

Disclaimer





Forward-looking Information

The information, statements, forecasts and projections contained herein reflect the Company's current views with respect to future events and financial performance. These views are based on assumptions subject to various risks. No assurance is given that these future events will occur, or that the Company's assumptions are correct. Actual results may differ materially from those projected.

Petroleum Reserves Information

In this presentation, the Company discloses petroleum reserves that are not included in the Securities Exchange and Commission of Thailand (SEC) Annual Registration Statement Form 56-1 under "Supplemental Information on Petroleum Exploration and Production Activities". The reserves data contained in this presentation reflects the Company's best estimates of its reserves. While the Company periodically obtains an independent audit of a portion of its proved reserves, no independent qualified reserves evaluator or auditor was involved in the preparation of reserves data disclosed in this presentation. Unless stated otherwise, reserves are stated at the Company's gross basis.

This presentation may contain the terms "proved reserves" and "probable reserves". Unless stated otherwise, the Company adopts similar description as defined by the Society of Petroleum Engineers.

Proved Reserves - Proved reserves are defined as those quantities of petroleum which, by analysis of geological and engineering data, can be estimated with reasonable certainty to be commercially recoverable, from a given date forward, from known reservoirs and under current economic conditions, operating methods, and government regulations.

Probable Reserves - Probable reserves are defined as those unproved reserves which analysis of geological and engineering data suggests are more likely than not to be recoverable.





Impact and Responses



Strategy and Growth



Financial Performance



Business Continuity Management (BCM) to overcome COVID-19





Corporate

- Implement Work From Home Policy
- Evacuate personnel working overseas back to Thailand
- Utilize digital technology in secured platform
- Thoroughly screen all contractors and visitors
- Monitor daily body temperature before entering premises



Stakeholders

- Support front line organizations to fight with COVID-19 in Thailand and overseas, in total value of over 30 Million baht.
- PTTEP with ARV (subsidiary of PTTEP) and partner developed and delivered "Negative pressure patient transfer bed" and "Mobile negative pressure box" to ensure safety of medical personnel, to hospitals nationwide





Operation sites

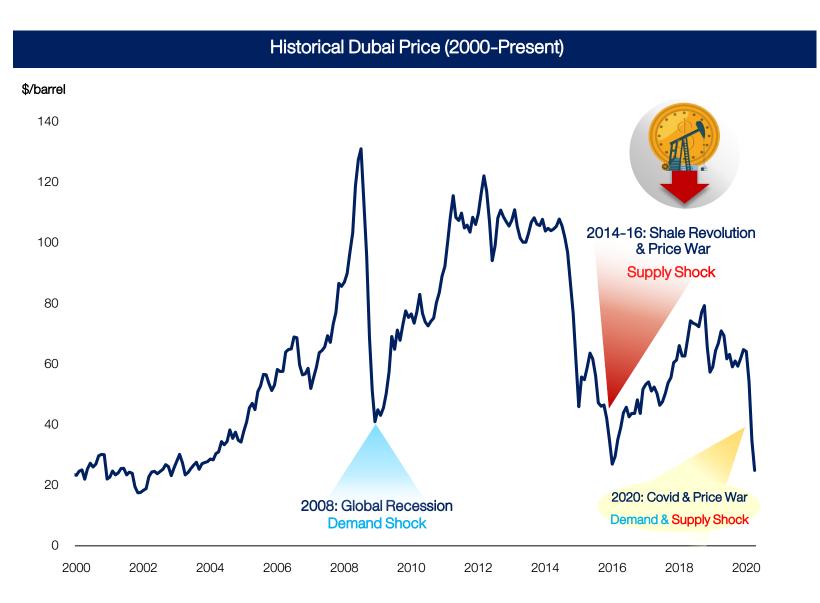
- Maintain production levels
- Postpone non-critical activities
- 14-day quarantine for all staffs and contractors before entering production sites
- Daily monitoring & heighten control measures at sites
- Strictly adhere to health & safety directions of local regulators (domestic & overseas) of each operating site



Oil markets fundamentally volatile







PTTEP is more resilient to volatility..



Outlook and Action Plans



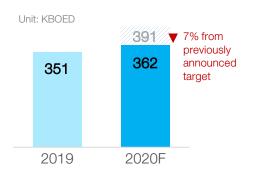




2020 Performance Outlook



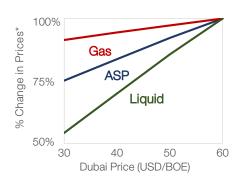
Maintain committed volume





Product Prices

Gas price is resilient to volatility





Unit: USD / BOE

Protected cash margin

- Cash Margin



Remark: ASP = Average Selling Price

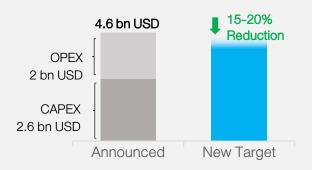


Note: * The percentage change in product prices represents change in Q2-Q4/2020

Action Plans

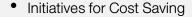
Short Term: Investment Plan Revision

..with utmost priority on future operations and energy security for Thailand



- Effective cost management on current producing assets
- Defer some exploration activities
- Reduce non-operation related expenses

Long Term: Transformation to deal with "New Normal"



- Work efficiency improvement
- Changing the way we work

^{**} With the Dubai assumption for the year 2020 around 35-40 \$/BBL









Strategy and Growth



Financial Performance



Strategies for sustainable long term

Continue to focus on "Execute" while monitoring M&A Opportunity





Value Creation from Existing Assets



Sustain sales volume as committed

Legacy Assets

Operation Continuous

Cost Management

Streamline Cost Structure for efficiency

Explore full potential in Malaysia and Myanmar

Exploration

Development

Mozambique Area 1

On track to deliver first LNG



Pre-Development

SK410B: Lang-Lebah

Strong path towards FID



Transition of New Assets



- ► On plan with operatorship transfer for G1/61
- ► Gulf of Thailand capital & operational efficiencies and synergy
- ► Increase efficiency and annexation to create more value in Malaysia





EXPAND: M&A and New Businesses

Opportunistic M&A in Strategic Areas





Transitioning technology and product builder to Business Builder



Integrated energy solution and enhancing value of existing assets

Driving towards Sustainability







- Focusing on Execute & Expand Strategy
- Maintaining robust capital structure
- Priorities on Safety, Security, Health and Environment Management System



- Conduct business with transparency under good corporate governance principles
- Robust risk management and internal control
- Conform to laws and regulations

Achievement in Q1 2020

The ninth NACC Integrity Awards (Year 2019) 2nd consecutive year



Q1/20 Progress

GHG Reduction



Reduced GHG by 12%

Circular Model for E&P



Zero hazardous waste to landfill

Ocean for Life



Conduct a test of Microplastic sampling tool

Fight with COVID-19

- Support front line organizations in Thailand and countries of operation including Myanmar and Indonesia
- "Negative pressure patient transfer bed" and "Mobile negative pressure box" developed by ARV (PTTEP's subsidiary) and partners









Impact and Responses



Strategy and Growth



Financial Performance



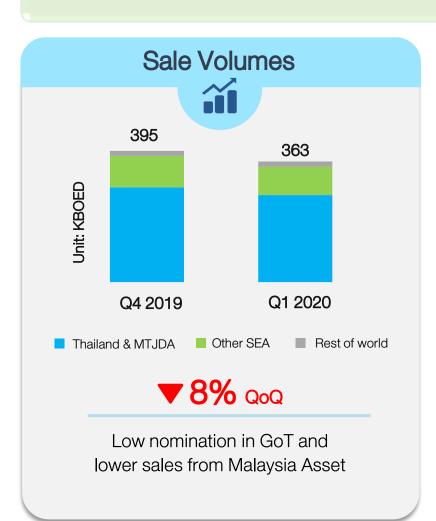
Q1 2020 Key Financial Performance

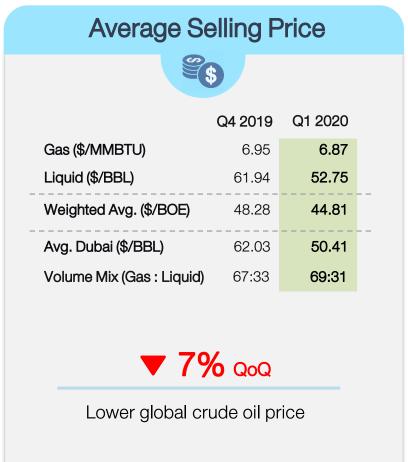
Soften net income from lower sales volume and prices

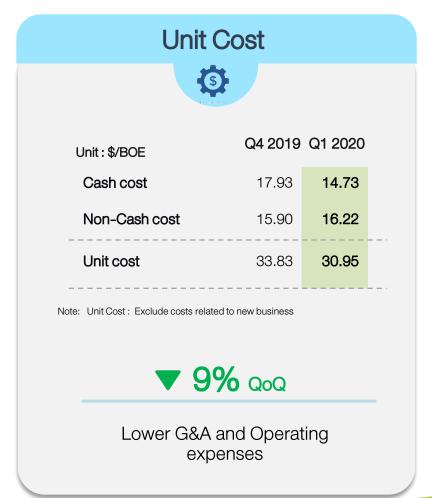


Net Income 275 MMUSD









Cash flows and Financial Position





3M 2020: Source and Use of Funds

Healthy operating cash flow

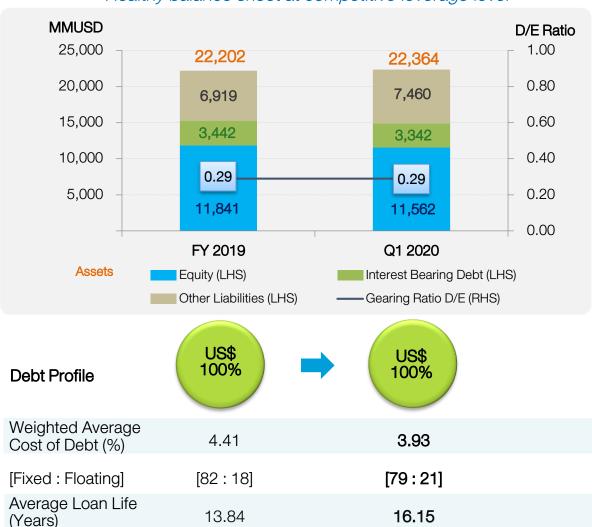


emark: * Net of adjustment for the effect of exchange rate changes on cash and cash equivalents

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

Capital Structure

Healthy balance sheet at competitive leverage level



Credit Ratings and Outlook





Credit Ratings

Affirmed credit ratings reflecting solid financial position, with strong liquidity profile

S&P Global BBB+ (Stable) S&P Ratings Moody's Baa1 (Stable) Moody's TRIS **TRIS** AAA (Stable) BBB+ (Stable) Fitch **Fitch**Ratings

2020 Guidance

Prioritize investment plan to deal with low oil price situation

	Q2 2020	FY 2020
Average Sales Volume*	~ 349	~ 362
Average Gas Price USD/MMBTU	~ 6.2	~ 5.9
Unit Cost USD/BOE	30-	31
EBITDA Margin % of sales revenues	65-7	'0 %

Note:

^{*} Include sales volume from ADNOC Gas Processing (AGP) Based on average Dubai oil price in 2020 at 37 \$/BBL







Thank you and Q&A

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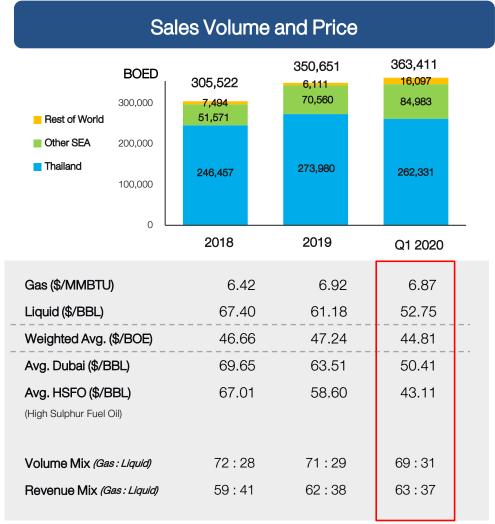
Supplementary information

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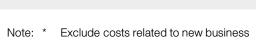
Sales Volume & Unit Cost

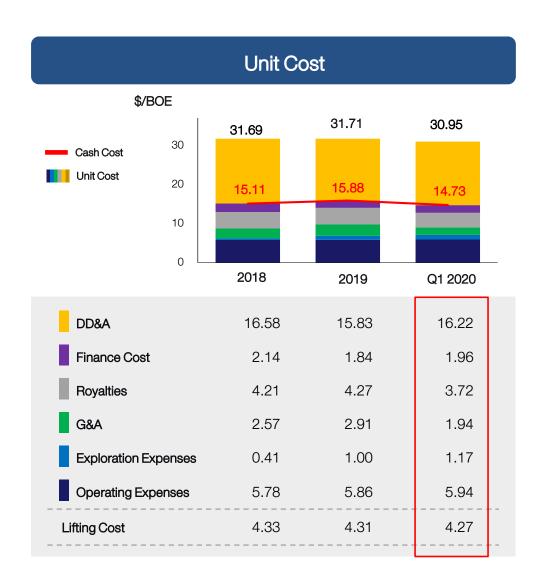






The formulas for calculating ratios are provided in the supplementary section for your reference





Cash Flow Performance

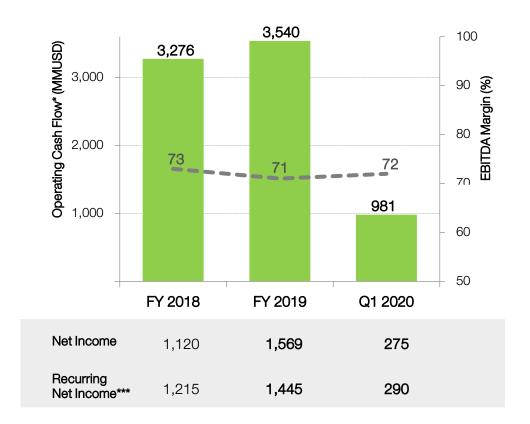




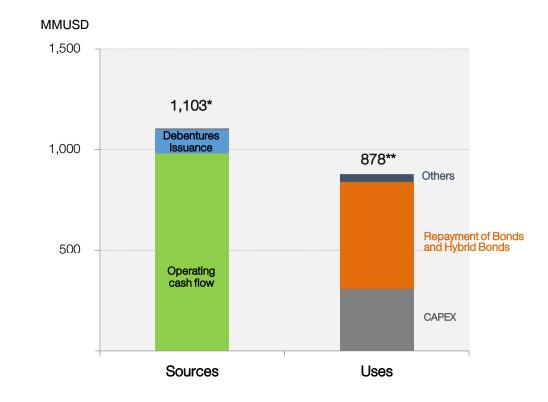


Cash Flow Performance

Operating Cashflows (LHS) — — • EBITDA Margin (RHS)



Source & Use of Funds in 3M 2020



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

 $^{^{\}star\star}$ 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 Performance: Income Statement





Sustained solid EBITDA margin

	Q4 19	Q1 20	Q1 19
Sales and Revenue from Pipeline Transportation (MMUSD)	1,780	1,506	1,356
EBITDA (MMUSD)	1,188	1,082	1,025
Net Income (MMUSD)	384	275	394
Recurring Net Income (MMUSD)	379	290	374
Earning Per Share (USD)	0.09	0.07	0.10
Key Financial Ratios			_
EBITDA Margin (%)	67	72	76
Return on Equity (%) (LTM)	13	12	9
Return on Capital Employed (%) (LTM)	11	11	8
Return on Equity (%) (LTM, Recurring Net Income)	12	12	11
Return on Capital Employed (%) (LTM, Recurring Net Income)	11	10	10

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

Financial Performance : Balance Sheet

Healthy balance sheet at competitive leverage level





	YE 19	Q1 20
Total Assets (MMUSD)	22,202	22,364
- Cash & cash equivalents * (MMUSD)	3,023	3,248
Total Liabilities (MMUSD)	10,361	10,802
- Interest bearing debt (MMUSD)	3,442	3,342
Equity (MMUSD)	11,841	11,562
Key Financial Ratios		
Total Debt to Equity (X)	0.29	0.29
Net Debt** to Equity (X)	0.04	0.01
Total Debt to Capitalization (X)	0.23	0.22
Total Debt to EBITDA (X)	0.62	0.60
EBITDA Interest Coverage (X)	39	51

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

Weighted Average Cost of Debt **: 3.93%

Average Loan Life **: 16.15 years

Note: * Cash & Cash Equivalents (Cash on hand) include Short-term Investments > 3 months <u>but</u> < 12 months Net Debt = Total Debt less Cash & Cash Equivalents

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

^{**} Excludes hybrid bonds

Cash Flows: January – March 2020

Healthy operating cash flow





Unit: MMUSD

Operating	981	CAPEX & Investment	(302)
 Income before tax & non-cash adjustment Tax payment Changes in assets/liabilities* 	1,147 (95) (71)	 CAPEX (PP&E, Intangible asset) Dividend received from related parties 	(308) 6
EBITDA 1,082 MMUSD		Finance	(454)
		■ Debentures & subordinated debenture repayment	(531)
	Free Cash Flow	■ Interest paid	(22)
	679	■ Debentures issuance	116
	Cash In (Out) 225	Beginning Cash & Cash Equivalent*** 3,023 Control Ending Balance 3,248	
f foreign exchange rate effect		,	

** Net of interest received

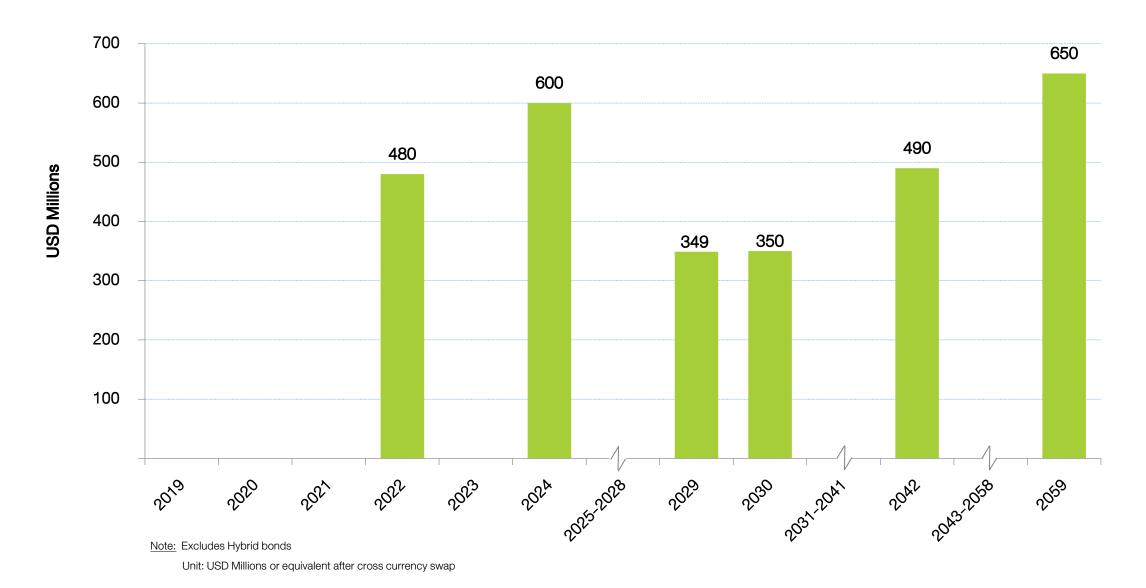
^{***} Include Short-term Investment (Fixed deposit > 3 months)

Debt Maturity Profile

As of April 2020







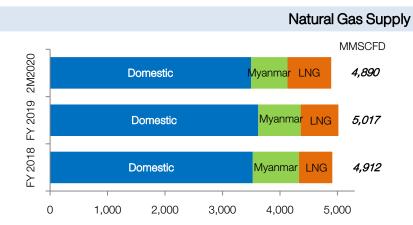
Thailand Updates

Domestic gas volume suppressed by LNG import; Expected THB depreciation continues

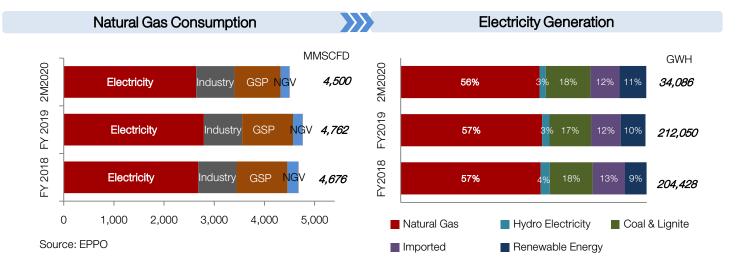




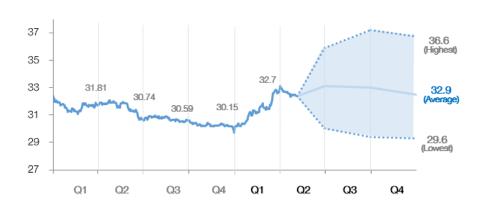
Thailand Energy Overview



Slight decline from Myanmar piped gas imports due to natural decline and significant growth in LNG import



Exchange Rate Movement (THB/USD)



Consensus on the exchange rate mostly depends on

- COVID-19 outbreak, which negatively impact Thailand's tourism revenues
- Oil price volatility that pressure to the global economy
- o Capital outflows of bond and stock markets into safer assets
- Additional monetary policies to boost economic growth from BOT

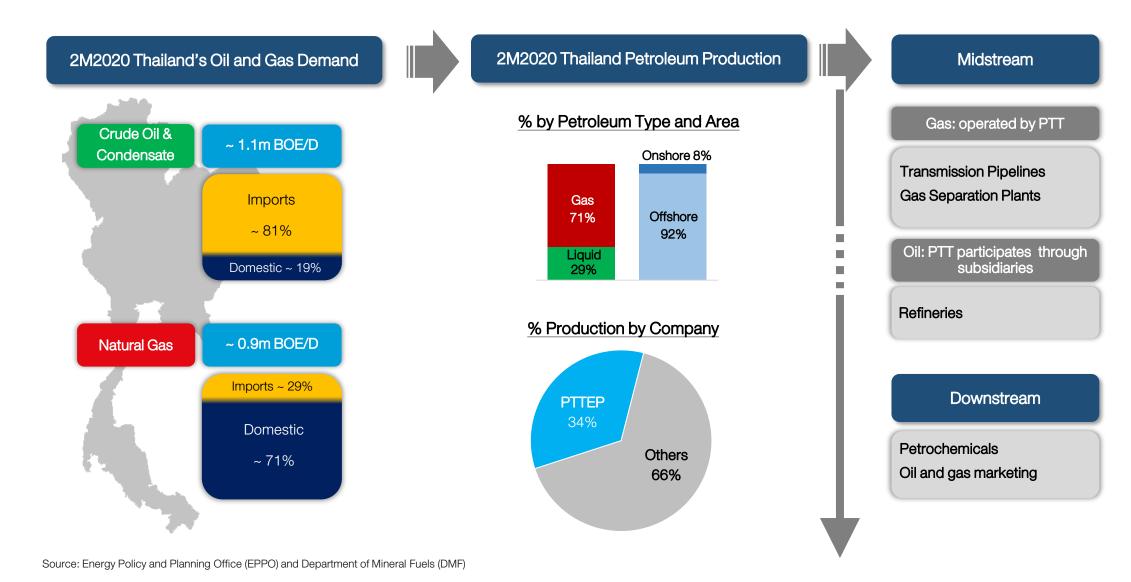
Source: Bank of Thailand, Bloomberg Forecast based on Bloomberg Consensus as of 5 May 2020

Thailand's Energy Value Chain

PTTEP contributes almost 1/3 of Thailand's petroleum production



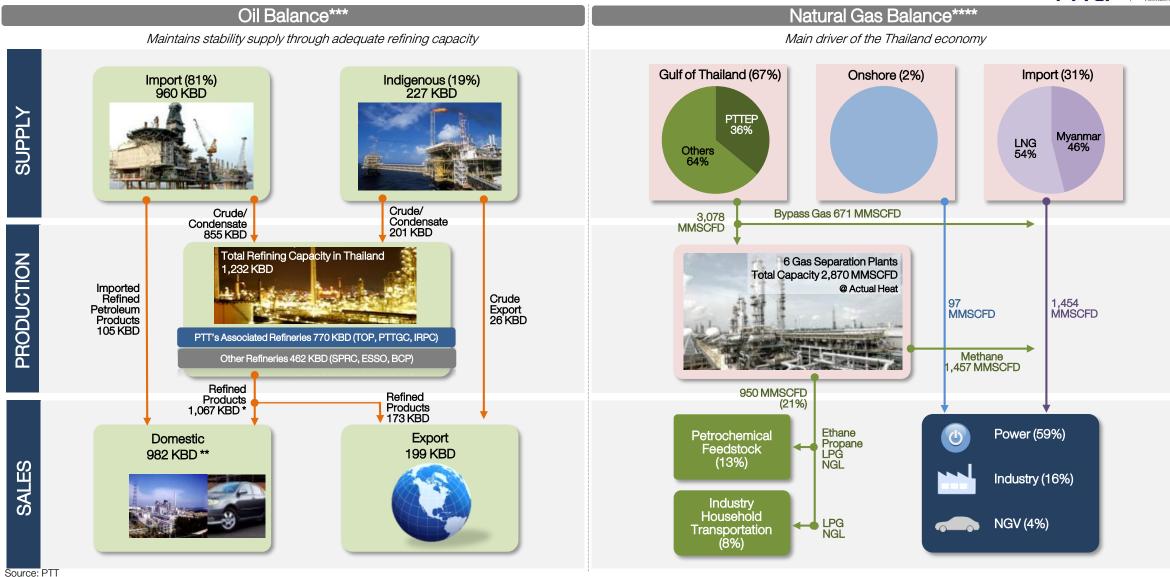




Thailand's Oil and Gas Balance







Remark: * Refined product from refineries = 1,067 KBD, including domestic supply of LPG from GSPs and Petrochemical Plants = 107 KBD

^{**} Not included Inventory

^{***} Information as of 12M19

^{****} Information as of 2M20

Awards on Sustainable development

Pursue long-term growth with social and environmental wellness





Dow Jones
Sustainability Indices
In Collaboration with RobecoSAM

2019 DJSI Listed Company

PTTEP has been selected as a member of the 2019 Dow Jones Sustainability Indices (DJSI) for the 6th consecutive year and the 2nd time as industry leader in the DJSI World Oil and Gas Upstream & Integrated Industry







FTSE4Good Emerging Index 2019

PTTEP becomes a constituent of the FTSE4Good Emerging Index 2019 for the fourth consecutive year



Proven business integrity

NACC Integrity Award 2019

The National Anti-Corruption Commission (NACC)

Asia's Icon on Corporate Governance 2019 Award

Corporate Governance Asia magazine

Board of the Year Award 2018 (Silver)

The Thai Institute of Directors Association (IOD)

Exemplary social contributor

Global CSR Award 2020 (Platinum Winner)

The Energy and Environment Foundation

Global CSR Awards

Best CSR Organizer 2019

BAZNAS of Indonesia (The National Zakat Board)

2019 Role Model Organization on Human Rights

Department of Rights and Liberties Protection,

Ministry of Justice

Green driver to environment

The Excellent Level (G-Gold) of the Green Office Award 2018

The Ministry of Natural Resources and Environment

Green Leadership Category for T.M.S. Underwater Learning Site Project

The Asia Responsible Enterprise Awards 2018

Water A List Award

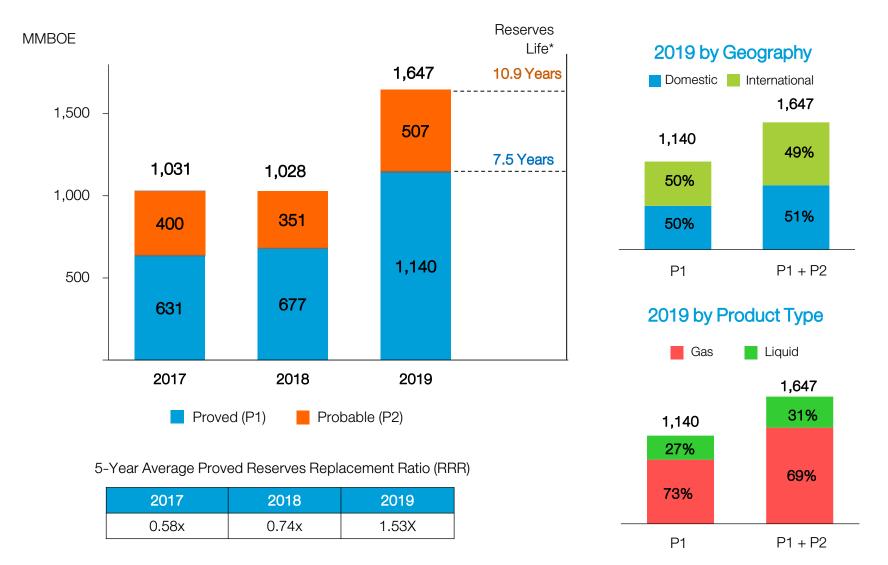
Carbon Disclosure Project (CDP)

Reserves at the Year-end 2019









- Based on total production of natural gas, condensate, and crude oil (including LPG) of 414 KBOED for the year ended December 31, 2019
- Figures include reserves from equity method

Diversified international portfolio

Oil sands





Central Asia

First presence in Kazakhstan:

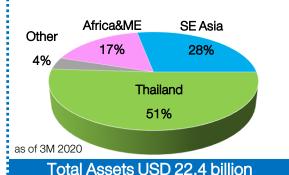
 Production: Dunga onshore oil field from the acquisition of Partex in 2019

North & South America

Opportunities in an early phase:

- Oil Sand project in Alberta
- Deepwater exploration in Brazil and Mexico with prominent and prudent operators

Book Value of Assets (by region)



Africa

An area for growth, key projects include:

- Production: Algeria's Bir Seba oil field with current flow rate of approximately 19 KBPD
- Development : Algeria's Hassi Bir Rakaiz with target 1st phase production in 2021 Mozambique Area 1 with target first cargo in 2024

Thailand

PTTEP's core production base

- 72% of total sales volume
- Key producing assets include Bongkot, Arthit, Contract 4 and S1
- Bongkot (G2/61) and Erawan (G1/61) are in transition process to ensure production continuity

Southeast Asia

Second heartland to PTTEP

- 23% of total sales volume mainly from Malaysia and Myanmar
- 3rd Largest by resources size in Malaysia with significant gas discovery in Sarawak SK 410B Project
- Gas production in Myanmar mostly supplied into Thailand
- Other producing assets in Vietnam (oil) and Indonesia (gas)

Australasia

Potential gas development

 Sizable undeveloped gas resources in Timor Sea

Presence in UAE and Oman:

Middle East

Deepwater Gas

(LNG)

2 offshore exploration blocks partr

 2 offshore exploration blocks partnered with experienced operator, ENI in Jan 2019

LNG

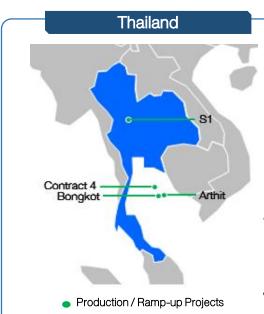
 3 onshore blocks including PDO (Block 6), the largest producing oil asset in Oman

Thailand, Myanmar and Malaysia

"Coming Home" to maintain strong foundation with full expertise







Bongkot (66.6667% WI)

 Average natural gas and condensate sales volume of 791 MMSCFD and 23 KBPD in 3M2020

S1 (100% WI)

 The largest onshore crude oil production field in Thailand with 3M2020 average crude oil sales volume of 30 KBPD

Arthit (80% WI)

 Average sales volume in 3M2020 was 227 MMSCFD of natural gas and 12 KBPD of condensates

Contract 4 (60% WI)

 Average sales rate of 382 MMSCFD for natural gas and 14 KBPD for condensate in 3M2020

Myanmar



- 3 producing gas fields supplying gas to both Thailand and Myanmar: Yadana, Yetagun, and Zawtika
- Operate Zawtika project, brought online in March 2014 with current gas supply of 326 MMSCFD in 3M2020

Project Status

Production

- Zawtika (80% WI)
- Yadana (25.5% WI)
- Yetagun (19.3% WI)

Appraisal

- M3 (80% WI)
- **Exploration**
- MD-7 (50% WI)

Malaysia



Production

Block K Project:

Kikeh $(56\%\ WI)$, Siakap North-Petai (SNP) $(22.4\%\ WI)$ and Gumusut-Kakap (GK) $(6.4\%\ WI)$

 Average production volume in 3M2020 was 31* KBPD of crude oil and 27* MMSCFD of natural gas

SK309 and SK311 Project (59.5% WI)

For East Patricia field (42% WI)

 Average production volume in 3M2020 was 237* MMSCFD of natural gas and 24* KBPD of condensates and crude.

Development

Block H Project*:

Rotan field (56% WI) Remaining Area (42% WI)

- First gas expected in the second half of 2020
- Full capacity at 270 MMSCFD

Exploration

Sarawak SK410B Project (42.5% WI)

- Multi TCF significant discovery
- Preparing additional drilling of an appraisal well in the second half of 2020

Other projects

- Evaluating petroleum potentials
- Plan for exploration and appraisal drilling in 2020-2021

^{*} The average production volumes per day, For Block K, gross production is net off utilization

Bongkot and Erawan: Thailand Champion in Domestic Gas Supply

Execute Bongkot and Erawan transition plan to ensure production continuity









Growing production and reserves profile

- Substantial volume boost for 10 years and beyond
- Immediate remarkable reserves addition
- Minimal risk in production profile



Generating strong cash flow

- No heavy upfront investment
- Self funding (positive net cash flow)
- Achieved target IRR with strong margin despite lower price

G1/61 and G2/61: Supply 80% of natural gas production in Thailand



G1/61

G2/61

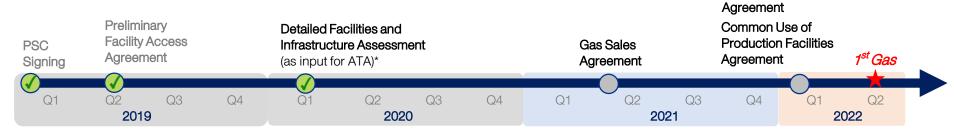
700 MMSCFD

800

2022/2023

2022





*Asset Transfer Agreement (ATA): To be agreed between current concessionaires and DMF by 2021 (1 year prior concession end)
Source: TOR

Staff and Job Handover

Other South East Asia countries

Expanding foothold in the region



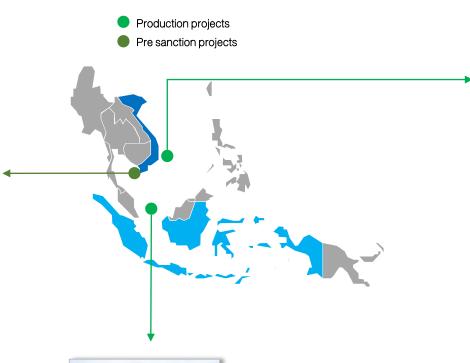


Vietnam and Indonesia



Southwest Vietnam

- Vietnam B & 48/95 (8.5% WI)
- Vietnam 52/97 (7% WI)
- Field Development Plan was approved by Government
- The project is currently in the negotiation process on commercial terms to put forward FID
- First production target by end of 2023, and ramp up to full capacity of 490 MMSCFD





Vietnam 16-1 (28.5% WI)

- Average sales volume of crude oil was 13 KBPD in 3M2020
- The project is currently drilling an additional production well to maintain production plateau.



 Average sales volume of natural gas was 249 MMSCFD in 3M2020

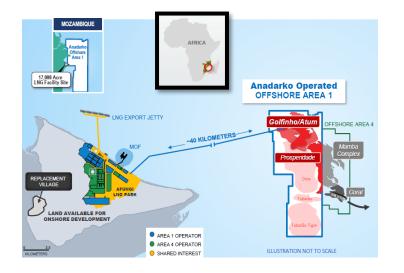


Mozambique Area 1

FID, on the path of unlocking value from world class LNG asset







Substantial recoverable resources of approximately <u>75 tcf</u> with scalable offshore development expending up to <u>50 MTPA</u>

Location and Cost Advantage

- Close proximity to shore
- High quality reservoirs

 capable of flow up to 200 mmcfd per well
- Access to Asian and European markets

Achievements

- Legal & Contractual Framework
- Plan of Development Approved
- Onshore & Offshore Contractors Awarded
- First Mover for the Marine Facility
- LNG SPAs ~11.1 MTPA



FID in June 2019 with initial 2 trains of 12.88 MTPA capacity

Way Forward



- Drilling & Completion
- Onshore Construction and Offshore Installation
- Operation Readiness
- LNG Shipping



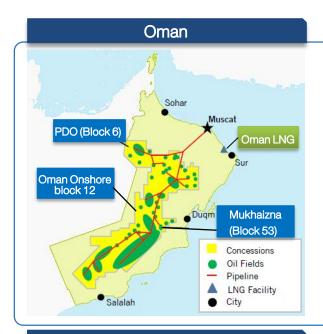
1st Cargo expected 2024

The Middle East

Access to the largest oil asset in Oman and mega Midstream Complex







PDO (Block 6)

- Largest asset covering around 1/3 of the country
- Long-life asset, produced only 15% of reserves in-place
- Multi-field oil production: 610,000 BPD (70% of Oman production)
- Operated by Petroleum Development of Oman (Joint Operating Company)

Mukhaizna (Block 53)

- Largest single onshore producing field in Oman
- Oil production: 120,000 BPD (13% of Oman production)
- Operated by Occidental Petroleum (47% interest)

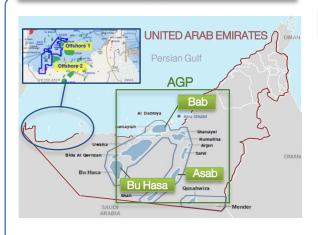
Block 12

- Located onshore central part of the Sultanate of Oman
- Signed agreement with Oman's Ministry of Oil and Gas (MOG) for exploration and production rights in February 2020
- Operated by Total E&P Oman Block 12 B.V. (80% interest)

Oman LNG

- The only LNG facility in Oman
- Processing capacity 10.4 MTPA
- Contracted LNG sales to international buyers: Japan and South Korea
- Government of Oman 51% (Operator)

UAE



Abu Dhabi Offshore 1 and 2

- High potential prospective resources with significant sizeable discoveries
- Located North-west of Abu Dhabi Emirates, United Arab Emirates
- Granted the award for exploration in January 2019
- Operated by Eni Abu Dhabi B.V. (70% interest)

ADNOC Gas Processing (AGP)

- One of the largest gas processing complexes in the world (total capacity of 8 BCFD)
 JV: 3 plants with capacity of 1.2 BCFD
 Adnoc: 2 plants with capacity of 6.9 BCFD
- Essential to Abu Dhabi and UAE's economy
- Sizeable volumes of Propane, Butane and Naphtha offtake
- Opreated by ADNOC (68% interest)







-- Entry into high potential petroleum province at exploration phase --

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
- The project is currently under the evaluation for appropriate development plan

Deep Water Brazil

U.S.



Barreirinhas AP1

- 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

BM-ES-23

- Acquired 20% interest from Shell in Q3 2014
- Partnered with Petrobras (65%, operator) and INPEX (15%)

In 2020, Both projects are currently evaluating the petroleum potential

Gulf of Mexico, Mexico



Deep-water with high petroleum potentials and attractive fiscal regime

Mexico block 12 (2.4)

- Non-operating partner with 20% participating interest
- Located in the Mexican Ridges, western Gulf of Mexico
- Currently being evaluated for petroleum potential

Mexico block 29 (2.4)

- Non-operating partner with 16.67% participating interest
- Located in the Campeche, southern Gulf of Mexico
- Made two successful deep-water oil discoveries with good quality reservoirs in May 2020. The commercial potential of the new discovery will be assessed in the next phase.

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							
Bintulu, Sarawak,	Bintulu, Sarawak, Malaysia						
Liquefaction Train	Liquefaction Train 9 Tank 7						
Commercial: Jan 2017							
3.6MTPA							
20 years							
Petronas JX Nippon PTT Global LNG Sarawak State Sabah State	65% 10% 10% 10% 5%	PIT LOOP LING					
	Bintulu, Sarawak, Liquefaction Train Commercial: Jan 3.6MTPA 20 years Petronas JX Nippon PTT Global LNG Sarawak State	Bintulu, Sarawak, Malaysia Liquefaction Train 9 Tank 7 Commercial: Jan 2017 3.6MTPA 20 years Petronas 65% JX Nippon 10% PTT Global LNG 10% Sarawak State 10%					

Key activity in 2020

- Keep maximizing LNG production up to plant capacity
- Continue to improve plant reliability & utility rejuvenation
- Get ready for 2021 plant turnaround

New Business Opportunities

Expand value chain, create innovation and step towards long-term sustainability







"Integrated Energy Solution"



- Enhance value of existing assets in Myanmar e.g. Zawtika, M3
- Support Myanmar pipeline infrastructure development
- Partner with Independent Power Producer (IPP)



"Cutting Edge Technology for E&P and more"





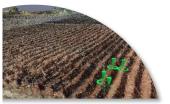
Aerial inspection service:

- Flare Tower
- Telecommunication Tower
- Tank inspection





Non E&P



Subsea Inspection & Surveillance:

- Pipeline and structural inspection
- Geophysical survey
- Gas leak survey

Focused Sectors:

- Agriculture
- Environmental
- Security

Remark: UAV is Unmanned Aerial Vehicle. AUV is Autonomous Underwater Vehicle.





	Project Contract Phase PTTEP's				Partn	ers	Sales Volume **	PITEP	
	Project	Status*	Phase	Share	(as Marcl	h 2020)	Gas (MMSCFD)	Liquid (KBPD)	2020 Key Activities
<u>Tha</u>	iland and JDA								
1	Arthit	OP	Production	80%	Chevron MOECO	16% 4%	227	12	Ensure gas deliverability level at DCQ*** Drill development wells
2	B6/27	OP	Production	100%			-	-	Prepare for decommissioning activities
3	B8/32 & 9A	J۷	Production	25.001%	Chevron MOECO KrisEnergy Palang Sophon	51.66% 16.71% 4.63% 2%	52	18	 Drill development wells Perform waterflood activities
4	Bongkot	OP	Production	66.6667%	TOTAL	33.3333%	791	23	Maintained production level as planned Prepare for decommissioning activities
5	Contract 3 (Formerly Unocal III)	JV	Production	5%	Chevron MOECO	71.25% 23.75%	633	37	Drill development wells Prepare for decommissioning activities
6	Contract 4 (Formerly Pailin)	٦V	Production	60%	Chevron MOECO	35% 5%	382	14	Ensure gas deliverability level at DCQ*** Drill development wells
7	E5	JV	Production	20%	ExxonMobil	80%	8	-	Ensure gas deliverability level at DCQ***
8	G4/43	JV	Production	21.375%	Chevron MOECO Palang Sophon	51% 21.25% 6.375%	2	4	Drill development wells
9	G4/48	JV	Production	5%	Chevron MOECO	71.25% 23.75%	4	0.6	Drill development wells
10	L53/43 & L54/43	ОР	Production	100%			-	1.3	Maintain production plateau Drill development wells
11	PTTEP1	ОР	Production	100%			-	0.150	Drill a development well Maintain production plateau
12	S1	ОР	Production	100%			7	Crude: 30 KBPD LPG: 0.2 KMT/D	Drill development wells Enhance oil recovery program includes hydraulic fracturing and artificial lift
13	Sinphuhorm	ОР	Production	55%	Apico**** ExxonMobil	35% 10%	84	0.265	Ensure gas deliverability Drill an exploration well and development wells

Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship / JV = PTTEP Joint Venture Partner Sales volume stated at 100% basis.

^{***} DCQ = Daily Contractual Quantity

^{****} PTTEP holds indirectly and directly 80.48% participating interest in Sinphuhorm Project. APICO also holds 100% participating interest in Block L15/43 and Block L27/43.

Project information 2/5





		PTTEP's Share Partners 3M2020 Average Sales Volume **		Sales Volume **	2020 Key Activities				
	Project	Status*	Phase		(as March 20	20)	Gas (MMSCFD)	Liquid (KBPD)	
Tha	ailand and JDA								
14	L22/43	OP	Production	100%			-	-	Maintain production operation
15	MTJDA	JOC	Production	50%	Petronas-Carigali	50%	285	9.6	Drill development wells Ensure gas deliverability level at DCQ***
16	G9/43	OP	Exploration	100%					
17	G1/61 (Erawan)	ОР	Exploration	60%	MP G2 (Thailand) Limited	d 40%			Awarded as an operator for Erawan field (Contract 1, 2 and 3) under PSC (after concession-end in 2022) E&A study (seismic interpretation) Installation new head platform
18	G2/61 (Bongkot)	OP	Exploration	100%					Awarded as a sole operator under PSC (after concession-end in 2022/2023) Drill appraisal and exploration wells Installation new head platform
<u>Oth</u>	ers SEA								
1	Malaysia	OP (except Gumusut- Kakap (GK) in Block K)	Production/ Exploration/ Development	6.4-80% (varied by permits)			SK309 and SK311 237 Block K 27	SK309 and SK311 24 Block K 31	 Production projects(SK309 and SK311, Block K): Maintain production plateau Block H: first gas expected in 2H/2020 Sarawak SK410B: drill an appraisal well Other exploration projects: drill exploration wells, G&G study and perform 3D seismic activities
2	Yadana	JV	Production	25.5%	TOTAL Chevron MOGE	31.24% 28.26% 15%	716	-	Drill exploration and development wells Ensure gas deliverability level at DCQ****
3	Yetagun	JV	Production	19.3178%	Petronas-Carigali MOGE Nippon Oil PC Myanmar (Hong Kong)	30.00140% 20.4541% 19.3178% 10.90878%	62	2.3	Maintain production level Drill exploration and development wells
4	Zawtika (M9 & a part of M11)	OP	Production	80%	Myanma Oil and Gas Enterprise (MOGE)	20%	326	-	Ensure gas deliverability level at DCQ*** Drill exploration and development wells Perform 3D seismic activities
5	Myanmar M3	OP	Exploration	80%	MOECO	20%			FEED/ Subsurface/ Surface studies Negotiate and finalize GSA
6	Myanmar M11	OP	Exploration	100%					Perform 3D seismic activities Block relinquish
7	Myanmar MD-7	OP	Exploration	50%	TOTAL	50%			Drill an exploration well 3D Reprocessing seismic activities G&G studies

^{*} Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship/ JV = PTTEP Joint Venture Partner

** Sales volume stated at 100% basis except Malaysia (Production volume 100% as of 3M/2020)/ For Block K, gross production is net off unitization

*** DCQ = Daily Contractual Quantity

Project information 3/5





	D. C.	04.4	DI	PTTEP's Share	Partners	3M2020 Averag	e Sales Volume **	2020 Key Activities
	Project	Status*	Phase		(as March 2020)		Liquid (KBPD)	,
Oth	ers SEA							
8	Myanmar MOGE 3	ОР	Exploration	77.5%	MOECO	0% 0% 5%		G&G studies Complete site reinstatement
9	Vietnam 9-2	JOC	Production	25%	SOCO 2	0% 5% 15	2.7	Maintain production level Perform well intervention program Development drilling study support
10	Vietnam 16-1	JOC	Production	28.5%		1% 5% 6 2%	13	Maintain production level Drill development wells
11	Vietnam B & 48/95	JV	Exploration	8.5%	PVN 65.6 MOECO 25.6			FEED study Negotiation process on commercial terms in order to push forward the Final Investment Decision (FID) the first production target at the end of 2023
12	Vietnam 52/97	JV	Exploration	7%		4% 6%		FEED study Negotiation process on commercial terms in order to push forward the Final Investment Decision (FID) the first production target at the end of 2023
13	Natuna Sea A	JV	Production	11.5%			1.5	FEED study: Start Anoa & Gajah Baru compressor project
Mid	dle East					•		
1	Abu Dhabi Offshore 1	JV	Exploration	30%	Eni Abu Dhabi 7	0%		Reprocess Seismic G&G studies
2	Abu Dhabi Offshore 2	JV	Exploration	30%	Eni Abu Dhabi	0%		Drill an exploration well Perform 3D seismic activities
3	PDO (Block 6)	JOC	Production	2%	Oman	0% 4% 4%	399	A part of Partex acquisition which was completed on 4 November 2019 Maintain production plateau
4	Mukhaizna	JV	Production	1%	OOCEP 2 Indian Oil 1	7% 0% 7% 5%	70	A part of Partex acquisition which was completed on 4 November 2019 Maintain production plateau
5	Block 12	JV	Exploration	20%	Total E&P Oman	0%		Signed Exploration and Production Sharing Agreement (EPSA) with Oman's Ministry of Oil and Gas (MOG) for exploration and production rights on 19 Feb 2020

Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship / / JV = PTTEP Joint Venture Partner
 Sales volume stated at 100% basis

Project information 4/5





				PTTEP's Share	Partners		3M2020 Average	Calaa Valuma **	2020 Key Activities
	Project	Status*	Phase	PITEPS Share	(as March 2020)		Gas (MMSCFD)		2020 Key Activities
Oth	er International				(as Maich 2020)		Gas (IVIIVISCED)	Liquia (KBPD)	
<u> </u>	<u>ci international</u>								
1	PTTEP Australasia (PTTEP AA)	OP	Exploration	90%-100% (varied by permits)					 AC/RL7 (Cash Maple): under the evaluation of appropriated development plan and seeking partner to manage the project's risk Other exploration projects: G&G and P&A studies AC/L3: total block relinquishment
2	Mozambique Area 1	JV	Development	8.5%	ENH, ONGC Beas Poyuma	6.5%,20% 15%, 10% 10%, 10%			 First Cargo is expected by 2024 Finalize project Finance Continue Onshore and Offshore well construction Complete Resettlement
3	Algeria 433a & 416b (Bir Seba)	JOC	Production	35%	PetroVietnam Sonatrach	40% 25%	-	19 (net entitlement)	Drill production wells
4	Algeria Hassi Bir Rekaiz	OP	Development	24.5%	CNOOC Sonatrach	24.5% 51%			Drilling development wells FEED study Continue Improvement oil study (IOR)
5	Mariana Oil Sands	OP	Exploration	100%					Assess appropriated development approach
6	Barreirinhas AP1	JV	Exploration	25%	Shell Brasil Mitsui E&P Brasil	65% 10%			G&G studies
7	Brazil BM-ES-23	JV	Exploration	20%	Petrobras INPEX	65% 15%			G&G studies
8	Mexico block 12 (2.4)	JV	Exploration	20%	PC Carigali Mexico Ophir Mexico	60% 20%			EIA and G&G study to access petroleum potential
9	Mexico block 29 (2.4)	JV	Exploration	16.67%	Repsol Mexico PC Carigali Mexico Wintershal DEA	30% 28.33% 25%			Drilling Exploration wells G&G study to access petroleum potential

^{*} Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship/ JV = PTTEP Joint Venture Partner
** Sales volume stated at 100% basis except for Algeria 433a & 416b (Net Entitlement)

Project information 5/5





	Project	Status*	Phase	PTTEP's Share	Partners	3M2020 Average	Sales Volume **	2020 Key Activities
Othe	er International				(as March 2020)	Gas (MMSCFD)	Liquid (KBPD)	
10	Block 17/06	JV	Pre development	2.5%		%		A part of Partex acquisition which was completed on 4 November 2019 Maintain production plateau
11	Potiguar	ОР	Production	50%	Petro reconcavo 50	%	0.147	A part of Partex acquisition which was completed on 4 November 2019 Maintain production plateau
12	Dunga	JV	Production	20%	Total* 60 OOCEP 20		13	A part of Partex acquisition which was completed on 4 November 2019 Maintain production plateau
Mids	stream Project					·		
1	Oman LNG	Shareholder	On line	2%	Government of Oman 51 Shell 30 Total 5.54 Korea LNG 5 Mitsubishi 2.77 Mitsui 2.77 Itochu 0.92	% % % % %		A part of Partex acquisition which was completed on 4 November 2019
2	ADNOC Gas Processing (AGP)	JV	On line	2%	ADNOC 68 Shell 15 Total 15	%		A part of Partex acquisition which was completed on 4 November 2019

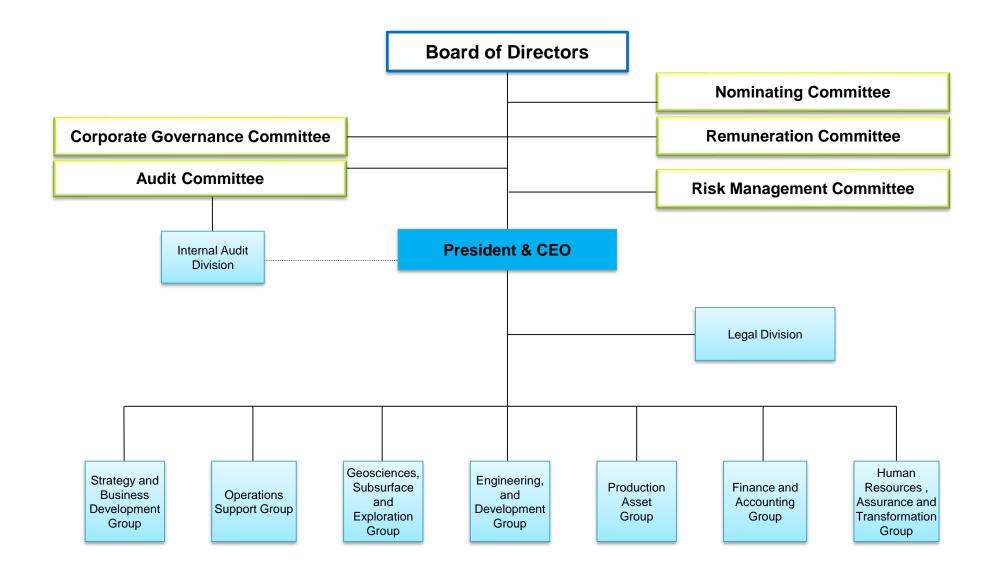
[•] Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship / JV = PTTEP Joint Venture Partner ** Sales volume stated at 100% basis

Organization structure

Ensuring transparency, integrity and good corporate governance







Supplementary Index : Ratio & Formula





Ratio	Formula Company of the Company of th
Lifting Cost (\$/BOE)	(Operating Exp. – Transportation Cost – Stock Variation – Other expenses not related to lifting) / 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 & Amortization of 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 & Amortization of Bond Issuing Cost