project (CDP)

2017 LESS Award Letter of Recognition

Thailand Greenhouse Gas Management Organization

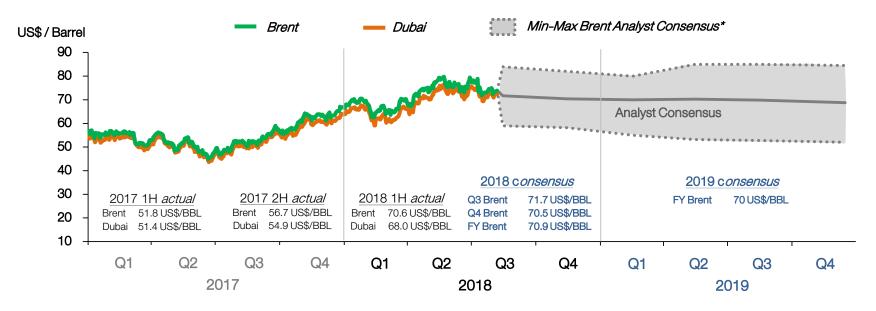
Thailand Occupational Safety and Health Awards

the Ministry of Labour

Oil Prices

Oil prices stabilize in 65-75 \$/BBL range as market rebalances





Q2 2018 Highlights

Higher than expected supply cut compliance rate

Compliance Rate Achieved as of Jun'18

OPEC 120% Non-OPEC 66%

- Lower crude supply from Venezuela as a result of US financial sanctions and port dispute with ConocoPhillips
- Lower crude export from Iran due to nuclear sanctions by US
- Output raise from Saudi Arabia and Russia to replace missing volumes from Venezuela and Iran

2H 2018 Outlook

 Continued compliance on supply cut and potential extension of supply cut agreement among OPEC and Non-OPEC

Compliance Rate Target from Jul'18 onwards

OPEC Target 100%

- Prolonged decline in supply from Venezuela and Iran driven by US sanctions
- Slow down in US production ramp up due to pipeline capacity shortage
- Pressure from production uplift from Saudi Arabia and Russia as well as economic momentum around US-China trade war

Oil Market Outlook

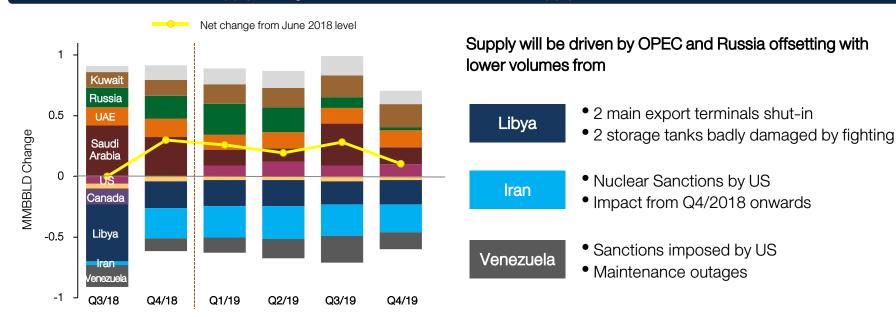
Market balancing continues in 2019



Oil demand is forecasted to continue to outstrip supply towards 2019, with support from demand growth in China, India and US



Supply change forecast based on June 2018 supply of ~98.8 MMBBLD



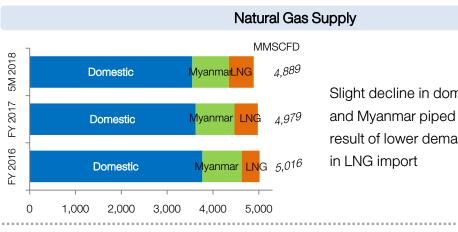
Source: IEA, Wood Mackenzie

Thailand Updates

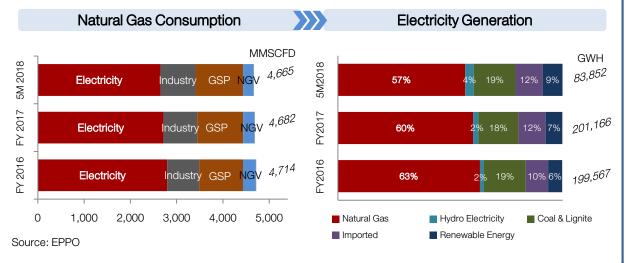




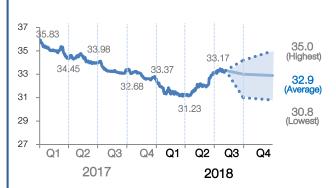
Thailand Energy Overview



Slight decline in domestic production and Myanmar piped gas imports as a result of lower demands and growth



Exchange Rate Movement (THB/USD)



Consensus on the exchange rate mostly depends on

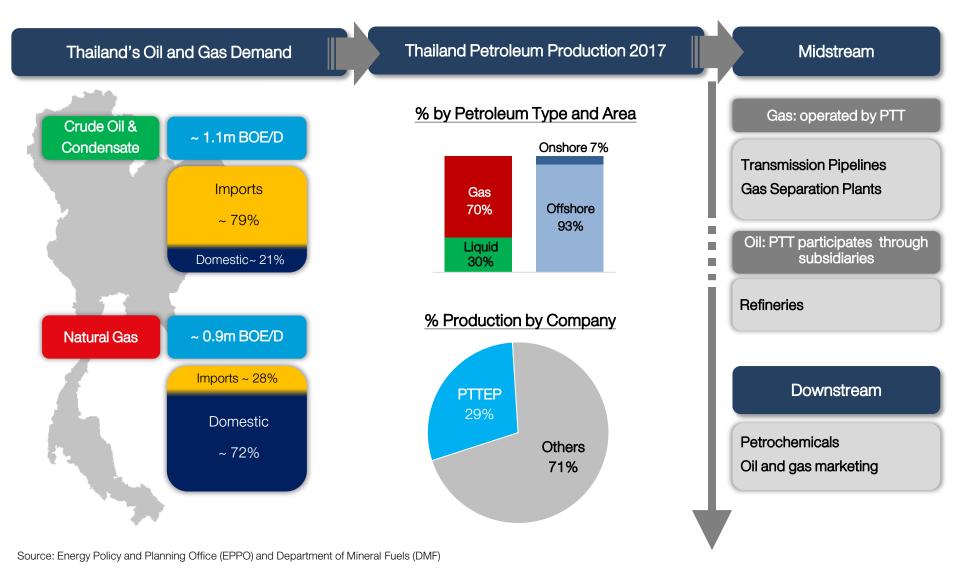
- Continued uncertainty around monetary policies of major global economies such as Europe
- Trade war between the US and China
- The political instability in several regions

Source: Bank of Thailand, Bloomberg Forecast based on Bloomberg Consensus as of 6 August 2018

Thailand's Energy Value Chain



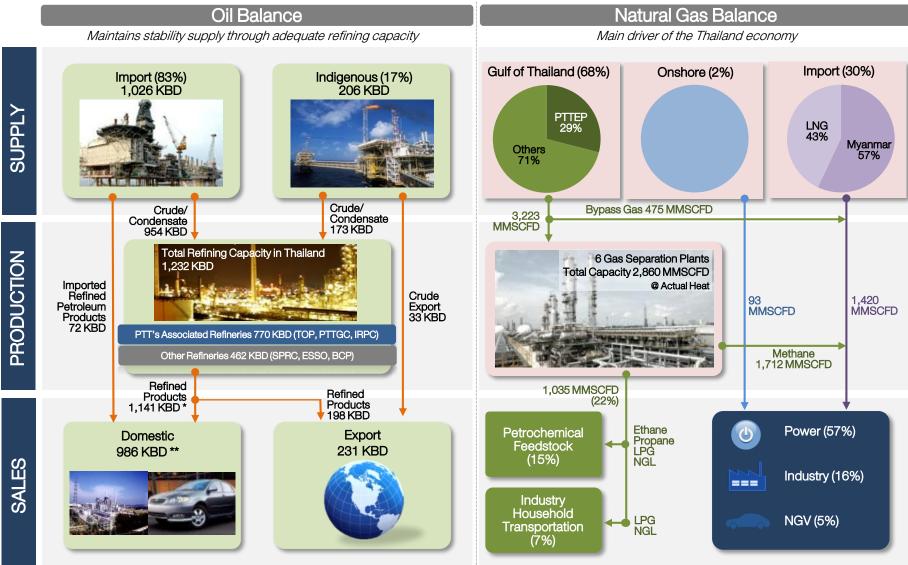




Thailand's Oil and Gas Balance

January – June 2018





Source: PTIT

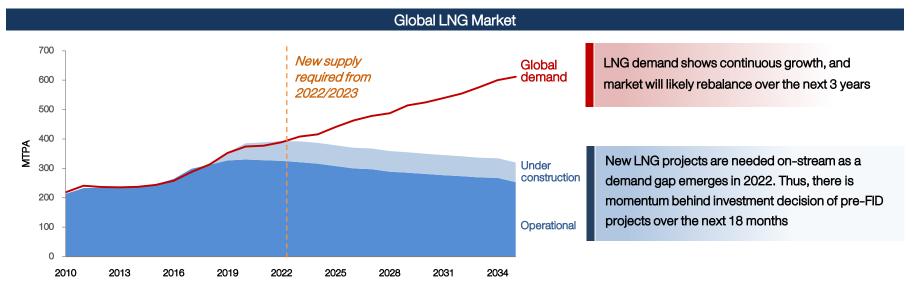
Remark: * Refined product from refineries = 1,031 KBD, including domestic supply of LPG from GSPs and Petrochemical Plants = 110 KBD

** Not included Inventory MMSCFD @ Heating Value 1,000 Btu/ft³

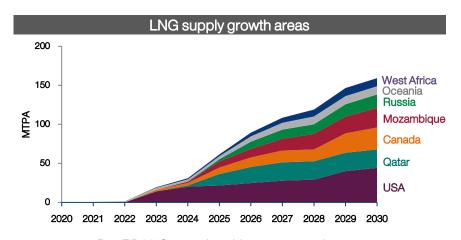
Global LNG Market Update

In need of new LNG supply from 2022/2023 onwards

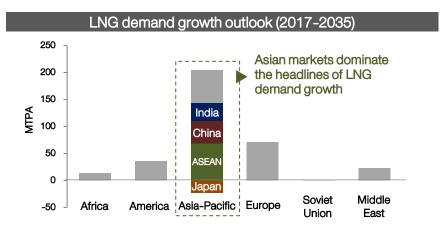




"Risks of a global LNG oversupply continue to reduce but price recovery might be dented by the amount of new FIDs"



Pre-FID LNG capacity adds are expected, and with current strong fundamental, players speed-up to take FID

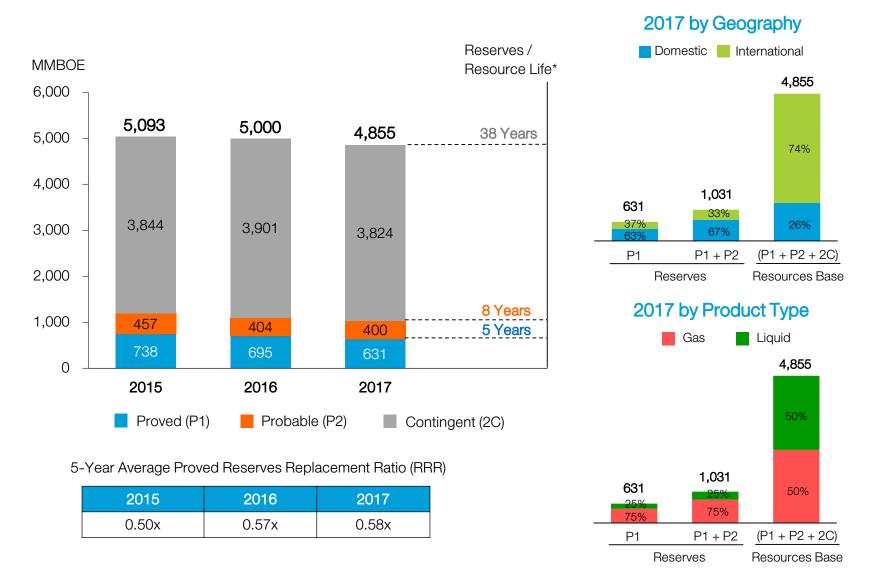


Key drivers of Asian LNG demand growth include pro-gas energy policies and emerging market growth accelerating

Reserves and Resources





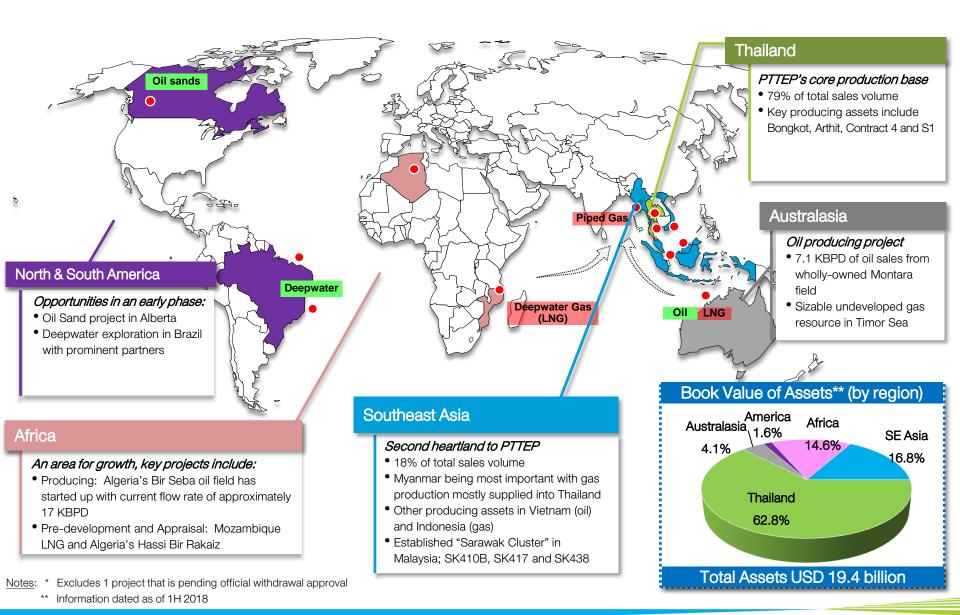


^{*} Based on total production of natural gas, condensate, and crude oil (including LPG) of 347 KBOED for the year ended December 31, 2017

Diversified international portfolio

Worldwide operations: 40 projects* in 11 countries





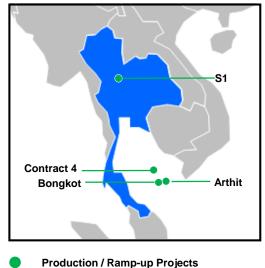
35

Thailand

Strong home base with legacy assets maintaining production plateau







Bongkot (66.6667% interest)

- Bongkot's natural gas sales volume of 776 MMSCFD in 1H2018.
- Average condensate sales volume was 26 KBPD in 1H2018.

S1 (100% interest)

- S1 is the largest onshore crude oil production field in Thailand.
- Average crude oil sales volume was 27 KBPD in 1H2018.

Arthit (80% interest)

 Average sales volume in 1H2018 was 221 MMSCFD of natural gas and 10 KBPD of condensates.

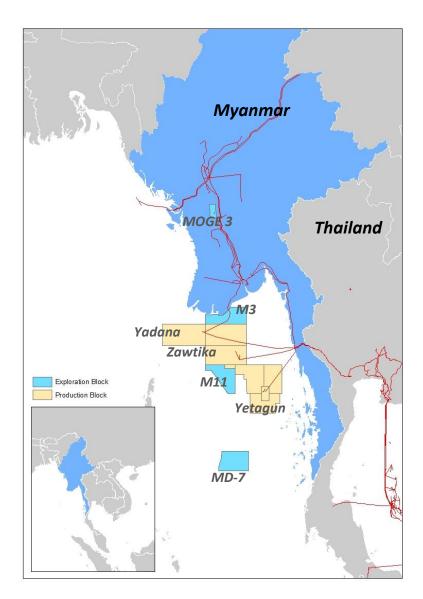
Contract 4 (60% interest)

- Acquired from Hess Corporation in 2014.
- Contract 4 had an average sales rate of 403 MMSCFD for natural gas and 17 KBPD for condensate in 1H2018.

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 304 MMSCFD in 1H2018.
- 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





Vietnam 16-1









Production / Ramp-up Projects

Vietnam 16-1 (28.5% interest)

- Average sales volume of crude oil was 19 KBPD in 1H2018.
- The project is preparing further production drilling plan aiming to maintain production plateau.

Natuna Sea A (11.5% interest)

 Average sales volume of natural gas was 242 MMSCFD in 1H2018.

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 – targeting at 1H2019

Technical

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

Commercial

✓ Recently signed SPA of 1.2 MTPA with EDF (French) and multiple HOAs secured

Regulatory

- ✓ Received approval on marine concession and development plan of Golfinho-Atum Field
- ✓ Commenced the resettlement plan in Q4 2017

Financing

✓ On-going negotiation for project financing

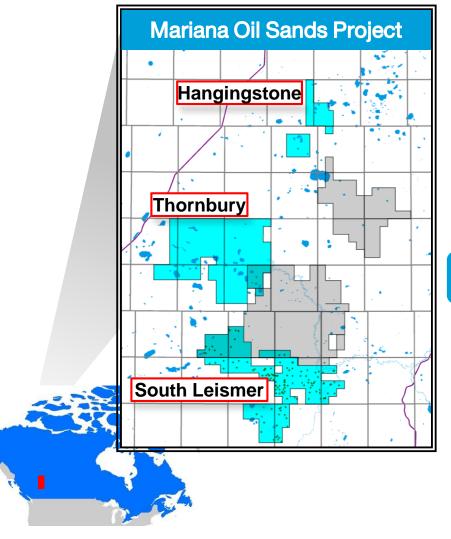
Onwards to initial phase of 12 MMTPA

Source: Anadarko

America: Canada Oil Sands



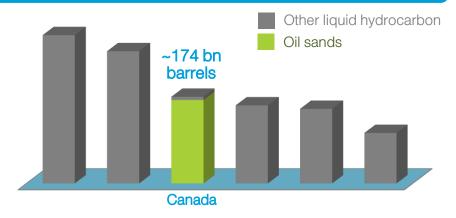




Project Overview

- 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

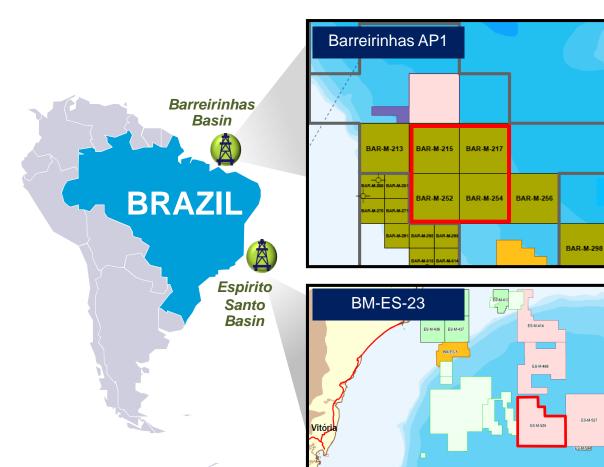


Source: Company data, BP Statistical Review of World Energy 2014

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%)

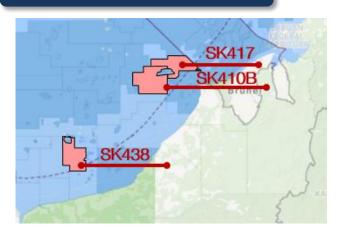
Source: The National Agency of Petroleum, Natural Gas and Biofuels, Brazil (the ANP)

Unlocking the Exploration Potentials



Expanded portfolio in high prolific areas: Malaysia and Mexico

Sarawak Basin, Malaysia



PTTEP's Block: SK410B (42.5%), SK417 (80%) and SK438 (80%) with operatorship

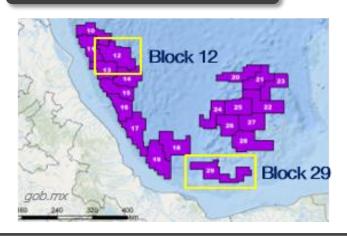
Location: Sarawak Basin, Malaysia

Characteristic: Shallow-water with low operational risk

Exploration Strategy:

- Expect exploration drilling activities during 2018-2021
- "Cluster Model" synergy operations within basin to optimize costs
- In place production infrastructure in nearby area

Gulf of Mexico, Mexico



PTTEP's Block: Block 12 (20%) and Block 29 (16.67%), as non-operating partner

Location: Mexican Ridges Basin for Block 12 and Campeche Basin for Block 29

Characteristic: Deep-water with high petroleum potentials and attractive fiscal regime

Exploration Strategy:

- Joined hand with prudent operators being Petronas and Repsol
- Mexico still has high potential prospective resources with significant sizeable discoveries

LNG Value Chain Investment: MLNG Train 9





10% Investment in MLNG Train 9 by PTT Global LNG....
....continue to look for more LNG opportunities globally



MLNG Train 9 - Overview							
Location	ion Bintulu, Sarawak, Malaysia						
Asset	Asset Liquefaction Train 9 Tank 7						
Phase	Commercial: Jan 2017						
Capacity	3.6MTPA						
Contract Life	20 years						
Partners (subject to closing)	Petronas JX Nippon PTT Global LNG	80% 10% 10%	ptt LOSELLING				

Investment Rationales

- Capture opportunity from increasing LNG demand as a supplement to Thailand gas production
- Venture into midstream LNG as a mean to secure LNG supply and growth of PTT and PTTEP, as well as capture value added along with LNG value chain
- Low risk and highly market secured opportunity
 - Highly experienced operator
 - Already commenced commercial production with immediate revenue stream
- In vicinity of future upstream opportunities in focus area – offshore Sarawak

Project information 1/3

Production phase: Thailand and JDA



	Project	Status*	PTTEP's			1H2018 Avei	rage Sales Volume **	2019 Key Activities
			Share			Gas Oil and Other		2018 Key Activities
Pro	duction Phase							
Tha	ailand and JDA							
1	Arthit	OP	80%	Chevron MOECO	16% 4%	221 MMSCFD	Condensate: 10 k BPD	Ensure gas deliverability level at DCQ**** Drill development wells
2	B6/27	OP	100%			-	-	Prepare drilling plan
3	B8/32 & 9A		25%	Chevron MOECO KrisEnergy Palang Sophon	51.66% 16.71% 4.63% 2%	68 MMSCFD	Crude: 18 k BPD	 Drill development wells Perform waterflood activities
4	Bongkot	OP	66.6667%	TOTAL	33.3333%	776 MMSCFD	Condensate: 26 k BPD	Ensure gas deliverability level at DCQ**** Drill development wells Install wellhead platforms completed the acquisition of 22.2222% from shell Dataroom assessment for bidding
5	Contract 3 (Formerly Unocal III)		5%	Chevron MOECO	71.25% 23.75%	623 MMSCFD	Crude: 23 k BPD Condensate: 22 k BPD	Drill exploration / appraisal / development wells Install wellhead platforms Perform waterflood activities
6	Contract 4 (Formerly Pailin)		60%	Chevron MOECO	35% 5%	403 MMSCFD	Condensate: 17 k BPD	Ensure gas deliverability level at DCQ**** Drill development wells Install wellhead platforms In process of pre-development of Ubon field
7	E5		20%	ExxonMobil	80%	8.3 MMSCFD	-	
8	G4/43		21.375%	Chevron MOECO Palang Sophon	51% 21.25% 6.375%	1.4 MMSCFD	Crude: 4.2 k BPD	Drill development wellsPerform waterflood activities
9	G4/48		5%	Chevron MOECO	71.25% 23.75%	4.7 MMSCFD	Crude: 0.9 k BPD	
10	L53/43 & L54/43	OP	100%			-	Crude: 1.1 k BPD	Drill exploration / appraisal / development wells
11	PTTEP1	OP	100%			-	Crude: 273 BPD	Drill development wellsPerform waterflood activities
12	S1	OP	100%			15 MMSCFD	Crude: 27 k BPD LPG: 0.2 k MT/D	 Drill exploration / development wells Enhance oil recovery program includes waterflooding and artificial lift
13	Sinphuhorm	OP	55%	Apico ExxonMobil	35% 10%	77 MMSCFD	Condensate: 266 BPD	Drill development wells
14	MTJDA	JOC	50%	Petronas-Carigali	50%	341 MMSCFD	Condensate: 6.9 k BPD	Drill development wells Install wellhead platforms
15	L22/43	OP	100%			-	Crude: 43 BPD	Drill development wells

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

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

^{***} DCQ = Daily Contractual Quantity

Project information 2/3

Production phase: Overseas



	Project			1H2018 Avera	age Sales Volume **	2018 Key Activities				
			Share	(as of Q2 2018)		Gas	Oil and Other			
Pro	roduction Phase									
Ove	<u>verseas</u>									
16	Vietnam 9-2	JOC	25%	PetroVietnam SOCO	50% 25%	13 MMSCFD	Crude: 4.1 k BPD	Maintain production operation Perform reservoir management		
17	Yadana		25.5%	TOTAL Chevron MOGE	31.24% 28.26% 15%	794 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%	156 MMSCFD	Condensate: 3.3 k BPD	Drill appraisal / development wells Perform reservoir Management		
19	Vietnam 16-1	JOC	28.5%	PetroVietnam SOCO OPECO	41% 28.5% 2%	6.0 MMSCFD	Crude: 19 k BPD	Drill development wellsMaintain production operation		
20	PTTEP Australasia (PTTEP AA)	OP	90%-100% (varied by permits)			-	Crude: 7.1 k BPD	Maintain production operation Divest Montara field to Jadestone on 15 Jul 18 which expected to complete by end of 2018		
21	Natuna Sea A		11.5%	Premier Oil KUFPEC Petronas Pertamina	28.67% 33.33% 15% 11.5%	242 MMSCFD	Crude: 0.8 k BPD	Maintain production operation		
22	Zawtika (M9 & a part of M11)	OP	80%	Myanma Oil and Gas Enterprise (MOGE)	20%	304 MMSCFD		Maintain production rate Drill development wells Install wellhead platforms		
23	Algeria 433a & 416b (Bir Seba)	JOC	35%	PetroVietnam Sonatrach	40% 25%	-	Crude: 2.6 k BPD (net entitlement)	Maintain production operation		

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

^{**} Sales volume stated at 100% basis except for Algeria 433a & 416b

^{***} DCQ = Daily Contractual Quantity

Project information 3/3

Exploration/Development phase



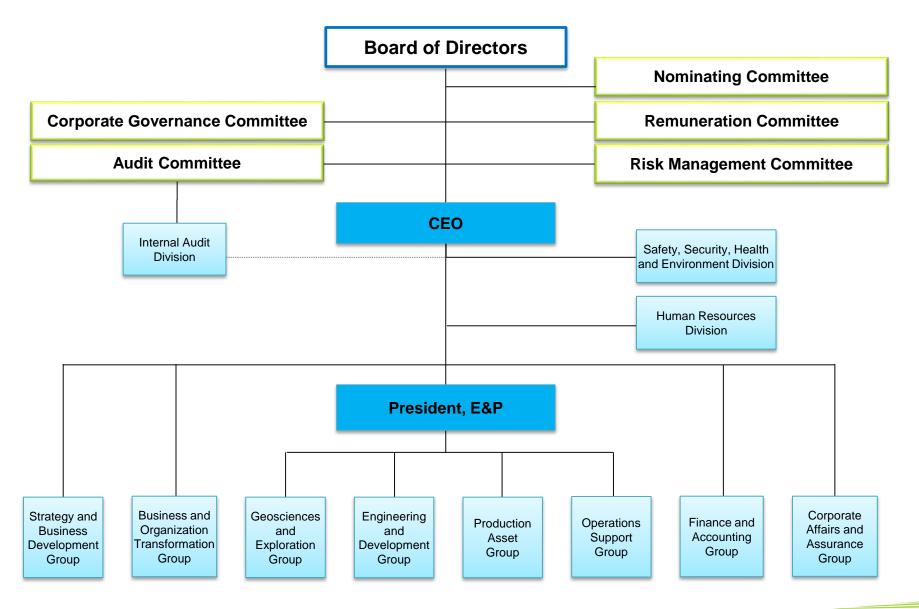
	<u> </u>	<u> </u>			Exploration/ Bevelopment phase								
	Project	Status*	PTTEP's Share	Partners (as of Q2 2018)			2018 Key Activities						
	oloration/Develor	ment Ph	<u>ase</u>										
Tha	ailand and JDA			•									
24	G9/43	OP	100%										
Ov	<u>erseas</u>												
25	Myanmar M3	OP	80%	MOECO	20%	•	Completed Pre-FEED study and expected to propose FDP in Q3/18 Negotiate the commercial framework with the Myanmar government						
26	Mozambique Rovuma Offshore Area 1		8.5%	Anadarko, Mitsui, 2 ENH, ONGC Beas Rovuma, Bharat	26.5%,20% 15%, 10% 10%, 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%	•	Got approval on FDP						
28	Myanmar M11	OP	100%			•	Preparation of exploration drilling plan and seeking partner to manage project's risk						
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 field's potential						
32	Mariana Oil Sands	OP	100%			•	Assess appropriated development approach						
33	Barreirinhas AP1		25%	Shell Brasil Mitsui E&P Brasil	65% 10%	•	Assess petroleum potential						
34	Myanmar MOGE 3	ОР	75%	Palang Sophon MOECO WinPreciousResources	10% 10% 5%	•	prepare exploration drilling welll						
35	Brazil BM-ES-23		20%	Petrobras INPEX	65% 15%	•	Assess petroleum potential						
36	Sarawak SK410B	OP	42.5%	KUFPEC Petronas-Carigali	42.5% 15%	•	Assess petroleum potential and prepare exploration drilling plan						
37	Sarawak SK417	OP	80%	Petronas-Carigali	20%	•	Acquire 3D seismic						
38	Sarawak SK438	OP	80%	Petronas-Carigali	20%	•	Acquire 3D seismic						
39	Mexico block 12 (2.4)		20%	PC Carigali Mexico Ophir Mexico	60% 20%	•	Assess petroleum potential						
40	Mexico block 29 (2.4)		16.67%	Repsol Mexico PC Carigali Mexico Sierra Nevada	30% 28.33% 25%	•	Assess petroleum potential						

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

Organization structure







Supplementary Index: Ratio & Formula



Formula Control of the Control of th
(Operating Exp. – Transportation Cost – Stock Variation – Other expenses 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 of 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