PTT Exploration and Production Public Company Limited

DBAccess Thailand PTT Group Corporate Day

3 June 2016



Dow Jones Sustainability Indices









Company & Financial Highlights

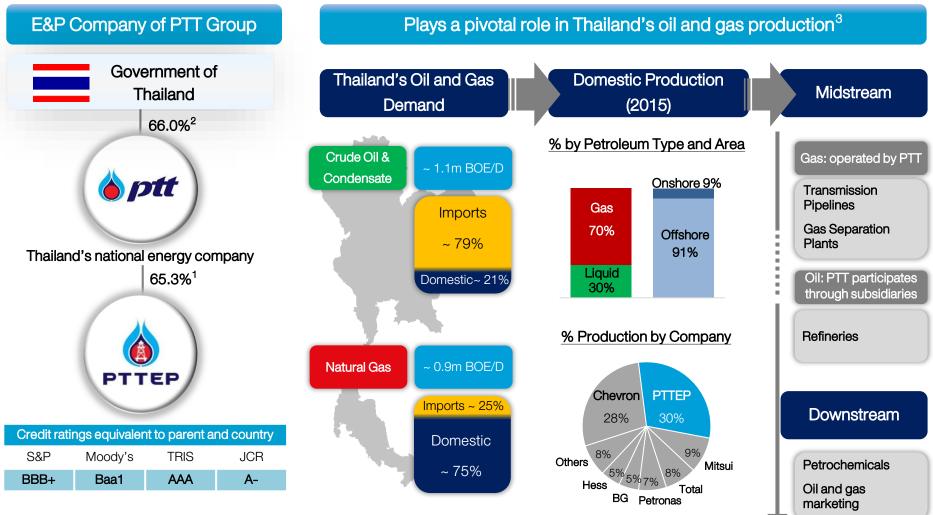
Strategy & Outlook

Highlights

Strategies



PTTEP: the E&P company of PTT Group
 Contributes almost 1/3 of Thailand's petroleum production



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- Notes:
- 1. Ownership as of 12 February 2016

2. 51.1% is directly held by the Government of Thailand (Ministry of Finance), with the remaining 14.9% held by the state-controlled Vayupak Fund I

3. Source: Energy Policy and Planning Office (EPPO) and Department of Mineral Fuels (DMF)

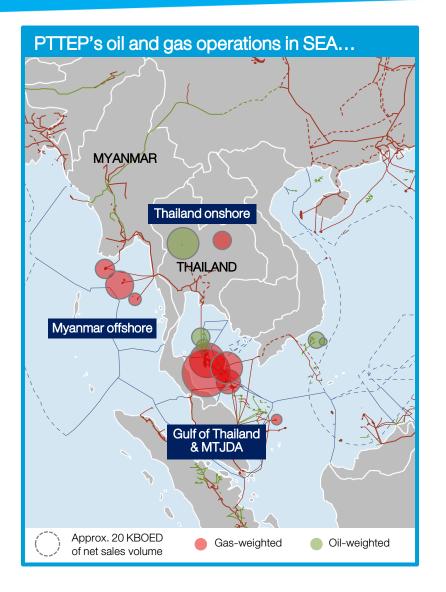
Highlights

Strategies





Supplement



... is uniquely positioned

- The 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 capability into regional investments

...with competitive operating performances in SEA 93 % of PTTEP's total sales volume +99 % Reliability of plants and field facilities* 86 % of PTTEP's sales volume sold to PTT 15 USD/ BOE Average regional cash cost in 2015

* of PTTEP-operated projects in Gulf of Thailand, exclude planned shutdown time All figures are as of year-end 2015

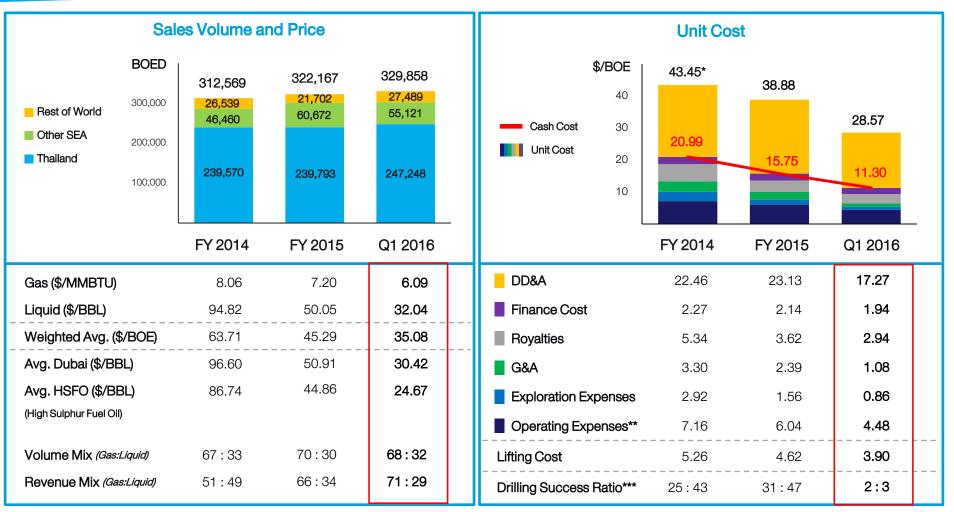
Key Takeaways

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Strategies

PTTEP On track to achieve stable sales volume and improved unit cost performance



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Remark: Sales Volume & Royalties: after reclassification of PSC royalty

If exclude extra expense from Montara's Development well (H5): For 2014, Operating Exp: 6.73 \$/BOE / Unit cost: 43.02 \$/BOE

** Exclude diluent cost for blending bitumen in KKD Oil Sands project

*** Successful wells : Total wells (includes Exploration and Appraisal wells)

Highlights

Strategies

Key Takeaways



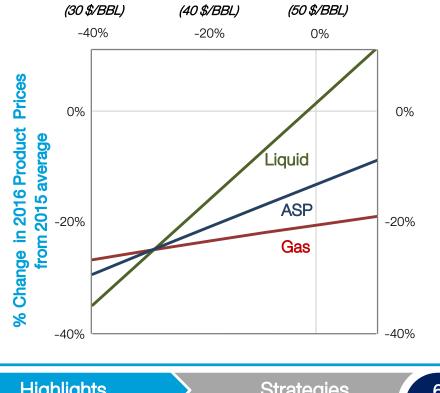
Financial highlights and 2016 liquidity outlook

Robust liquidity maintained through cost management despite continued adjustment in gas price

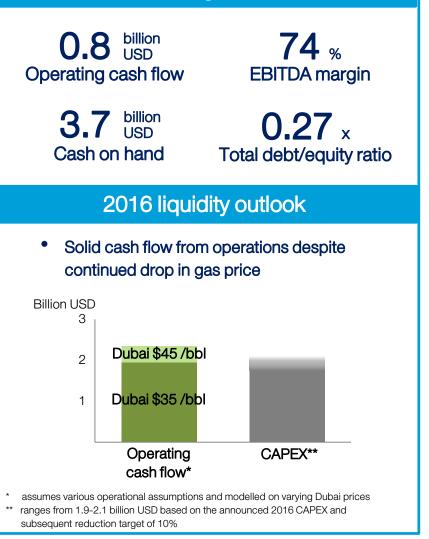
Product price sensitivity to oil price

- Liquid price largely moves in line with crude price
- Gas price impacted by last year's crude price due to lag time in price adjustment

% Change in 2016 Dubai from 2015 average (average 2015 Dubai at \$50/BBL)



Financial strength in Q1 2016



Supplement

Highlights

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Company & Financial Highlights

Strategy & Outlook

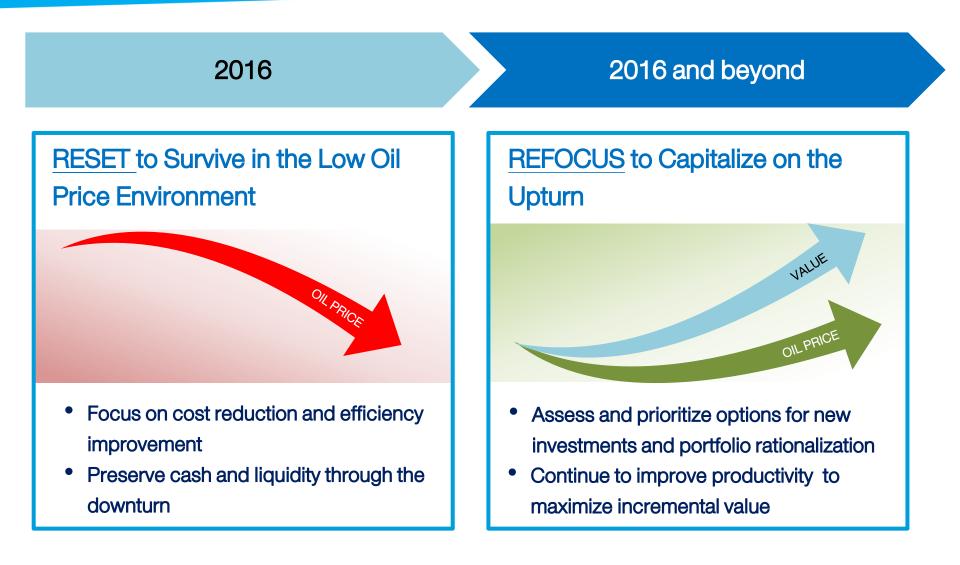
Highlights

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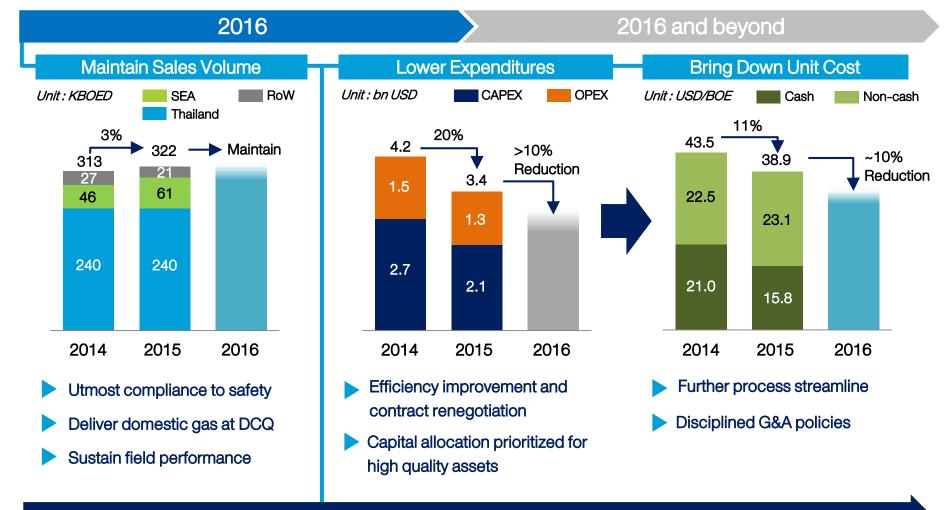




RESET to Survive in the Low Oil Price Environment

PTTEP Primary focus on cost reduction and maintain reliable operations



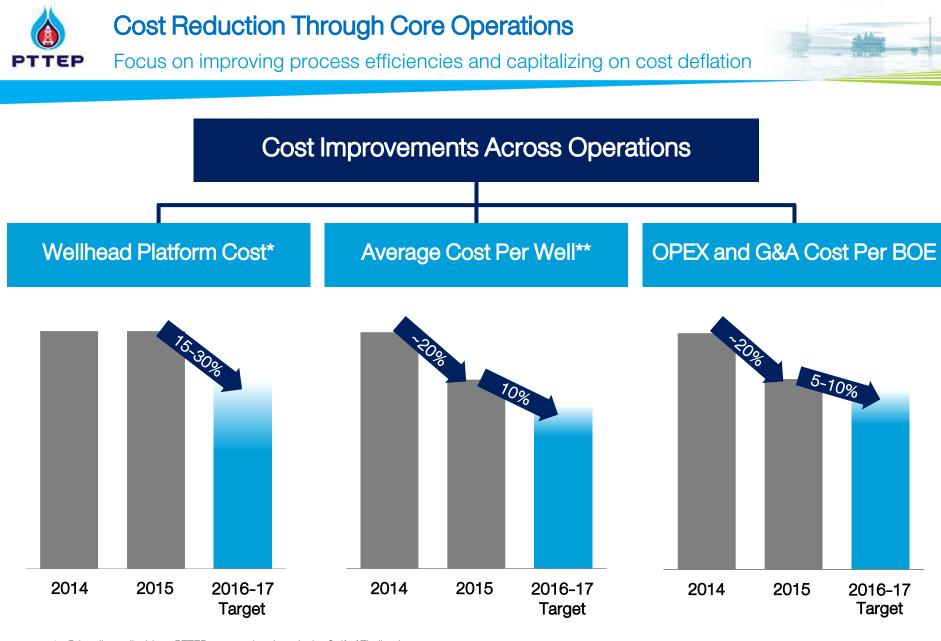


Preserve liquidity and financial flexibility in near-term

Highlights

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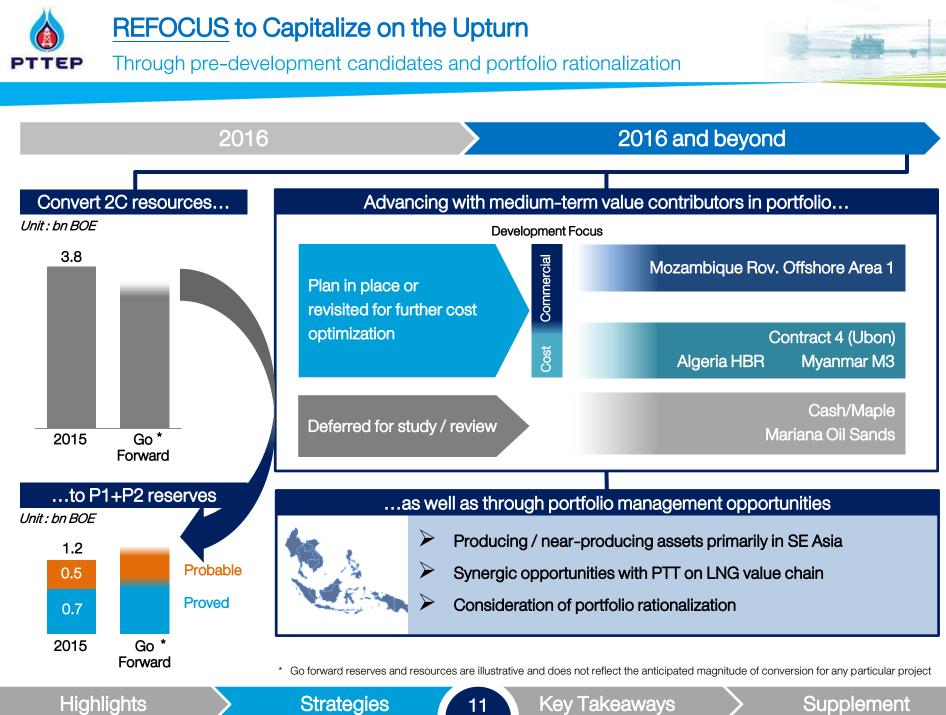
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* Primarily applicable to PTTEP-operated projects in the Gulf of Thailand

** Primarily applicable to development wells in PTTEP-operated projects in Southeast Asia

Highlights

Key Takeaways



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Strategies



Uniquely positioned E&P company

- ✓ +90% of sales volume based in growing SE Asia oil and gas market
- Stable revenues from PTT for +80% of sales volume
- Strong ties with PTT / Thailand through direct / indirect ownership

Competitive operating performance

- ✓ Low cost operations in SE Asia contributory to ~70% EBITDA margin
- ✓ Demonstrated cost discipline with ~20% reduction in OPEX and G&A

Financially strong and flexible

- Well-positioned in downturn with ~3.7 bn USD liquidity available and a low-debt capital structure of 0.27x D/E ratio as of Q1 2016
- A dividend-paying company for over 15 years

Ample growth opportunities

- Sufficient funding capacity available to capitalize on market upturn through organic and inorganic investments
- LNG value chain opportunities to support growing Thailand market



Key Takeaways









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



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PTTEP Better cost performance leads to healthy core earnings despite the continued fall in oil prices

Statement of Income	Q4 15	Q1 16	% QoQ	Q1 15*	% YoY
Total Revenues	1,337	1,093	(18)	1,453	(25)
Sales	1,213	1,053	(13)	1,392	(24)
Others	124	40	(68)	61	(34)
Sales Volume (BOED)	336,363	329,858	(2)	315,851	4
Sales Price (USD/BOE)	39.18	35.08	(10)	48.95	(28)
Total Expenses	1,205	936	(22)	1,189	(21)
Major Expenses:					
Operating Expenses	178	135	(24)	167	(19)
Exploration Expenses	53	26	(51)	13	100
DD&A	612	518	(15)	728	(29)
Income Tax Expense	119	30	(75)	18	67
(Gain)/Loss on FX	(4)	(6)	(50)	34	>(100)
Net Income	132	157	19	264	(41)
Recurring Net Income	13	116	>100	248	(53)
Non-Recurring**	119	41	(66)	16	>100

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Unit: MMUSD

* Restated

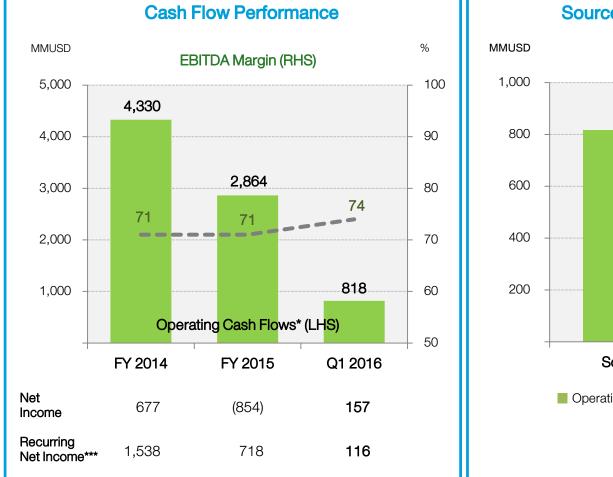
** Includes Gain/(Loss) on FX, Deferred tax from Functional currency, Current Tax from FX Revaluation, Gain/(Loss) from Financial Instruments, and etc.



PTTEP Healthy liquidity to fund CAPEX and debt service



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Source & Use of Funds in Q1 2016 818* 376** Sources Uses Operating Cash Flow CAPEX Interest & Finance Cost Paid

Remark: Sales Volume and sales revenue: after reclassification of PSC royalty

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.

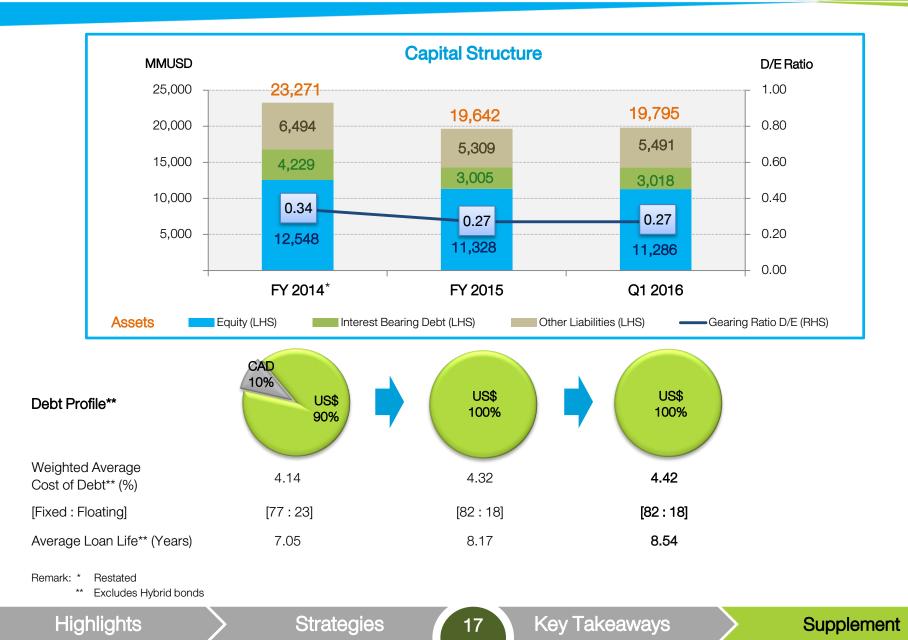
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Strategies

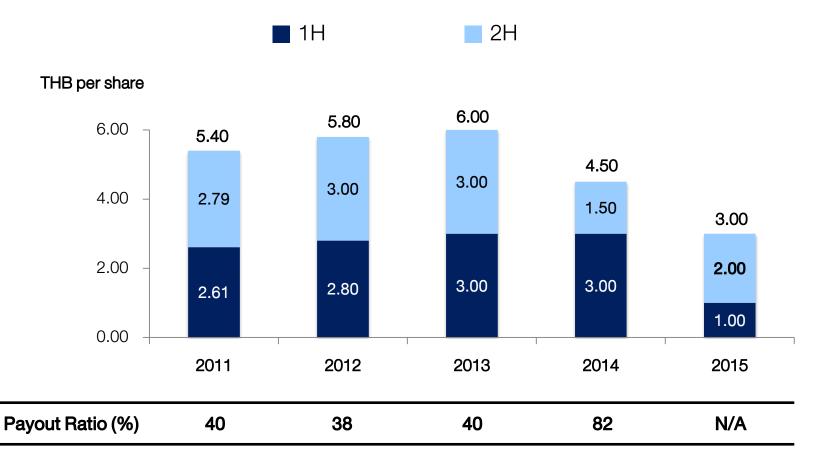


PTTEP Strong balance sheet with low gearing ratio and \$3.7bn cash on hand





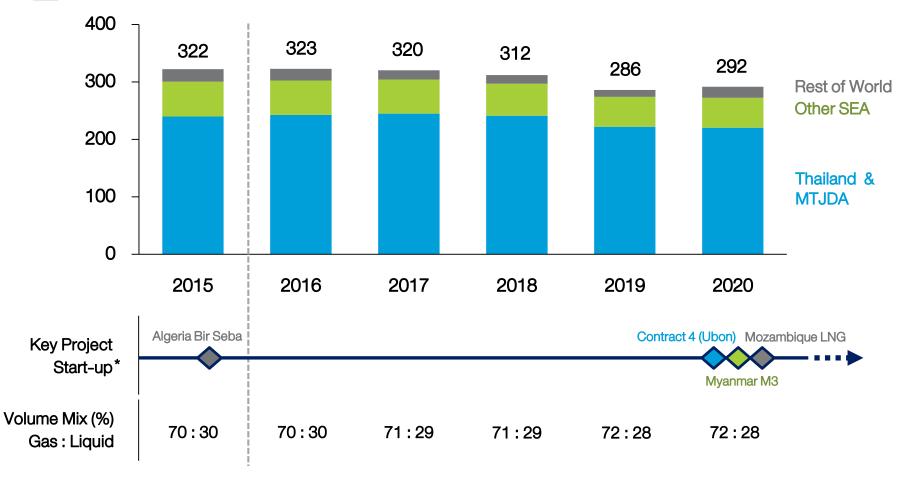
Dividend Payment History (Policy : No Less Than 30% of Net Income)



Sales Volume Guidance Stable volume outlook with new project start-up expected in 2020



Unit : KBOED



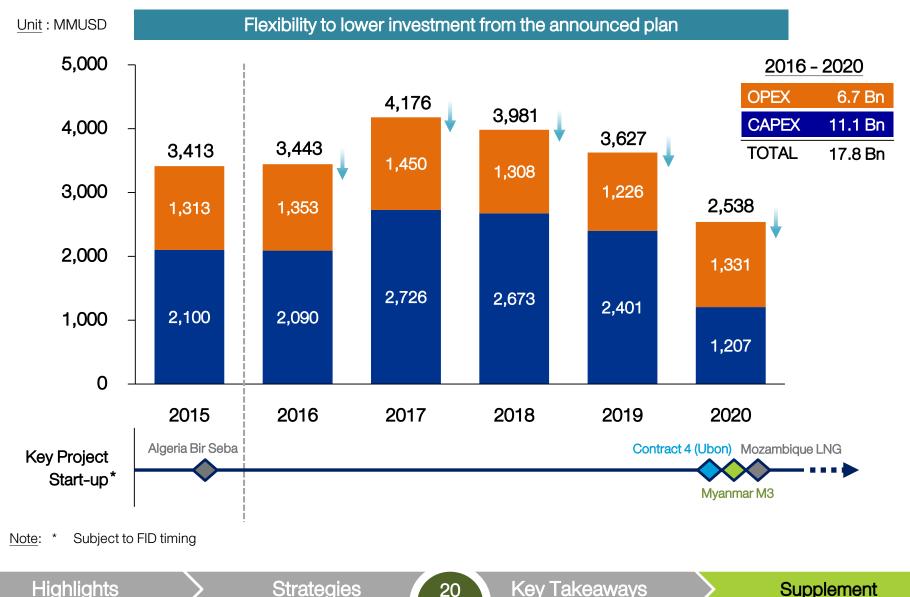
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Note: Sales volume after reclassification of PSC royalty

* Subject to FID timing

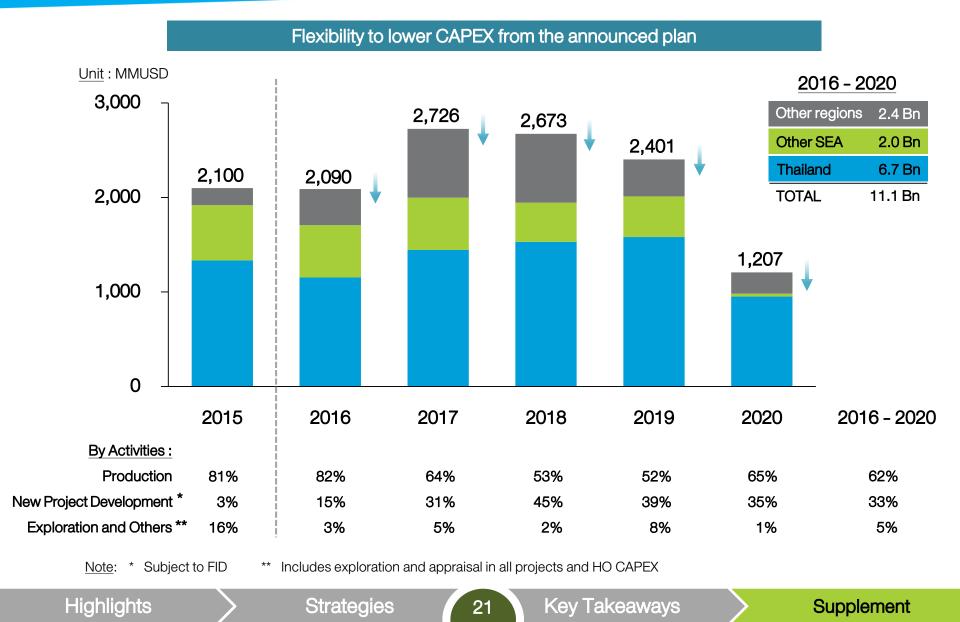
Highlights





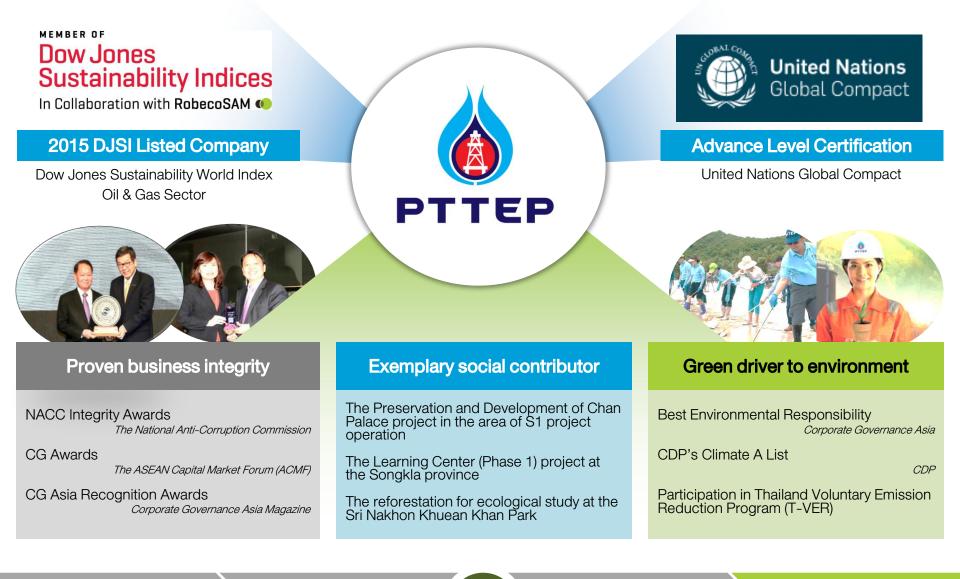
PTTEP Approx. two-thirds of CAPEX to maintain output from producing projects

CAPEX Breakdown





PTTEP Pursue long-term growth with social and environmental wellness



Highlights

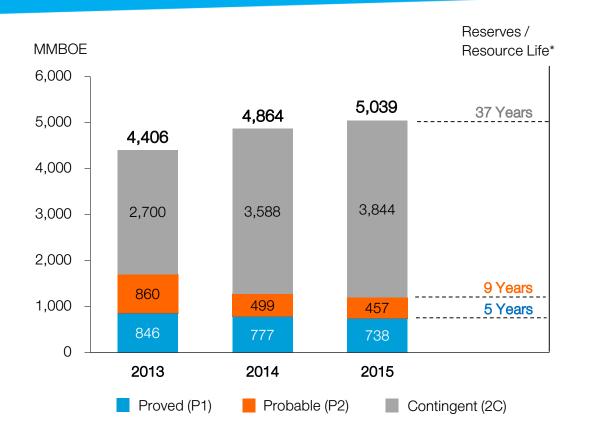
Strategies

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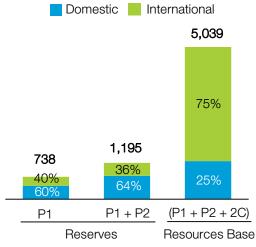
Reserves and Resources

PTTEP Growing resources base to support future reserves addition

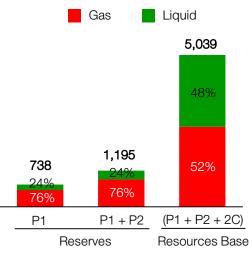




2015 by Geography



2015 by Product Type



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0.82x 0.45x 0.50x

Strategies

5-Year Average Proved Reserves Replacement Ratio (RRR)

2014

* Based on total production of natural gas, condensate, and crude oil (including LPG) of 374 KBOED for the year ended December 31, 2015

2013

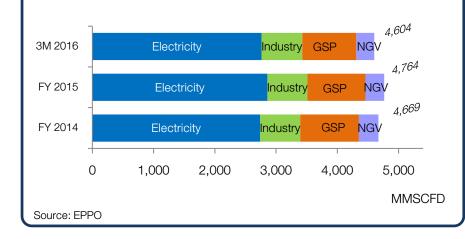
2015

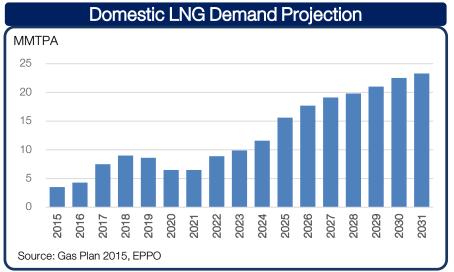
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Thailand Updates TTEP Stable gas demand and projected growth in LNG demand

Thailand's Natural Gas Supply by Source 5.019 3M 2016 Domestic Myanmar LNG 5,114 FY 2015 LNG Domestic Myanmar 5,098 FY 2014 Myanmar LNG Domestic 0 1,000 2,000 3.000 4,000 5.000 **MMSCFD** Source: EPPO

Thailand's Natural Gas Consumption by Sector





Upstream Energy Reform

- According to National Energy Policy Office meeting in May 2015, contractual management plan for expiring concessions to be concluded within one year
- Bidding round process could be resumed after amendments to Petroleum Act is finalized

Highlights

Strategies

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Expiring

Concessions

21st Bidding

Round

Bongkot

Contract

1-3, 5

กระทรวงพลังงาน

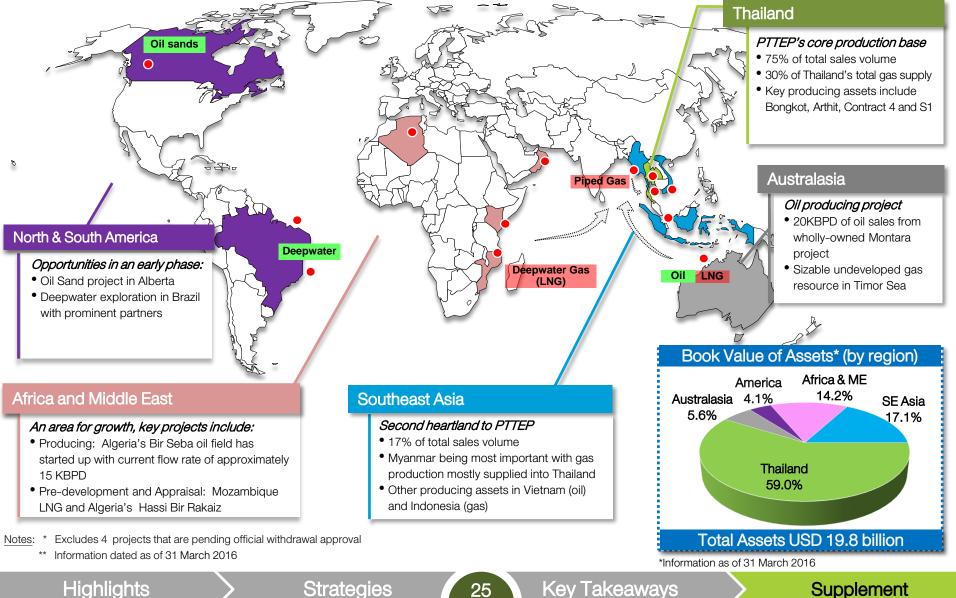
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PETROLEUM BIDDING BOUND

Key Takeaways

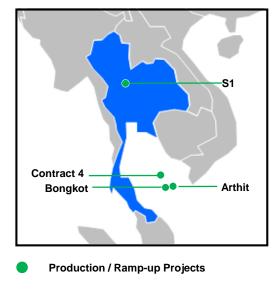












Bongkot (44.4% interest)

- Bongkot's natural gas sales volume of 901 MMSCFD (Q1 2016) represents approximately 18% of Thailand's natural gas supply
- Average condensate sales volume was 31 KBPD in Q1 2016

S1 (100% interest)

- S1 is the largest onshore crude oil production field in Thailand
- Average crude oil sales volume was 28 KBPD in Q1 2016

Arthit (80% interest)

 Average sales volume in Q1 2016 was 234 MMSCFD of natural gas and 9.2 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 333 MMSCFD for natural gas and 15 KBPD for condensate in Q1 2016

Highlights

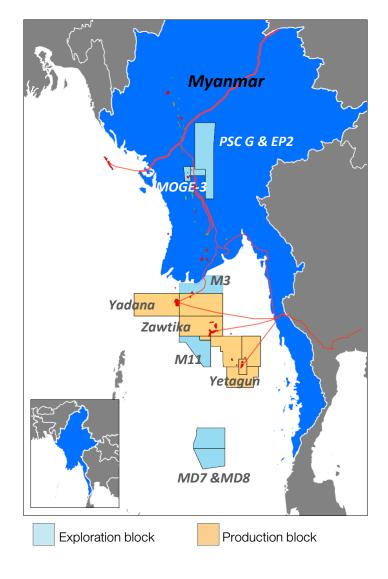
Strategies

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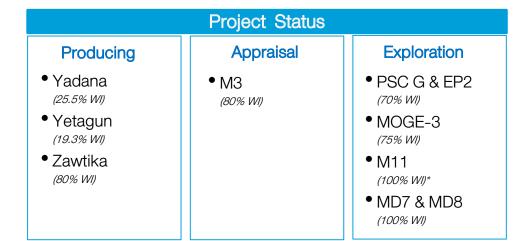




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- Participating in three producing gas fields which supply gas to both Thailand and Myanmar: Yadana, Yetagun, Zawtika
- Operate Zawtika project, brought online in August 2014. Deliver gas supply of 276 MMSCFD in Q1 2016.
- Significant exploration acreage both onshore and offshore in the Moattama Basin



Note: WI – working interest

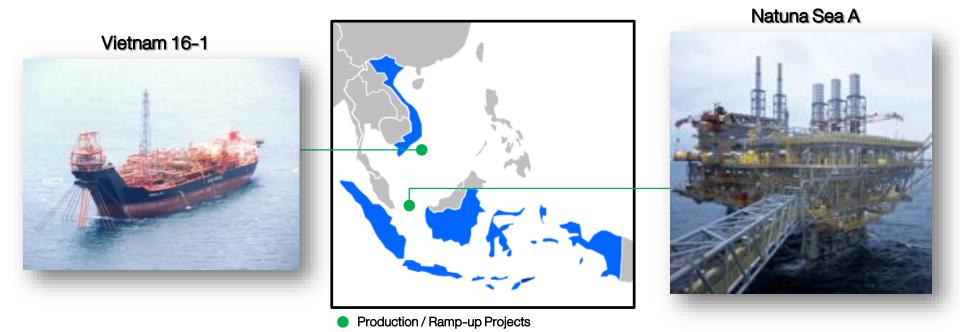
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* New participating interest subject to government approval

Highlights

Strategies





Vietnam 16-1 (28.5% interest)

- Average crude oil sales volume of 27 KBPD in Q1 2016
- 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 218 MMSCFD, and average sales volume of crude oil was 2.2 KBPD in Q1 2016

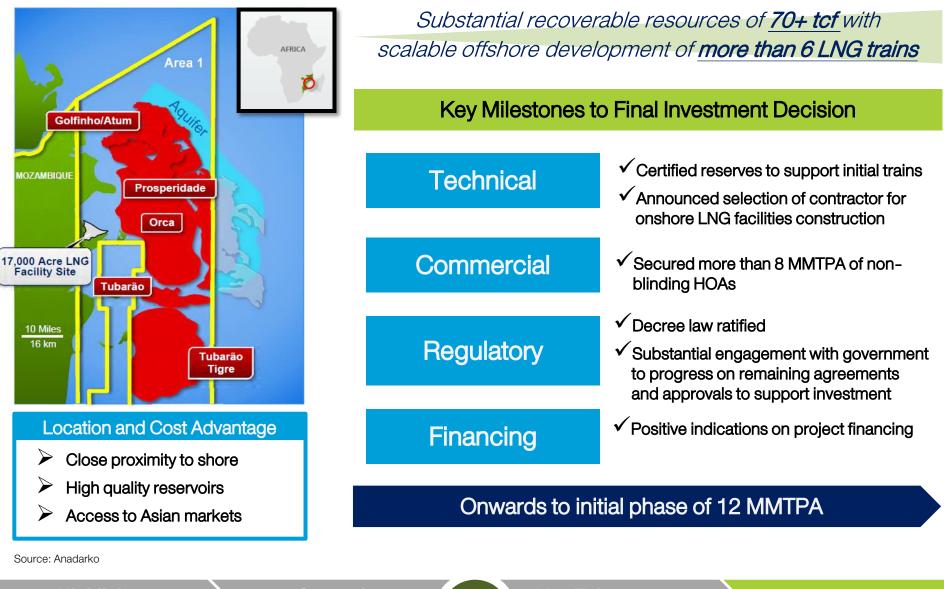
Source : Premier Oil

Highlights

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East Africa : Mozambique

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



Highlights

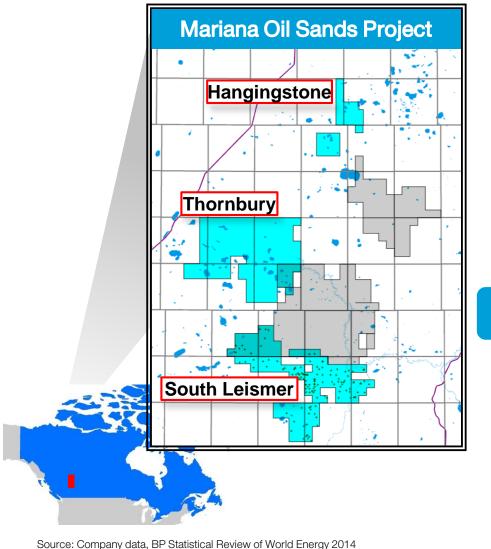
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Strategies

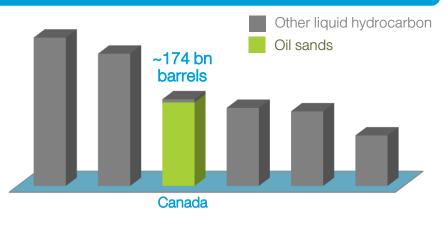


Highlights

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

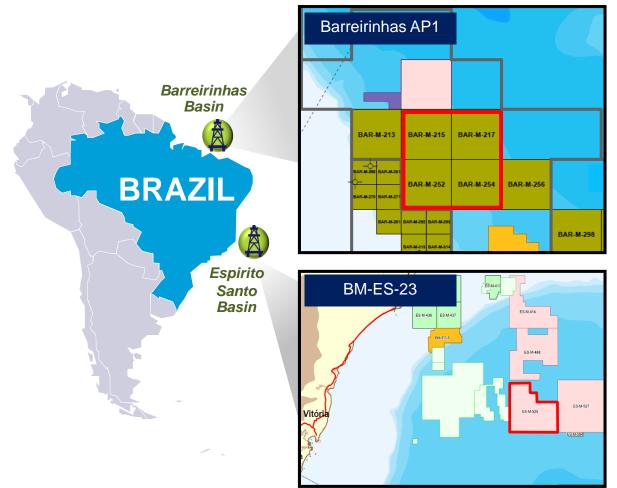


Key Takeaways

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PTTEP Entry into high potential petroleum province at exploration phase

America : Brazil Deepwater



- Farm-in 25% from BG Group in 2014
- Operated by BG Group (75% interest)
- Four offshore exploration blocks: BAR-M-215, BAR-M-217, BAR-M-252 and BAR-M-254
- Currently in the process of conducting 3D seismic survey

- 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)

Strategies

Key Takeaways







Supplement

	Project	Status*	PTTEP's	Partne	rs	Q1 2016 Ave	rage Sales Volume **	2016 Key Activities
			Share	(as of Q1 2016)		Gas	Oil and Other	
Pro	duction Phase							
Tha	ailand and JDA							
1	Arthit	OP	80%	Chevron MOECO	16% 4%	234 MMSCFD	Condensate: 9.2 k BPD	 Ensure gas deliverability level at DCQ**** Drill development wells Install wellhead platforms
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%	129 MMSCFD	Crude: 30 k BPD	 Drill development wells Perform waterflood activities
4	Bongkot	OP	44.4445%	TOTAL British Gas	33.3333% 22.2222%	901 MMSCFD	Condensate: 31 k BPD	 Ensure gas deliverability level at DCQ**** Drill Exploration / Appraisal / Development wells Install wellhead platforms
5	Contract 3 (Formerly Unocal III)		5%	Chevron MOECO	71.25% 23.75%	558 MMSCFD	Crude: 25 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%	333 MMSCFD	Condensate: 15 k BPD	 Ensure gas deliverability level at DCQ**** Drill exploration / appraisal / development wells Install wellhead platforms Review development plan of Ubon field
7	E5		20%	ExxonMobil	80%	12 MMSCFD	-	
8	G4/43		21.375%	Chevron MOECO PSTL	51% 21.25% 6.375%	1.2 MMSCFD	Crude: 7.2 k BPD	 Drill development wells Perform waterflood activities
9	G4/48		5%	Chevron MOECO	71.25% 23.75%	5.2 MMSCFD	Crude: 479 BPD	
10	L53/43 & L54/43	OP	100%			-	Crude: 137 BPD	Drill exploration and development wells
11	PTTEP1	OP	100%			-	Crude: 397 BPD	 Drill development wells Perform waterflood activities
12		OP	100%			23 MMSCFD	Crude: 28 k BPD	 Drill exploration / appraisal / development wells Enhance oil recovery program includes waterflooding and artificial lift
13	Sinphuhorm	OP	55%	Apico ExxonMobil	35% 10%	124 MMSCFD	Condensate: 482 BPD	Drill development wells
14	MTJDA	JOC	50%	Petronas-Carigali	50%	314 MMSCFD	Condensate: 6.3 k BPD	 Drill development wells Install wellhead platforms
15	L22/43	OP	100%			-	Crude: 82 BPD	Drill exploration / development wells

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* 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

Highlights





	Project	Status*	PTTEP's	Partne	rs	Q1 2016 Average Sales Volume **		2016 Key Activities
			Share	(as of Q1 2016)		Gas	Oil and Other	
Pro	duction Phase							
Ov	erseas							
16	Oman 44	OP	100%			23 MMSCFD	Condensate: 1.3 k BPD	Maintain production operation
17	Vietnam 9-2	JOC	25%	PetroVietnam SOCO	50% 25%	12 MMSCFD	Crude: 2.7 k BPD	Maintain production operation Perform reservoir management
18	Yadana		25.5%	TOTAL Chevron MOGE	31.24% 28.26% 15%	707 MMSCFD	-	 Drill exploration / development wells Acquire 2D seismic reprocessing Perform reservoir management
19	Yetagun		19.3178%	Petronas-Carigali MOGE Nippon Oil PC Myanmar (Hong Kong)	30.00140% 20.4541% 19.3178% 10.90878%	233 MMSCFD	Condensate: 4 k BPD	 Drill development wells Perform reservoir Management
20	Vietnam 16-1	JOC	28.5%	PetroVietnam SOCO OPECO	41% 28.5% 2%	15 MMSCFD	Crude: 27 k BPD	 Drill development wells Perform reservoir management Review feasibility for water handling facility upgrade
21	PTTEP Australasia (PTTEP AA)	OP	50%-100% (varied by permits)			-	Crude: 20 k BPD	Maintain production operation Assess resource potential of exploration permits
22	Natuna Sea A		11.5%	Premier Oil KUFPEC Petronas Pertamina	28.67% 33.33% 15% 11.5%	218 MMSCFD	Crude: 2.2 k BPD	Maintain production operation
23	Zawtika (M9 & a part of M11)	OP	80%	Myanma Oil and Gas Enterprise (MOGE)	20%	276 MMSCFD	-	Maintain production rate Drill development wells Install wellhead platforms
24	Algeria 433a & 416b (Bir Seba)	JOC	35%	PetroVietnam Sonatrach	40% 25%	-	Crude: 2 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 *

**







	Project	Status*	PTTEP's Share	Partners (as of Q1 2016)			2016 Key Activities
Exp	oloration Phase						
Tha	ailand and JDA						
25	G9/43	OP	100%				
Ov	erseas						
26	Myanmar M3	OP	80%	MOECO	20%	•	Access development options and commercial potential
27	Mozambique Rovuma Offshore Area 1		8.5%	Anadarko, Mitsui, ENH, Bharat Petroleum, BREML, OVL	26.5%,20% 15%,10%, 10%,10%	•	Preparatory work for Final Investment Decision (FID) including LNG marketing and finalization of remaining commercial contracts
28	Algeria Hassi Bir Rekaiz	OP	24.5%	CNOOC Sonatrach	24.5% 51%	•	Drill Appraisal wells
29	Myanmar M11	OP	100%**				
30	Vietnam B & 48/95		8.5%	PVN MOECO	65.88% 25.62%	•	Negotiate a GSA with the Vietnamese government
31	Vietnam 52/97		7%	PVN MOECO	73.4% 19.6%	•	Negotiate a GSA with the Vietnamese government
32	Myanmar PSC G and EP 2	OP	70%	WinPreciousResources MOECO Palang Sophon Offshore	10% 10% 10%	•	Conduct G&G studies
33	Kenya L11A, L11B, L12		10%	Anadarko Total ENI	50% 30% 10%	•	Conduct G&G studies

Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship New participating interest subject to government approval *

**

Highlights





	Project	Status*	PTTEP's Share	Partners (as of 2015)	2016 Key Activities				
<u>Exp</u>	Exploration Phase								
<u>Ov</u>	erseas (Cont'd)								
34	Myanmar MD 7 and MD 8	OP	100%						
35	Mariana Oil Sands	OP	100%		Assess development approach and cost reduction opportunity				
36	Barreirinhas AP1		25%	BG Brasil 75%	Acquire 3D seismic				
37	Myanmar MOGE 3	OP	75%	Palang Sophon Offshore10%MOECO10%WinPreciousResources5%					
38	Brazil BM-ES-23		20%	Petrobras 65% INPEX 15%					

Remarks: 38 projects exclude 5 projects that are pending official withdrawal approval

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

Highlights

Strategies



PTTEP Ensuring transparency, integrity and good corporate governance

Organization Structure







Ratio	Formula
Lifting Cost (\$/BOE)	(Operating Exp.) / Production Volume
Cash Cost (\$/BOE)	(Operating Exp. + Exploration Exp. + G&A + Royalties + Finance Cost) / Sales Volume
Unit Cost (\$/BOE)	(Operating Exp. + Exploration Exp. + G&A + Royalties + Finance Cost + DD&A) / Sales Volume
Reserves Replacement Ratio	5-Yr Additional Proved Reserves / 5-Yr Production Volume
Reserves Life Index (Year)	Proved Reserves / Production Volume
Success Ratio	Number of wells with petroleum discovery / Total number of exploration and appraisal wells
Sales Revenue	Sales + Revenue from pipeline transportation
EBITDA	(Sales + Revenue from pipeline transportation) - (Operating expenses + Exploration expenses + Administrative expenses + Petroleum royalties and remuneration + Management's remuneration)
EBITDA Margin	EBITDA / Sales Revenue
Return on Equity	Trailing-12-month net income / Average shareholders' equity between the beginning and the end of the 12-month period
Return on Capital Employed	(Trailing-12-month net income + Trailing-12-month Interest Expenses & Amortise Bond Issuing Cost) / (Average shareholders' equity and average total debt between the beginning and the end of the 12-month period)
Simple Effective Tax Rate	Income tax expenses / Income before income taxes
Total debt	Short-term loans from financial institution + Current portion of long-term debts + Bonds + Long-term loans from financial institution
Net debt	Total debt – Liquidity
Debt to Equity	Total debt / Shareholders' equity
Net Debt to Equity	Net debt / Shareholders' equity
Total Debt to Capital	Total debt / (Total debt + Shareholders' equity)
Total Debt to EBITDA	Total debt / Trailing-12-month EBITDA
Net Debt to EBITDA	Net debt / Trailing-12-month EBITDA
EBITDA Interest Coverage Ratio	Trailing-12-month EBITDA / Trailing-12-month Interest Expenses & Amortize Bond Issuing Cost

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