PTT Exploration and Production Public Company Limited

Q2 2016 Opportunity Day Bangkok 23 August 2016



Dow Jones Sustainability Indices









Safety Performance

Industry Highlights

Financial Results

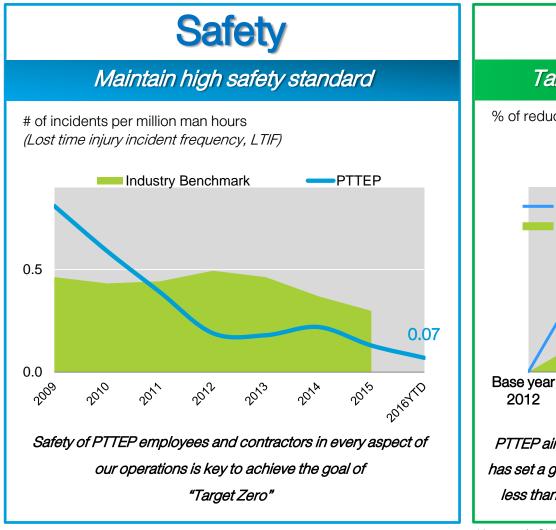
Outlook

Safety





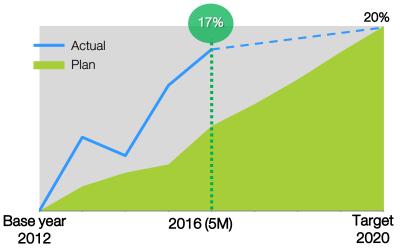




Environment

Target 20% GHG reduction by 2020

% of reduction in GHG emission per BOE produced, comparing to 2012 base year figure



PTTEP aims to become a Low Carbon Footprint organization, and has set a goal to reduce its greenhouse gas (GHG) emissions by not less than 20% in the year 2020 versus its 2012 base year figure.

* Increase in GHG emission per barrel produced in 2014 was due to slight decrease in production from domestic assets.

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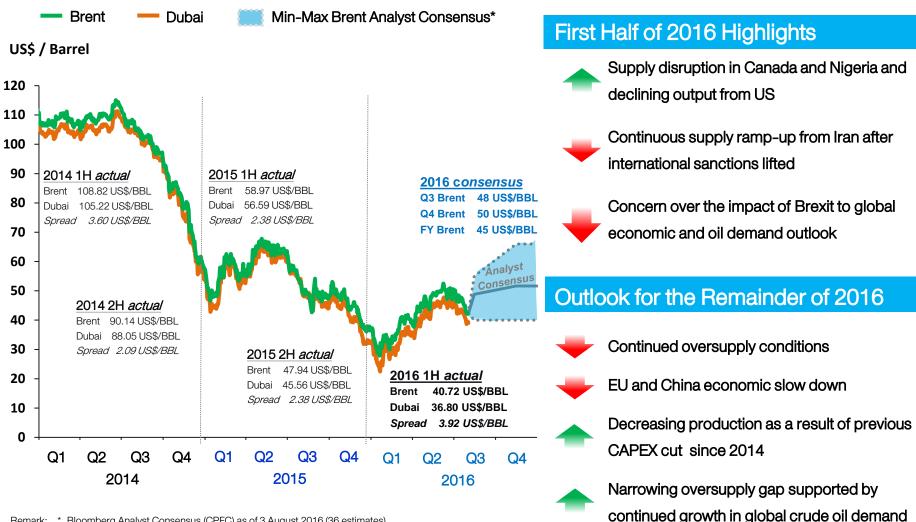
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Oil Prices Oil prices continue to be volatile, expected range of 40–50 \$/BBL in 2H16



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Remark: * Bloomberg Analyst Consensus (CPFC) as of 3 August 2016 (36 estimates)

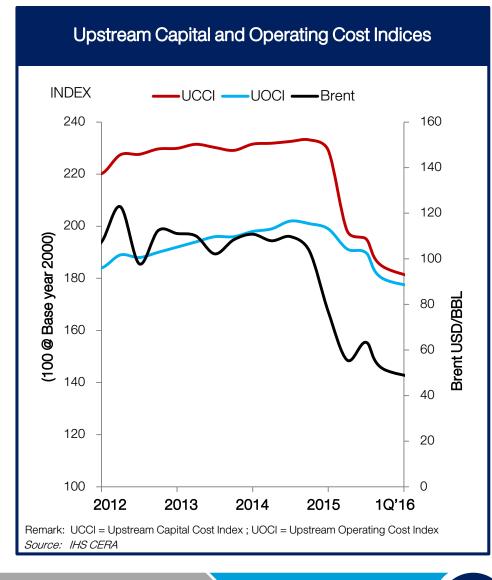
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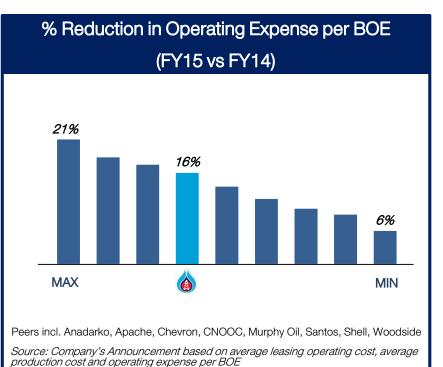
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Industry's cost reduction

TTEP Capturing market deflation and efficiency improvement continue to be the key focus





Upstream cost deflation continues albeit recently

at a slower rate

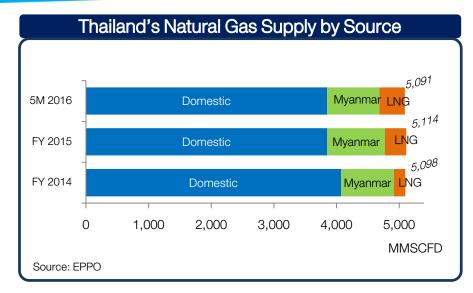
 E&P companies has capitalized on this, together with efficiency improvement, at varying degrees as partly reflected in unit operating expense

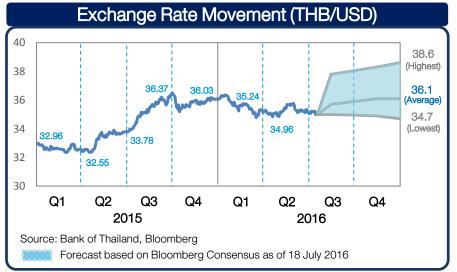
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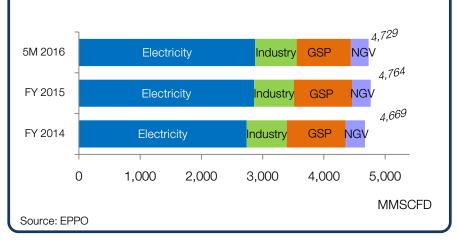
Thailand Updates

PTTEP Stable gas demand whilst Thai Baht appreciated





Thailand's Natural Gas Consumption by Sector



Thailand's Gas Market:

 In meeting stable domestic demand, saw a slight increase in LNG imports and Myanmar volumes decline due to planned shutdown in 1H16

Exchange Rate:

 Continue to be volatile; risk to weakening THB if FED increases interest rate in 2H16

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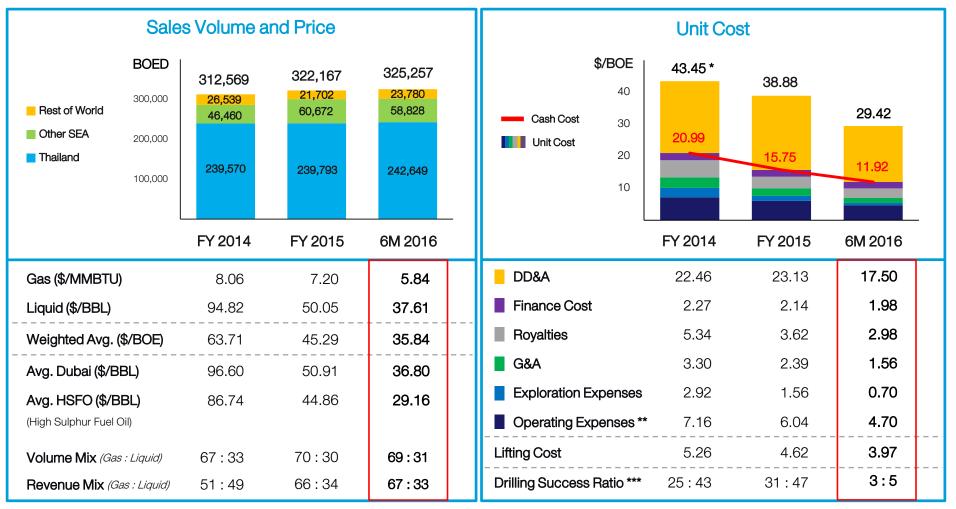
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Sales volume & unit cost

PTTEP On track for 2016 sales volume target; while cost improvement exceeds target



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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)

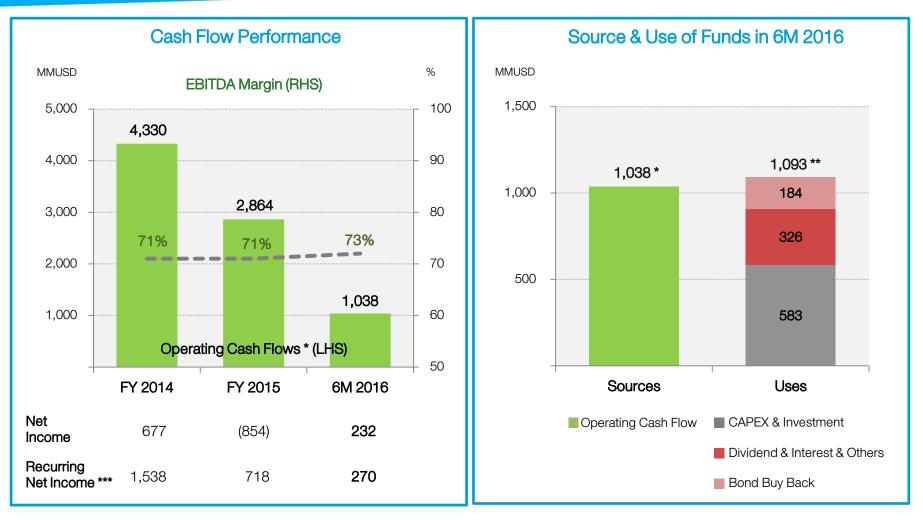
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Cash flow performance

PTTEP Healthy EBITDA margin with robust liquidity to fund 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.

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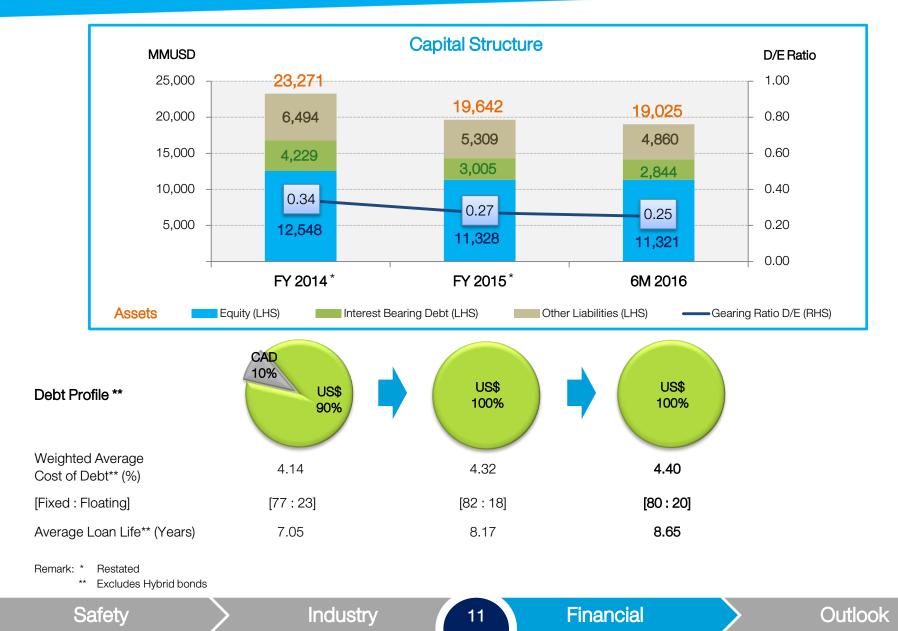
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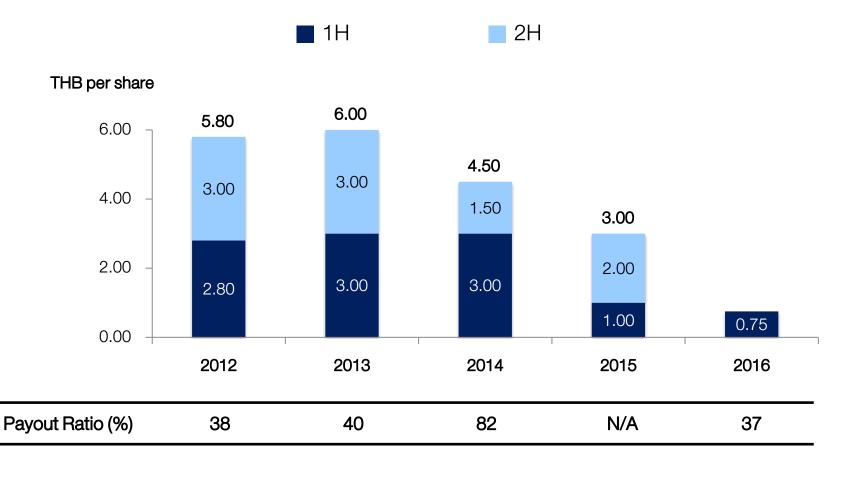
EP Solid balance sheet with \$3.2bn cash on hand for future growth







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



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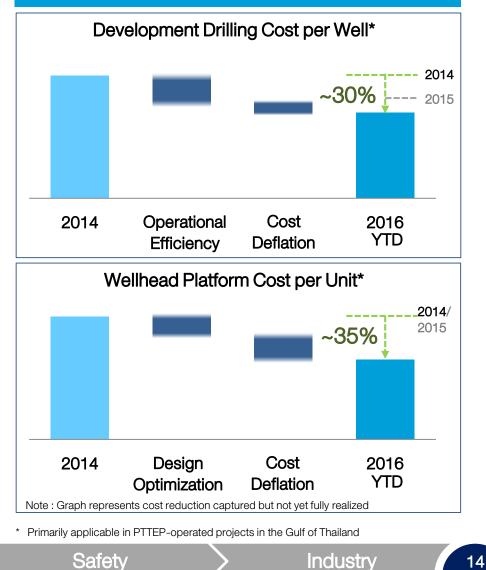
Cost reduction progress

PTTEP Continuous improvement on both CAPEX and OPEX efficiency

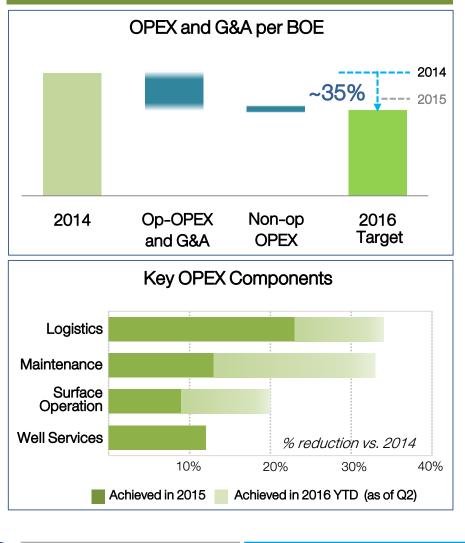


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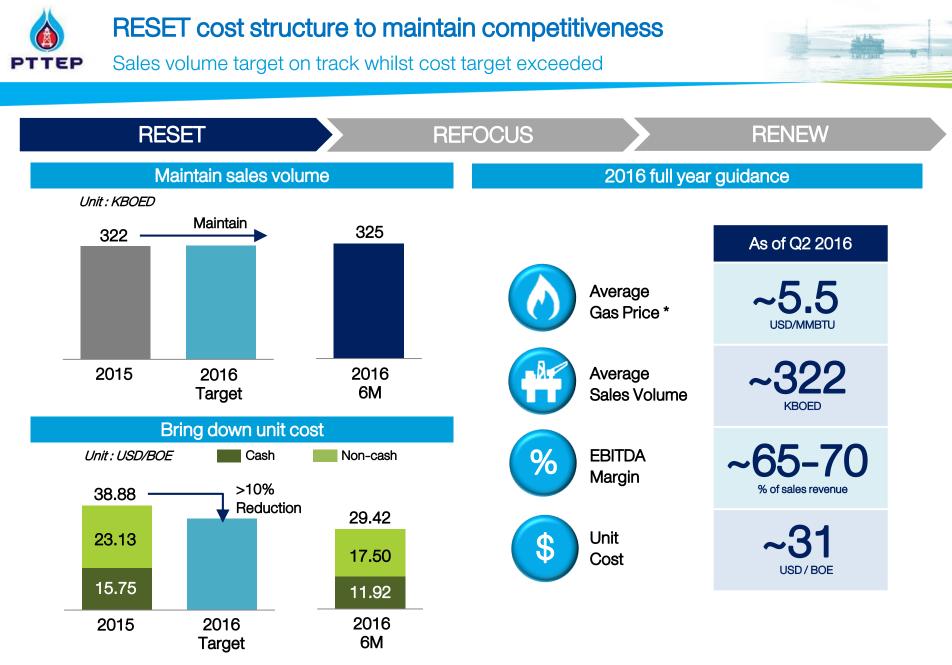
Notable improvement in key CAPEX components



With increased efficiency in OPEX spending



Financial



* Based on the average Dubai crude oil price of 39 USD/BBL in 2016 after taking into account the 1H 2016 average price of 36.80 USD/BBL

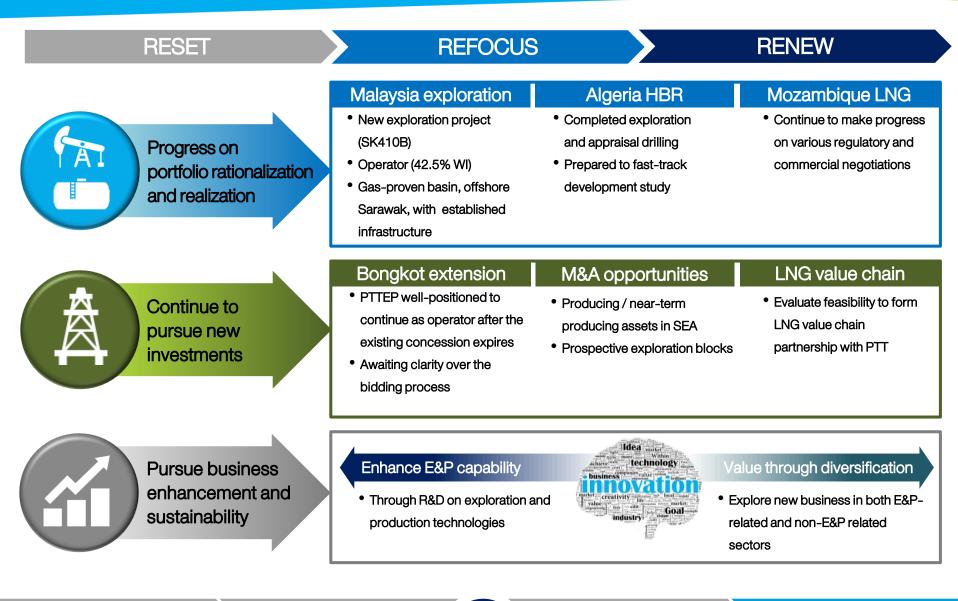
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REFOCUS and RENEW

PTTEP Advancing for long-term growth



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Ratios and formula	28

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PTTEP Healthy core earnings from efficient cost reduction and improved average product price

Unit : MMUSD

Statement of Income	Q1 16	Q2 16	% QoQ	Q2 15 *	% YoY	6M 16	6M 15 *	% YTD
Total Revenues	1,093	1,110	2	1,448	(23)	2,203	2,895	(24)
Sales	1,053	1,069	2	1,398	(24)	2,122	2,790	(24)
Others	40	41	3	50	(18)	81	105	(23)
Sales Volume (BOED)	329,858	320,657	(3)	315,450	2	325,257	315,649	3
Sales Price (USD/BOE)	35.08	36.62	4	48.71	(25)	35.84	48.83	(27)
Total Expenses	936	1,035	11	1,413	(27)	1,971	2,596	(24)
Major Expenses:								
Operating Expenses	135	144	7	182	(21)	279	349	(20)
Exploration Expenses	26	15	(42)	38	(61)	41	52	(21)
DD&A	518	518	-	726	(29)	1,036	1,454	(29)
Income Tax Expense	30	55	83	137	(60)	85	155	(45)
(Gain)/Loss on FX	(6)	(7)	(17)	19	>(100)	(13)	53	>(100)
Net Income	157	75	(52)	35	>100	232	299	(22)
Recurring Net Income	116	154	33	194	(21)	270	442	(39)
Non-Recurring **	41	(79)	>(100)	(159)	50	(38)	(143)	73

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* Restated

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

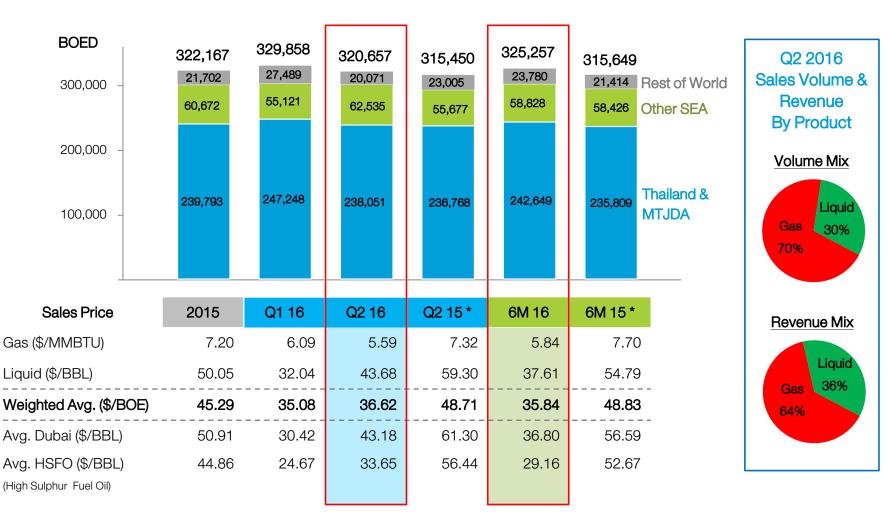
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PTTEP Sales Volume & Average Selling Price

PTTEP On track to achieve 2016 sales volume target





Sales Volume

Note: * Restated

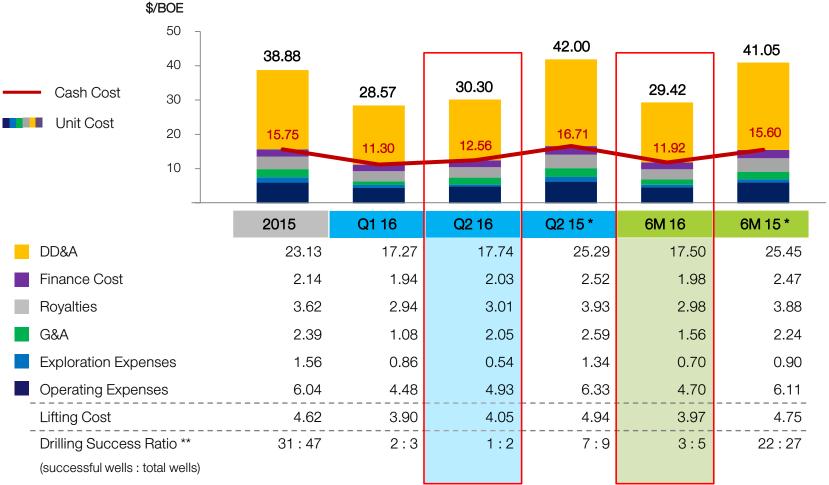
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Operating Performance

PTTEP Slight increase in unit cost QoQ due to higher maintenance activities



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Unit Cost

Note: * Restated

** Exploration and Appraisal Wells

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

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	Q1 16	Q2 16	Q2 15 *	6M 16	6M 15 *
Sales Revenue ** (MMUSD)	1,070	1,085	1,429	2,155	2,856
EBITDA (MMUSD)	789	778	1,022	1,567	2,106
Net Income (MMUSD)	157	75	35	232	299
Recurring Net Income (MMUSD)	116	154	194	270	442
Earning Per Share (USD)	0.04	0.01	0.005	0.05	0.07
Key Financial Ratios					
EBITDA Margin (%)	74	72	72	73	74
Return on Equity (%) (LTM)	(8)	(8)	0.3	(8)	0.3
Return on Capital Employed (%) (LTM)	(5)	(5)	1	(5)	1
Return on Equity (%) (LTM, Recurring Net Income)	5	5	8	5	8
Return on Capital Employed (%) (LTM, Recurring Net Income)	5	4	7	4	7

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Note: * Restated

** Sales and revenue from pipeline transportation

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

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Financial Performance : Balance Sheet

PTTEP Solid balance sheet with \$3.2Bn cash on hand for future growth



	Q4 15	Q1 16	Q2 16
Total Assets (MMUSD)	19,642	19,795	19,025
- Cash & cash equivalents ** (MMUSD)	3,260	3,702	3,205
Total Liabilities (MMUSD)	8,314	8,509	7,704
- Interest bearing debt (MMUSD)	3,005	3,018	2,844
Equity (MMUSD)	11,328	11,286	11,321
Key Financial Ratios			
Total Debt to Equity (X)	0.27	0.27	0.25
Net Debt ** to Equity (X)	(0.02)	(0.06)	(0.03)
Total Debt to Capital (X)	0.21	0.21	0.20
Total Debt to EBITDA (X)	0.78	0.85	0.86
Net Debt ** to EBITDA (X)	(0.07)	(0.19)	(0.11)
EBITDA Interest Coverage (X)	24	24	24

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Credit Ratings :	BBB+ (S&P), Baa1 (Moody's), AAA (TRIS)
Weighted Average Cost of Debt ** :	4.40%
Average Loan Life ** :	8.65 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

** Excludes hybrid bonds

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

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	Project	Status*	PTTEP's	Partne	rs	6M 2016 Average Sales Volume **		2016 Key Activities
			Share	(as of Q2 2	2016)	Gas	Oil and Other	
Pro	duction Phase							
Tha	ailand and JDA							
1	Arthit	OP	80%	Chevron MOECO	16% 4%	227 MMSCFD	Condensate: 10 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%	126 MMSCFD	Crude: 27 k BPD	 Drill development wells Perform waterflood activities
4	Bongkot	OP	44.4445%	TOTAL British Gas	33.3333% 22.2222%	885 MMSCFD	Condensate: 27 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%	577 MMSCFD	Crude: 22 k BPD Condensate: 23 k BPD	 Drill exploration / appraisal / development wells Install wellhead platforms Perform waterflood activities
6	Contract 4 (Formerly Pailin)		60%	Chevron MOECO	35% 5%	321 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%	1.5 MMSCFD	Crude: 6.7 k BPD	 Drill development wells Perform waterflood activities
9	G4/48		5%	Chevron MOECO	71.25% 23.75%	7.9 MMSCFD	Crude: 0.9 k BPD	
10	L53/43 & L54/43	OP	100%			-	Crude: 537 BPD	Drill exploration and development wells
11	PTTEP1	OP	100%			-	Crude: 409 BPD	 Drill development wells Perform waterflood activities
12	S1	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%	126 MMSCFD	Condensate: 471 BPD	Drill development wells
14	MTJDA	JOC	50%	Petronas-Carigali	50%	305 MMSCFD	Condensate: 7.8 k BPD	Drill development wells Install wellhead platforms
15	L22/43	OP	100%			-	Crude: 82 BPD	Drill exploration / 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

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	Project	Status*	PTTEP's Share	Partners (as of Q2 2016)		6M 2016 Average Sales Volume ** Gas Oil and Other		2016 Key Activities
Pro	duction Phase		Silare	(as 01 Q2 2	2010)	Gas	On and Other	
	erseas							
16	Oman 44	OP	100%			20 MMSCFD	Condensate: 1.3 k BPD	Maintain production operation
17	Vietnam 9-2	JOC	25%	PetroVietnam SOCO	50% 25%	12 MMSCFD	Crude: 4.6 k BPD	Maintain production operation Perform reservoir management
18	Yadana		25.5%	TOTAL Chevron MOGE	31.24% 28.26% 15%	741 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%	232 MMSCFD	Condensate: 6.0 k BPD	 Drill development wells Perform reservoir Management
20	Vietnam 16-1	JOC	28.5%	PetroVietnam SOCO OPECO	41% 28.5% 2%	13 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: 17 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%	216 MMSCFD	Crude: 1.1 k BPD	Maintain production operation
23	Zawtika (M9 & a part of M11)	OP	80%	Myanma Oil and Gas Enterprise (MOGE)	20%	303 MMSCFD	-	Maintain production rate Drill development wells Install wellhead platforms
24	Algeria 433a & 416b (Bir Seba)	JOC	35%	PetroVietnam Sonatrach	40% 25%	-	Crude: 2.2 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 **

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	Project	Status*	PTTEP's Share	Partners (as of Q2 2016)	2016 Key Activities
Exp	oloration Phase				
Tha	<u>ailand and JDA</u>				
25	G9/43	OP	100%		
Ove	erseas				
26	Myanmar M3	OP	80%	MOECO 20%	Access development options and commercial potential
27	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
28	Algeria Hassi Bir Rekaiz	OP	24.5%	CNOOC 24.5% Sonatrach 51%	Drill Appraisal wells
29	Myanmar M11	OP	100%**		Acquire 3D seismic
30	Vietnam B & 48/95		8.5%	PVN 65.88% MOECO 25.62%	Negotiate a GSA with the Vietnamese government
31	Vietnam 52/97		7%	PVN 73.4% MOECO 19.6%	Negotiate a GSA with the Vietnamese government
32	Myanmar PSC G and EP 2	OP	70%	WinPreciousResources10%MOECO10%Palang Sophon Offshore10%	Conduct G&G studies
33	Myanmar MD 7	OP	100%		Acquire 3D seismic
34	Mariana Oil Sands	OP	100%		Assess development approach and cost reduction opportunity
35	Barreirinhas AP1		25%	BG Brasil 75%	Acquire 3D seismic

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

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	Project	Status*	PTTEP's Share	Partners (as of Q2 2016)	2016 Key Activities
<u>Ex</u>	oloration Phase				
Ov	erseas (Cont'd)				
36	Myanmar MOGE 3	OP	75%	Palang Sophon Offshore10%MOECO10%WinPreciousResources5%	Acquire 3D seismic
37	Brazil BM-ES-23		20%	Petrobras 65% INPEX 15%	Drilling result and resource evaluation
38	Malaysia SK410B	OP	42.5%	KUFPEC 42.5% PSCB 15%	

Remarks: 38 projects exclude 3 projects that are pending official withdrawal approval

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

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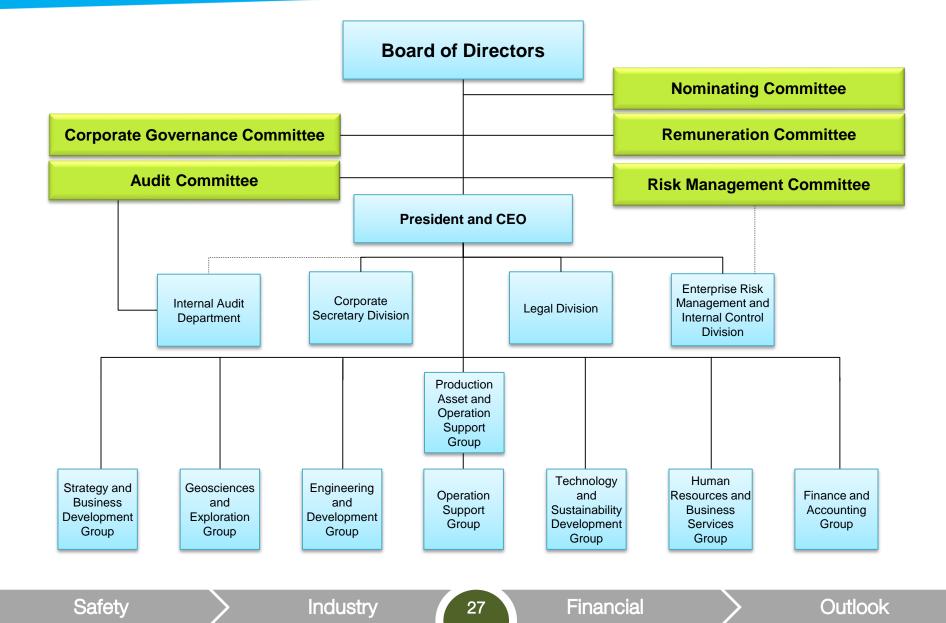
Financial



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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