



Investor Presentation

Pan-Asia Regional Investor Conference 2021 by Citi

4 June 2021

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.

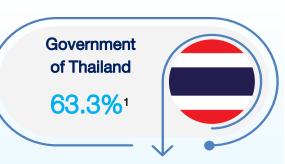




PTTEP - E&P arm of the PTT Group





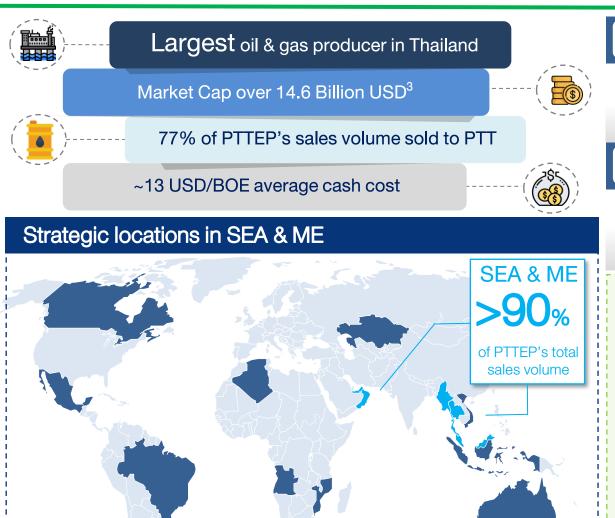


Thailand's National energy company 65.29%²



Notes:

- 1. 51.1% is directly held by the Government of Thailand (Ministry of Finance), with the remaining 12.2% held by the state-controlled Vayupak Fund I as of 5 Jan 2021
- 2. Ownership as of 2 March 2021 (PTT and Siam Management Holding Co., Ltd. (Subsidiary of PTT)
- 3. Ranked 6th in the Stock Exchange of Thailand





Baa1 / Stable
Stand-alone at Baa2

AAA / Stable



7th Consecutive year as member of DJSI

5th consecutive year as member of THSI





5th Consecutive year as member of FTSE4Good Emerging Index Series





Highlights & Key Achievements

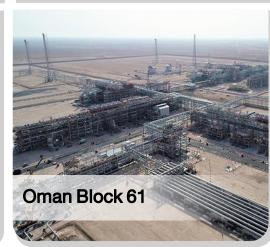




First gas production

Successful M&A





Multiple discoveries in Malaysia









Erawan (G1/61) Transition



Myanmar Situation Update



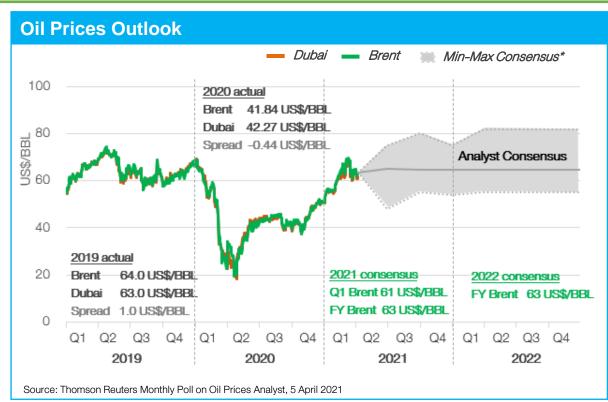
Mozambique Situation Update

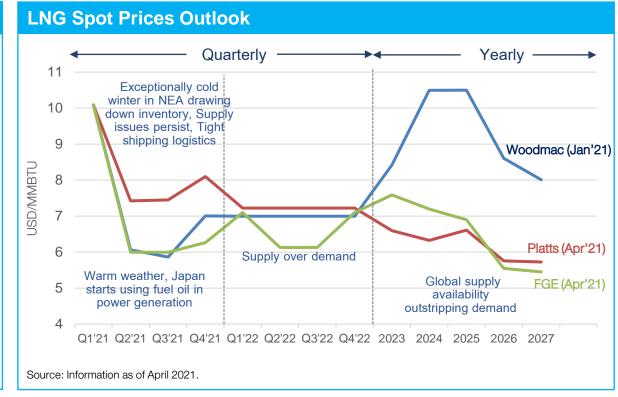




Oil and LNG prices outlook for 2021

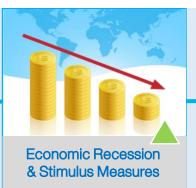














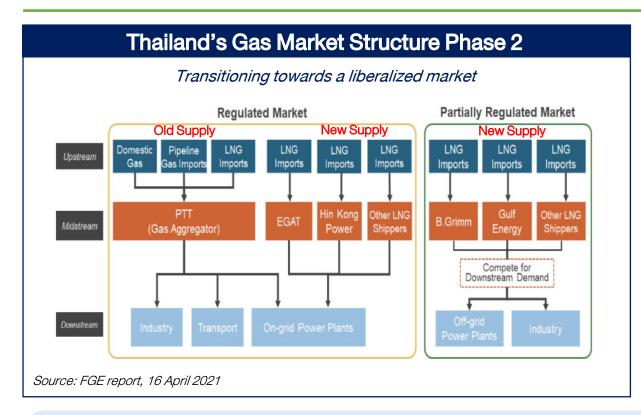


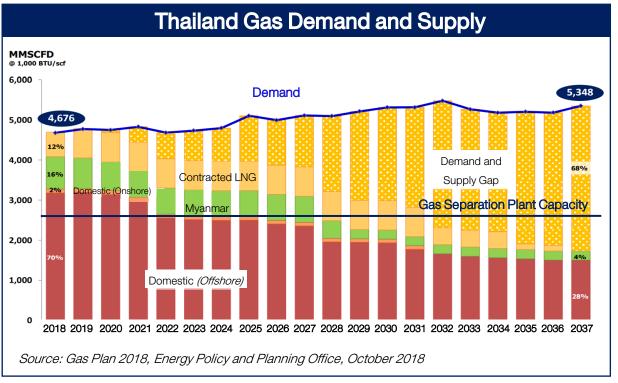




Gas Liberalization in Thailand







- PTT will continue to manage existing gas supply, **Old Supply**, with priority to feed Gas Separation Plant given to gas from Gulf of Thailand. Main gas contributors would be G1/61 & G2/61 projects.
- New shippers will be allowed to import LNG, as **New Supply**, to feed on-grid and off-grid power plants and industries.
- PTTEP will compete in the New Supply market via PTT GL, a joint venture company between PTT and PTTEP. Expecting approval in Q2/2021.





Core E&P Business



Key Achievements in Malaysia

Sabah H - First Gas

- 1st gas production delivered to PFLNG2 in early Feb 2021.
 Ramping up to full capacity 270 MMSCFD
- Contributing ~15 KBOED to PTTEP's sales volume in 2021 and ~20 KBOED in 2022

Multiple Exploration Successes

Appraisal well result beyond expectation

 SK410B (LLB) – production capacity upside to 800-1,000 MMSCFD, with FID planned in 2022

New Petroleum Discoveries

- SK417 (Dokong) high quality gas discovery with additional well drilling in 2021, presenting future synergy development opportunities with SK410B
- SK405B (Sirung) oil and gas discovery with appraisal well planned in 2022 to assess upside potential









Assets Transition in Thailand

G1/61 (Erawan)

Continuously and closely coordinated with government for minimal impact from site access delay. The first priority on country's energy security.

G2/61 (Bongkot)

- On track deliver gas at the minimum volume stated in PSC 2022@200MMSCFD 2023@700MMSCFD
- New production platforms installation in 2021 and 2022

Stronger Presence in Oman

- Completed the acquisition of 20% interest in Block 61, Oman on 23 March 2021
- Contributing ~29 KBOED to PTTEP's sales volume in 2021 and ~52 KBOED in 2022



New Business – Gas to Power



300 MMSCFD 370 KM Pipelines 600 MWh Power Plant



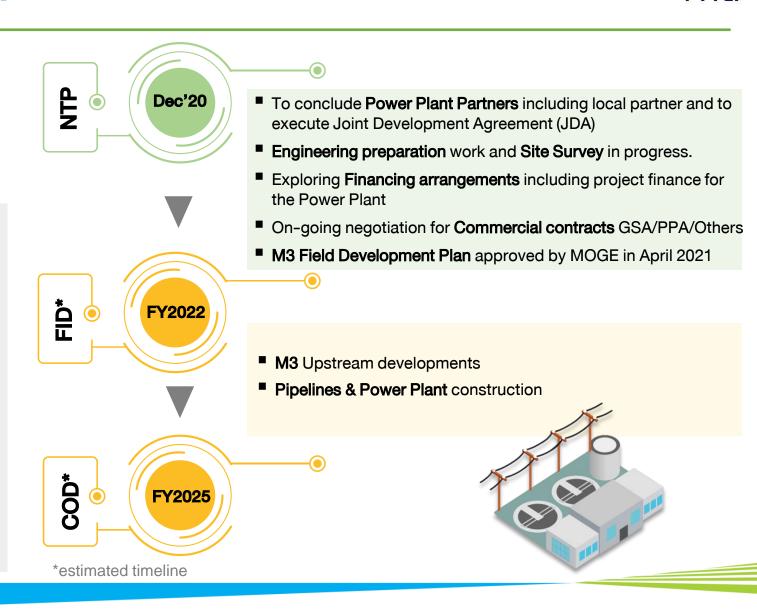
Upstream: Expanding gas value chain into Power business by commercialization of gas supply from M3 and M9 (Zawtika) fields for power plant project



Pipelines & Gas Stations: Offshore and onshore pipelines connecting Kanbauk, DawNyien, Kyaiklat and gas stations.



Power Plant: Gas-fired Combined Cycle Power Plant (CCPP) in Kyaiklat connecting with 230kv transmission line. 100% sold to EPGE's national grid.



New Business – ARV





+2X -**30%** Speed Cost

O HumanRisk End-to-End Al augmented subsea Inspection Repair and Maintenance (IRM) using ROV, XPLORER, NAUTILUS, AUTOBOAT



+10XSpeed

-20% Cost

+10XEnergySave

One-stop service for Smart Farming and Smart Forestry using **Varun Platform** and **AiAng Sprayer Drone**



+8XSpeed

-30% Cost

O HumanRisk Cloud-based asset inspection and management via AIM Platform, and Aerial Drones and AI/ML Services

HEALTHTECH

Life-time digital health

TH Largest Ecosystem

Ecosystem for illness & good health with interactive, personalized & professionally endorsed online hospital with health & welfare benefits





















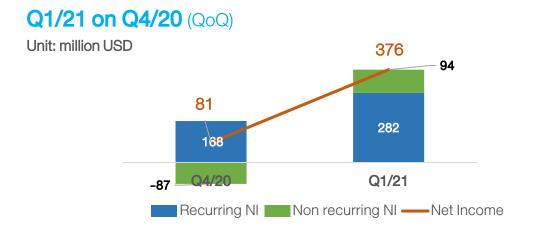




Results - Net Income



Improved from higher liquid price, lower cost, and gain from asset acquisition



Recurring (+114 MMUSD or +68%)



+0.4%

From Bongkot, Block 61, offset with Partex and Malaysia



+10%

Higher liquid price



-10%

Lower unit costs

Non-recurring (+181 MMUSD or +>100%)



Mainly from Gain from a bargain purchase of Block 61 offset with Oil price hedging loss and Exploration assets write-off

Q1/21 on Q1/20 (YoY)



Recurring (-8 MMUSD or -3%)



+5%

Increase from Gulf of Thailand. Partex, and Block 61



-10%

Lag time adjustment Selling Price Gas price



-10%

Lower unit costs

Non-recurring (+109 MMUSD or +>100%)



Mainly from Gain from bargain purchase offset with oil price hedging loss

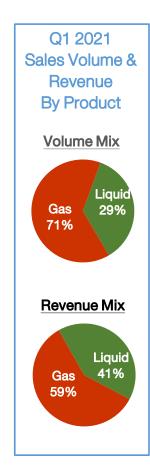
Results – Sales Volume and Avg. Selling Price



Strong volume growth from higher demand in Gulf of Thailand and acquisition of Block 61 in Oman



Sales Price	2020	Q4 20	Q1 21	Q1 20
Gas (\$/MMBTU)	6.27	5.63	5.61	6.87
Liquid (\$/BBL)	41.55	42.61	56.59	52.75
Weighted Avg. (\$/BOE)	38.92	36.85	40.38	44.81
Avg. Dubai (\$/BBL)	42.27	44.64	60.01	50.41
Avg. HSFO (\$/BBL)	39.30	44.07	56.74	43.11
(High Sulphur Fuel Oil)				

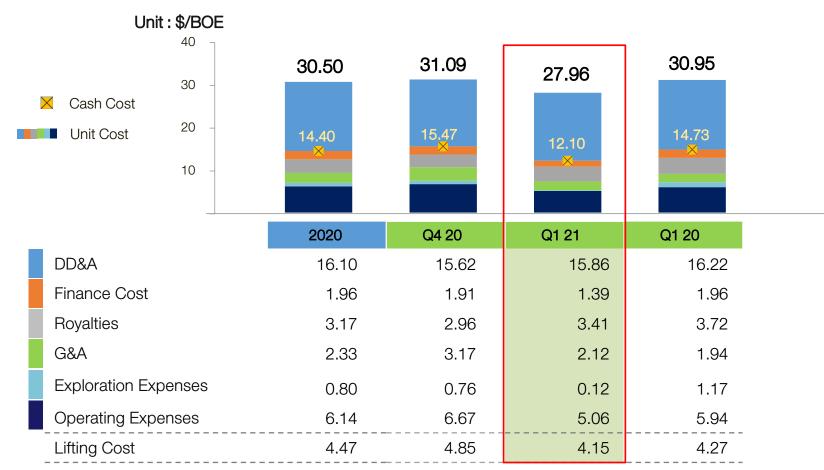


Note: Include sales volume from ADNOC Gas Processing (AGP)

Results – Unit Cost

PTTEP

Lower unit cost from effective cost management



Note: * Exclude Exploration assets write-off in Brazil

All Unit Cost shown above exclude costs related to new business

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

Results – Cash flows and Financial Position



Strong operating cash flow offset with cash outflow for future growth



Financial Outlook



2021 Guidance

Average Sales Volume*



Average Gas Price**



Unit Cost



EBITDA Margin

% of Sales Revenue

Q2 & Full year

~70-72%

Note:

- Include sales volume from ADNOC Gas Processing (AGP)
- ** Based on average Dubai oil price in 2021 at 55.5 \$/BBL

Credit Rating/Outlook

International





BBB+ / StableBBB stand-alone rating



Baa1 / Stable
Baa2 stand-alone rating

National





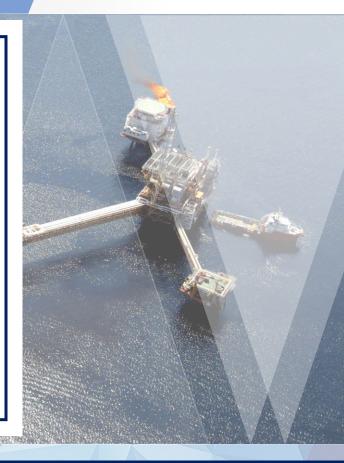


Supplementary information





Financial Results Q1/2021	22-24
Industry and Thailand Energy Updates	25-27
Sustainable Development	28
Reserves at Year-end 2020	29
Key Project Highlights by Region	30-35
Project Details	36-40
Organization Structure	41
Ratio and Formula	42



Results - Net Income



Strong net income from higher liquid price and gain on assets acquisition

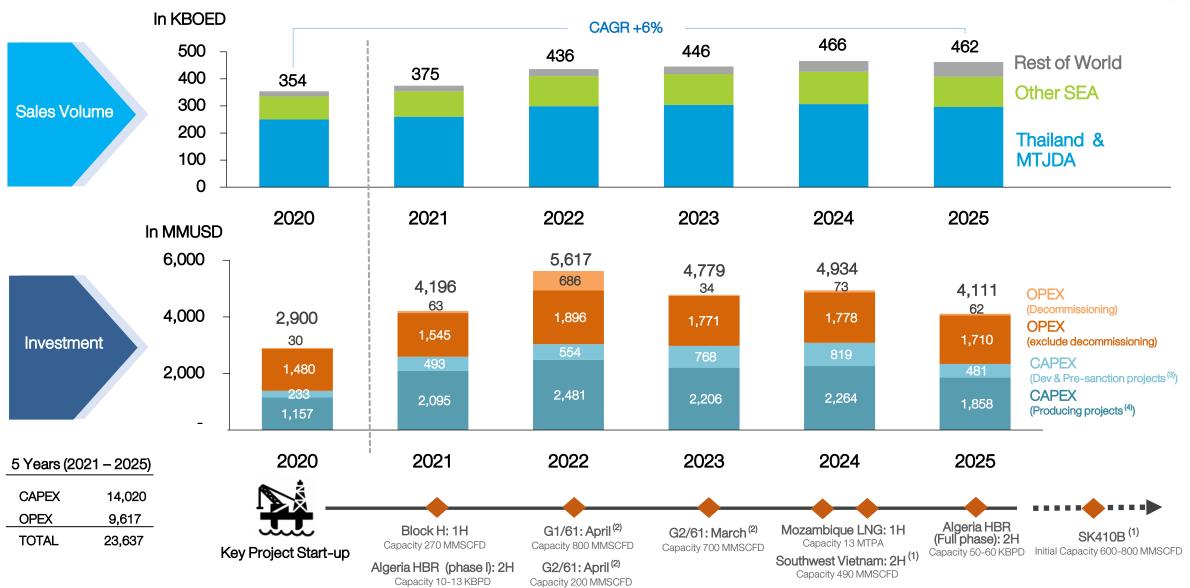
					Unit: MMUSD
Statements of Income	Q1 21	Q4 20	%YTD	Q1 20	% YoY
Total Revenues	1,779	1,348	32%	1,771	0%
Sales	1,391	1,292	8%	1,482	(6%)
Sales Volume (BOED)	382,877	381,285	0%	363,411	5%
Sales Price (US\$/BOE)	40.38	36.85	10%	44.81	(10%)
Gain from a bargain purchase	350	-	100%	_	100%
Others **	38	56	(32%)	289	(87%)
Total Expenses	1,403	1,267	11%	1,496	(6%)
Major Expenses:					
Operating Expenses	174	234	(26%)	197	(12%)
Exploration Expenses	149	27	>100%	39	>100%
G&A	75	117	(36%)	66	14%
DD&A	547	548	0%	536	2%
Loss on Financial Instruments	98	72	36%	-	100%
Income Tax Expenses	192	79	>100%	452	(58%)
Net income	376	81	>100%	275	37%
Recurring Net Income	282	168	68%	290	(3%)
Non-recurring Net Income	94	(87)	>100%	(15)	(>100%)
Major items: Non-recurring Net Income - Gain (Loss) from				
Tax from Effect of FX	(9)	10	(>100%)	(225)	96%
Oil Price Hedging	(107)	(38)	(>100%)	166	(>100%)
Effect from FX and others	5	(15)	>100%	44	(89%)
Impairment Loss on Assets	-	(44)	100%	-	_
Exploration assets write-off	(145)	-	(100%)	-	(100%)
Gain from a bargain purchase	350	_	100%	_	100%

^{*}Consisted of Gain/(Loss) on FX and Forward Contract

Five -Year Plan: Sales Volume and Investment







23

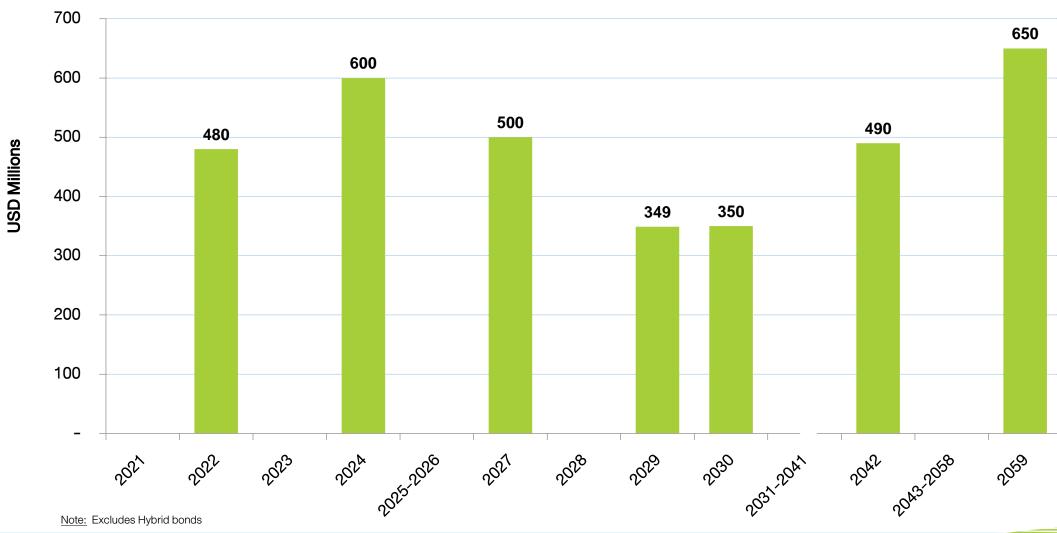
Note: the above 5-year plan does not include the acquisition of Oman Block 61.

⁽¹⁾ Subject to regulatory approval and FID timing (2) According to Production Sharing Contracts signed on 25 February 2019 (3) Development & Pre-sanction projects include Mozambique LNG, Algeria HBR, SK410B, and Southwest Vietnam (4) Includes exploration and appraisal in all projects and head office CAPEX

Debt Maturity Profile

As of March 2021



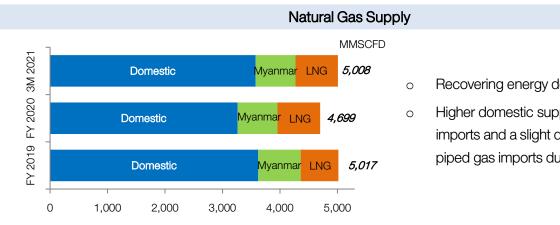


Thailand Updates

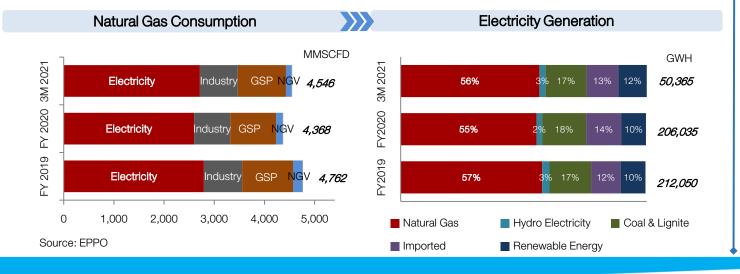
Higher gas volume with recovering demand constraint; THB fluctuation continues



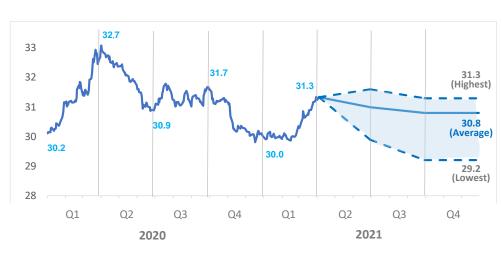
Thailand Energy Overview



- Recovering energy demand
- Higher domestic supply with less LNG imports and a slight decline from Myanmar piped gas imports due to natural decline



Exchange Rate Movement (THB/USD)



Consensus on the exchange rate mostly depends on

- o New wave of Covid-19 infections and efficacy of Covid-19 containment measures
- The recovery of tourism sector in Thailand and global economic recovery
- Sustained and coordinated government policy support

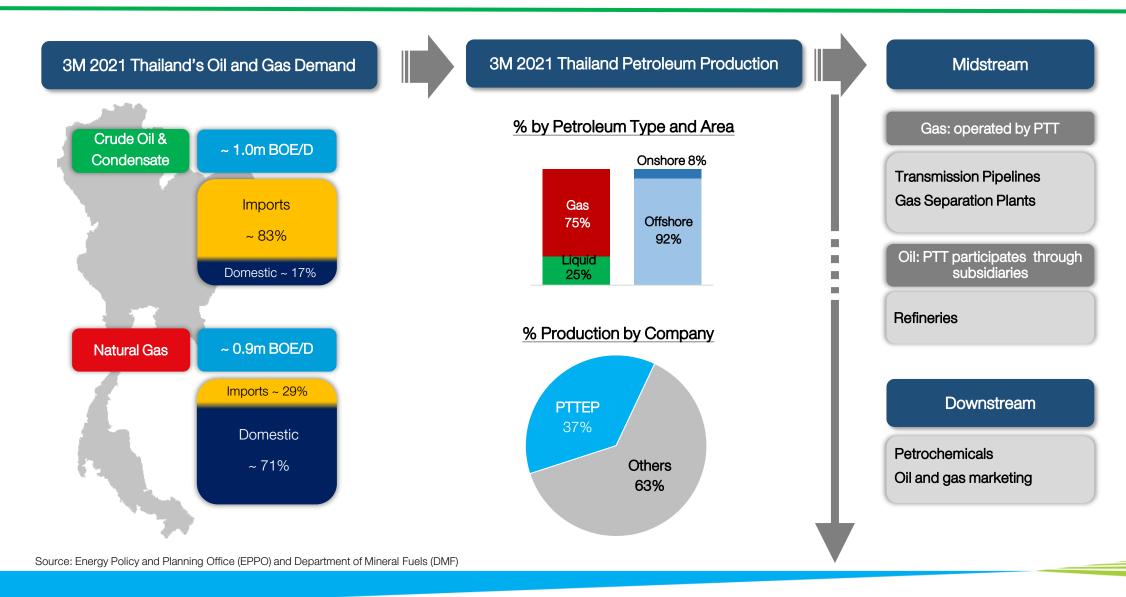
Source: Bank of Thailand, Bloomberg

Forecast based on Bloomberg Consensus as of 31 March 2021

Thailand's Energy Value Chain

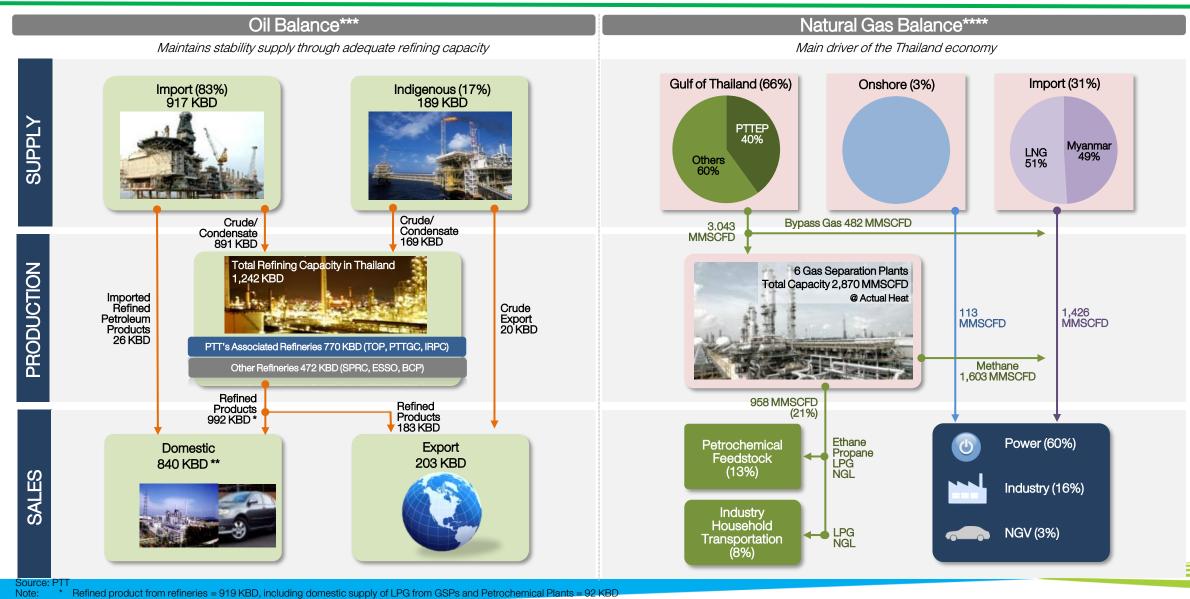






Thailand's Oil and Gas Balance





*** Information as of 3M21
**** Information as of 3M21
MMSCFD @ Heating Value 1,000 Btu/ft³

** Not included Inventory

PTTEP SD Framework – Foundation of our operations





"Energy Partner of Choice"

through competitive performance and innovation for long-term value creation

"WORLD"

Strengthen core business

Top Quartile Unit Cost (25 US\$/BOE) & Production 5% CAGR (1)

- Maximize Value of Existing Assets
- G1& G2 Asset Transition
- Development Projects
- Execute Exploration Activities

Diversify to New Business

20% Net Income from New Business (1)

- Scale up and Expand Markets for ARV

Power Business

Grow E&P Portfolio

7 years for Reserve to Production Ratio (1)

E&P Growth on core areas

Drive LNG Value Chain

JV Investment & Marketing Capability (1)



Transform to New Normal

Efficiency improvement & Top Quartile Manpower (1)

GHG Reduction

25% GHG Intensity Reduction (2) (from base year 2012)

- Flare gas utilization
- Energy efficiency
- Study carbon storage



Circular Model for E&P

Stakeholder Value Creation

Be Responsible

50% Reuse of Structure & Zero Waste to Landfill (2)

PTTEP

Sustainable Organization

- Top-side reuse
- · Drill cuttings for road pavement
- Mobile production facility usage



- Zero tolerate on corruption
- Zero tolerate on non-compliance
- Strengthen GRC culture
- Expand GRC to business partners





GRC Role Model for TH listed company

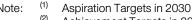


Ocean for Life

Improve Positive Value to Biodiversity & Community Income (2)

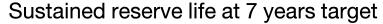
- · Ocean health monitoring
- · Rig to Reef
- Environmental restoration and reservation



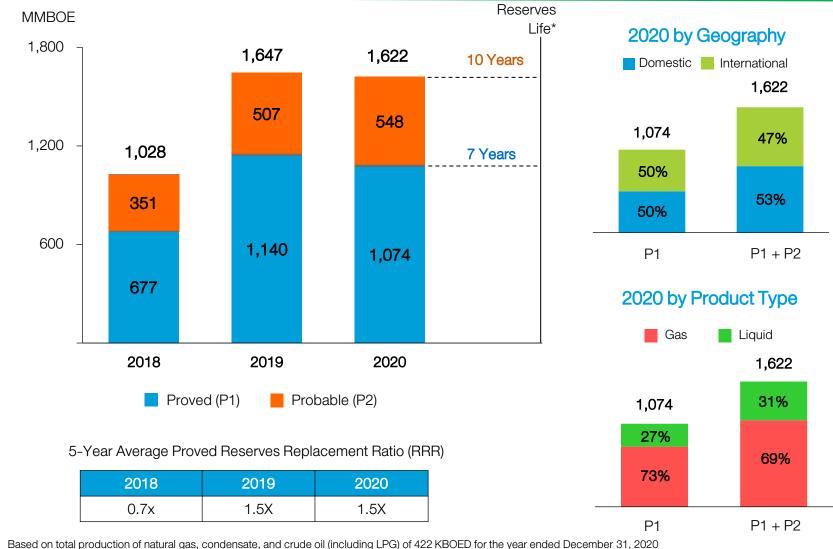


Achievement Targets in 2030

Reserves at the Year-end 2020 (not including Oman Block 61)



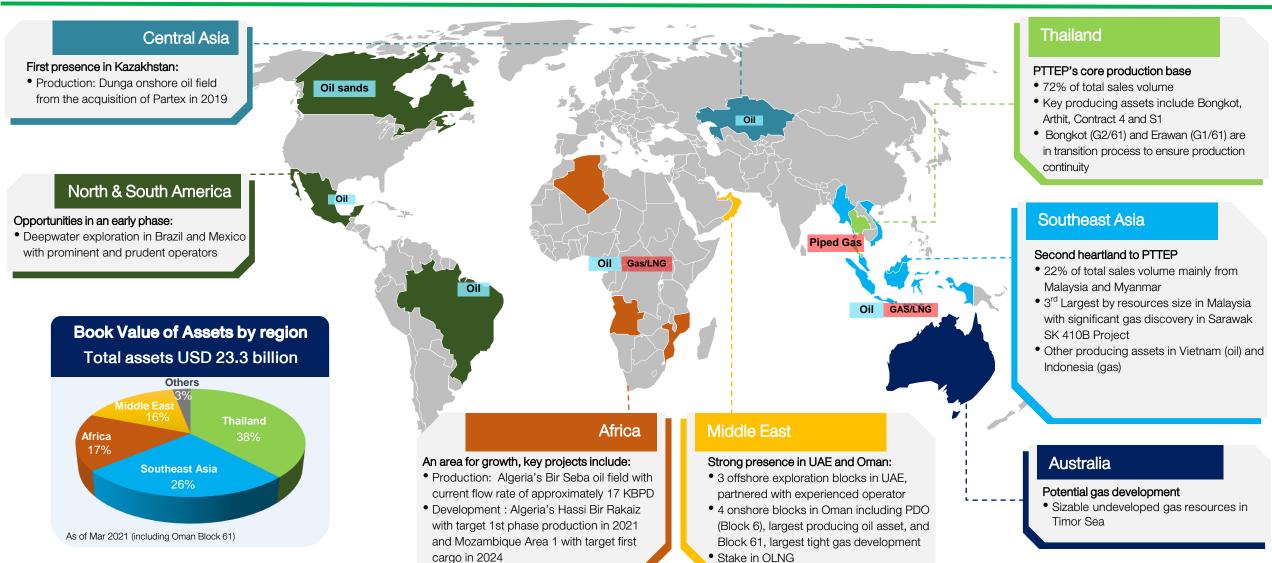




Figures include reserves from equity method

Diversified international portfolio

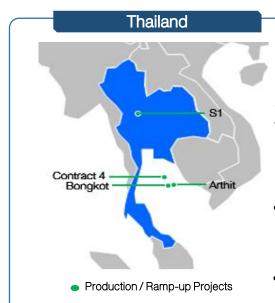




Thailand, Myanmar and Malaysia

"Coming Home" to maintain strong foundation with full expertise





Bongkot (66.6667% WI)

 Average natural gas and condensate sales volume of 930 MMSCFD and 22 KBPD in Q1/2021

S1 (100% WI)

 The largest onshore crude oil production field in Thailand with Q1/2021 average crude oil sales volume of 28 KBPD

Arthit (80% WI)

 Average sales volume in Q1/2021 was 243 MMSCFD of natural gas and 11 KBPD of condensates

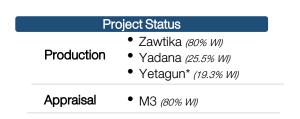
Contract 4 (60% WI)

 Average sales rate of 420 MMSCFD for natural gas and 16 KBPD for condensate in Q1/2021

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 335 MMSCFD in Q1/2021



Note: Yetagun production has been temporarily ceased until further notice due to depletion of gas production at the field

Malaysia Sabah K Sabah K Sabah K Sabah Sabah SK438 SK300 & SK311 SK300 & SK311

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 Q1/2021 was 29* KBPD of crude oil and 29* MMSCFD of natural gas

SK309 and SK311 Project : (59.5% WI)

For East Patricia field (42% WI)

 Average production volume in Q1/2021 was 164* MMSCFD of natural gas and 17* KBPD of condensates and crude

Block H Project:

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

- First gas completed early February 2021 with average production volume in Q1/2021 at 81 MMSCFD of natural gas
- Full capacity at 270 MMSCFD

Exploration

Sarawak SK410B Project (42.5% WI)

- Multi TCF significant discovery
- Expected Final Investment Decision (FID) announcement in 2022

Sarawak SK417 and Sarawak SK405B projects

 New Petroleum discoveries with additional well drilling to assess upside potential

For Block K, gross production is net off utilization

Note: WI - working interest

Other South East Asia countries

Expanding foothold in the region

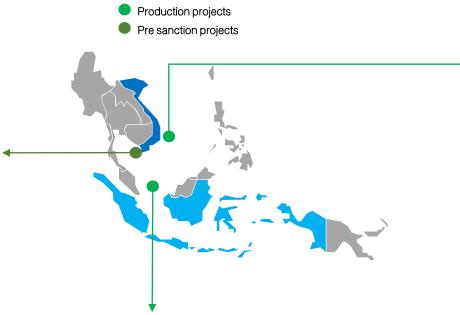


Vietnam and Indonesia



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 2024, and ramp up to full capacity of 490 MMSCFD





Natuna Sea A (11.5% WI)

 Average sales volume of natural gas was 238 MMSCFD in Q1/2021



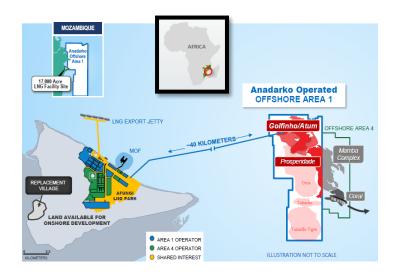
Vietnam 16-1 (28.5% WI)

- Average sales volume of crude oil was 12 KBPD in Q1/2021
- The project is preparing the drilling of additional development wells in order to maintain the production level in 2021.

Mozambique Area 1

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 13.1 MTPA capacity

Next milestones



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

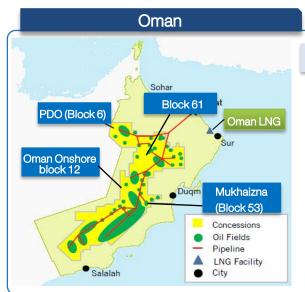


1st Cargo expected 2024

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 volume: 624,314 BPD (69% of Oman production)
- Operated by Petroleum Development of Oman (Joint Operating Company)

Mukhaizna (Block 53)

- Largest single onshore producing field in Oman
- Oil production volume:
 94,227 BPD
 (10% of Oman production)
- Operated by Occidental Petroleum (47% interest)

Block 61

- Largest tight gas development in Middle East
- Gas production capacity: 1,500 MMSCFD
- Operated by BP Exploration (Epsilon) Limited (40% interest)

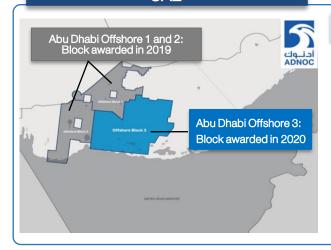
Block 12

- 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 1,2 and 3

- 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 2020
- 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
- Operated by ADNOC (68% interest)



America: Mexico and Brazil



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

Deep Water Brazil



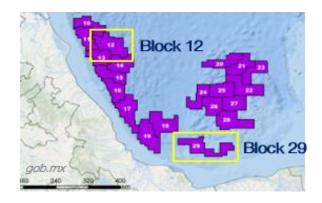
Barreirinhas AP1

- 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
- Currently waiting for exploration wells drilling permit from the government

BM-ES-23

- Acquired 20% interest from Shell in Q3 2014
- Partnered with Petrobras (65%, operator) and INPEX (15%)
- Currently evaluating the petroleum potential for further development

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 evaluating petroleum potential and preparing for an exploration well drilling in 2021

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 appraisal plan and exploration plan were approved by the Mexican regulators (CNH) on 25 March 2021.
- Preparing for exploration well and appraisal drilling.

Project information 1/5



			PTTEP's Partners Q1 2021 Average Sales Volume **		Sales Volume **	· · · · · · · · · · · · · · · · · · ·			
	Project	Status*	Phase	Share	(as of Ap	oril 2021)	Gas (MMSCFD)	Liquid (KBPD)	Q1 2021 Key Activities
<u>Tha</u>	iland and JDA								
1	Arthit	OP	Production	80%	Chevron MOECO	16% 4%	243	11	Ensure gas deliverability level at DCQ*** Drill development wells
2	B6/27	OP	Production	100%			-	-	Prepare for decommissioning activities
3	B8/32 & 9A	٦V	Production	25.001%	Chevron MOECO KrisEnergy Palang Sophon	51.66% 16.71% 4.63% 2%	49	14	Drill development wells Reuse wellhead platform study
4	Bongkot	OP	Production	66.6667%	TOTAL	33.3333%	927	22	Drill development wells Maintain production level as plan Carry out wells plug and abandonment and prepare for non-transferred wellhead platforms decommissioning
5	Contract 3 (Formerly Unocal III)	JV	Production	5%	Chevron MOECO	71.25% 23.75%	488	25	Prepare for decommissioning activities
6	Contract 4 (Formerly Pailin)	JV	Production	60%	Chevron MOECO	35% 5%	413	16	Ensure gas deliverability level at DCQ*** Drill development wells Topside reuse
7	E5	JV	Production	20%	ExxonMobil	80%	8	-	Ensure gas deliverability level at DCQ***
8	G4/43	٦V	Production	21.375%	Chevron MOECO Palang Sophon	51% 21.25% 6.375%	1	4	Total Reuse for new platforms
9	G4/48	JV	Production	5%	Chevron MOECO	71.25% 23.75%	3	-	Prepare for decommissioning activities
10	L53/43 & L54/43	ОР	Production	100%		-	-	1	Maintain production plateau Explore for additional field potential i.e. new drilling well and EOR/IOR Prepare for decommissioning activities
11	PTTEP1	ОР	Production	100%		-	-	0.2	Maintain production plateau Explore for additional field potential i.e. new drilling well and EOR/IOR Prepare for decommissioning activities
12	S1	OP	Production	100%		-	8	Crude:28 KBPD LPG: 185 Ton/Day	 Drill development wells Maximize crude production as per 2021 target 10 years strategy road map is under preparation to ensure all focused strategic areas will be set up in the long term after PPE approval until 14 Mar 2031.
13	Sinphuhorm	OP	Production	55%	Apico**** ExxonMobil	35% 10%	98	0.3	Ensure gas deliverability Drill development well Negotiate and finalize new GSA key term

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

	Project Status Phase PTTER's Share Partners Q1 2021 Average Sales Volume ** Q1 2021 Key Activities									
	Project	Status*	Phase	PTTEP's Share	Partners (as of April 20)	21)	Q1 2021 Average Gas (MMSCFD)	e Sales Volume ** Liquid (KBPD)	Q1 2021 Key Activities	
The	iland and JDA				(as 01 April 201	21)	Gas (IVIIVISCED)	Liquia (KBPD)		
Ina	IIIang ang JDA		i						Re-visit resume production plan (current field potential is not economic	
14	L22/43	ОР	Production	100%	-		-	-	viable) Explore additional field potential Prepare for decommissioning activities	
15	MTJDA	JOC	Production	50%	Petronas-Carigali	50%	261	10	 Drill development wells Ensure gas deliverability level at DCQ*** 	
16	G9/43	OP	Exploration	100%	-					
17	G1/61 (Erawan)	OP	Exploration	60%	MP G2 (Thailand) Limited	l 40%	-	-	Awarded as an operator for Erawan field (Contract 1, 2 and 3) under PSC (after concession-end in 2022) Preparing all transitional works including construction of facilities, staff recruitment, Gas Sales Agreement, and related procurement activities, aiming for successful transition and gas production as per commitment.	
18	G2/61 (Bongkot)	ОР	Exploration	100%	-		•	-	Awarded as a sole operator under PSC (after concession-end in 2022/2023) Drill appraisal and exploration wells Installation new head platform	
Oth	ers SEA									
1	Malaysia	OP (except Gumusut- Kakap (GK) in Block K)	Production/ Exploration/ Development	6.4-80% (varied by permits)	Varied by perm	its	SK309 and SK311** 164 Block K** 30 Block H** 81	SK309 and SK311** 17 Block K** 29	Production projects(SK309 and SK311, Block K): infill development Block H: first gas in February 2021 Multiple discoveries: Sarawak SK410B, SK417 and SK405B Other exploration projects: drill exploration wells and perform 3D seismic activities	
2	Yadana	JV	Production	25.5%	TOTAL Chevron MOGE	31.24% 28.26% 15%	766	-	Drill production wells Ensure gas deliverability level at DCQ***	
3	Yetagun	JV	Production	19.3178%	Petronas-Carigali MOGE Nippon Oil	40.91018% 20.4541% 19.3178%	16	2	Temporary shutdown on 1 April 2021 due to insufficient natural gas for the minimum production.	
4	Zawtika (M9 & a part of M11)	OP	Production	80%	Myanma Oil and Gas Enterprise (MOGE)	20%	335	-	Some activities are delayed and process under difficulty due to the turbulence situation in Myanmar.	
5	Myanmar M3	OP	Exploration	80%	MOECO	20%	-	-	 Waiting for an approval of Field Development Plan (FDP) and PSC Supplementary. FEED/ Subsurface/ Surface studies Negotiate and Finalize GSA 	
6	Myanmar M11	OP	Exploration	100%	-		-	-	Waiting for final termination document from MOGE Leftover material transferring to MOGE in progress (slow progress due to current situation in Myanmar)	
7	Myanmar MD-7	OP	Exploration	50%	TOTAL	50%	-	-	Termination process in progress Leftover material transferring to MOGE in progress (slow progress due to current situation in Myanmar)	
8	Myanmar MOGE 3	OP	Exploration	77.5%	Palang Sophon MOECO WinPreciousResources	10% 10% 2.5%	-	-	Termination process in progress Leftover material transferring to MOGE in progress (slow progress due to current situation in Myanmar)	

Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship/ JV = PTTEP as Joint Venture Partner
 ** Sales volume stated at 100% basis/ For Malaysia project, gross production is net off unitization

^{***} DCQ = Daily Contractual Quantity

Project information 3/5



	5	04.4*	DI	DTTED! OF	Partners	Partners Q1 2021 Average Sales Volume **		e Sales Volume **	Q1 2021 Key Activities
	Project	Status*	Phase	PTTEP's Share	(as of April 202:	1)	Gas (MMSCFD)		
<u>Oth</u>	ers SEA								
9	Vietnam 9-2	JOC	Production	25%	PetroVietnam SOCO	50% 25%	13	2	Maintain production level Development drilling study support
10	Vietnam 16-1	JOC	Production	28.5%	PetroVietnam SOCO OPECO	41% 28.5% 2%	8	12	Maintain production level Drill development wells Under procurement process for Equipment and Services
11	Vietnam B & 48/95	JV	Exploration	8.5%	PetroVietnam MOECO	65.88% 25.62%	-	-	Negotiation process on commercial terms in order to push forward the Final Investment Decision (FID) The first production target at the end of 2024
12	Vietnam 52/97	JV	Exploration	7%	PetroVietnam MOECO	73.4% 19.6%	-	-	Negotiation process on commercial terms in order to push forward the Final Investment Decision (FID) The first production target at the end of 2024
13	Natuna Sea A	JV	Production	11.5%	Premier Oil KUFPEC Petronas Pertamina	28.67% 33.33% 15% 11.5%	238	2	Drill development wells FEED study: Start Anoa & Gajah Baru compressor project
Mid	dle East								
1	Abu Dhabi Offshore 1	JV	Exploration	30%	Eni Abu Dhabi	70%	-	-	Being evaluated for petroleum potential to support future exploration, including G&G report
2	Abu Dhabi Offshore 2	JV	Exploration	30%	Eni Abu Dhabi	70%	-	-	Preparation for exploration well which to be drilled in Q3/2021
3	Abu Dhabi Offshore 3	JV	Exploration	30%	Eni Abu Dhabi	70%	-	-	Signed the Concession Agreement with ADNOC in December 2020 Preparing the Appraisal plan of Pre-existing discovery which to be submitted to ADNOC for consideration
4	PDO (Block 6)	JOC	Production	2%	Government of Oman Shell Total	60% 34% 4%	-	624**	A part of Partex acquisition which was completed on 4 November 2019 Maintain production plateau Perform Development activities Drill exploration and appraisal wells
5	Mukhaizna	JV	Production	1%	Occidental OOCEP Indian Oil Mubadala	47% 20% 17% 15%	-	94**	A part of Partex acquisition which was completed on 4 November 2019 Maintain production plateau Drill exploration wells Perform Development activities
6	Block 12	JV	Exploration	20%	Total E&P Oman Block 12 B.V.	80%	-	<u> </u>	3D seismic reprocessing (original 3D) Preparing to drill an exploration well
7	Oman Block 61	٦V	Production	20%	BP Makarim Gas Development LLC PC Oman Ventures Limited (PETRONAS)	40% 30% 10%	91	4	Completed the acquisition on 23 March 2021

Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship / JV = PTTEP as Joint Venture Partner
 Sales volume stated at 100% basis / For PDO (Block 6) and Mukhaizna projects, gross production is net off unitization

Project information 4/5



	D. J. J.	04.4*	DI	DITTED!	Partners	Q1 2021 Averag	e Sales Volume **	Q1 2021 Key Activities
	Project	Status*	Phase	PTTEP's Share	(as of April 2021)		Liquid (KBPD)	1
Oth	er International							
1	PTTEP Australasia (PTTEP AA)	OP	Exploration	100%	-	-	-	 AC/RL7 (Cash Maple) and Orchid Field (AC/P54): under way to define proper direction in order to increase development opportunities Other exploration projects: G&G studies AC/L4: total block relinquishment
2	Mozambique Area 1	JV	Development	8.5%	Total, Mitsui, 26.5%, ENH, OVL 15%, OVRL & Oil India , Bharat	10% -	-	 First Cargo is expected by 2024 1st Debt drawdown in project Finance The Force Majeure has been declared by the operator for safety reason due to the security incident in Palma.
3	Algeria 433a & 416b (Bir Seba)	JOC	Production	35%		40% 25%	18	Drill development wells Production respect OPEC policy
4	Algeria Hassi Bir Rekaiz	OP	Development	24.5%		1.5% 51%	-	 Drilling development wells Expected first oil production for the initial phase of around 10,000-13,000 barrels per day (BPD) in 2021
5	Mariana Oil Sands	OP	Exploration	100%	-	-	-	Conduct well abandonment campaign and reclamation activities
6	Barreirinhas AP1	JV	Exploration	25%		65% 10% -	-	Waiting for exploration wells drilling permit from the government
7	Brazil BM-ES-23	JV	Exploration	20%		65% 15%	-	Evaluating the petroleum potential for development concept
8	Mexico block 12 (2.4)	٦V	Exploration	20%		60% 20%	-	 Geophysical survey has been performed for petroleum potential evaluation. Drilling Exploration wells
9	Mexico block 29 (2.4)	JV	Exploration	16.67%	PC Carigali Mexico 28.	30% 33% - 25%	-	 Completed drilling of 2 exploration wells in 2020 with success result. The appraisal plan and exploration plan were approved by the Mexican regulators (CNH) on 25 March 2021. Preparing for exploration well and appraisal drilling.

Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship/ JV = PTTEP as Joint Venture Partner
 Sales volume stated at 100% basis except for Algeria 433a & 416b (production volume)

Project information 5/5



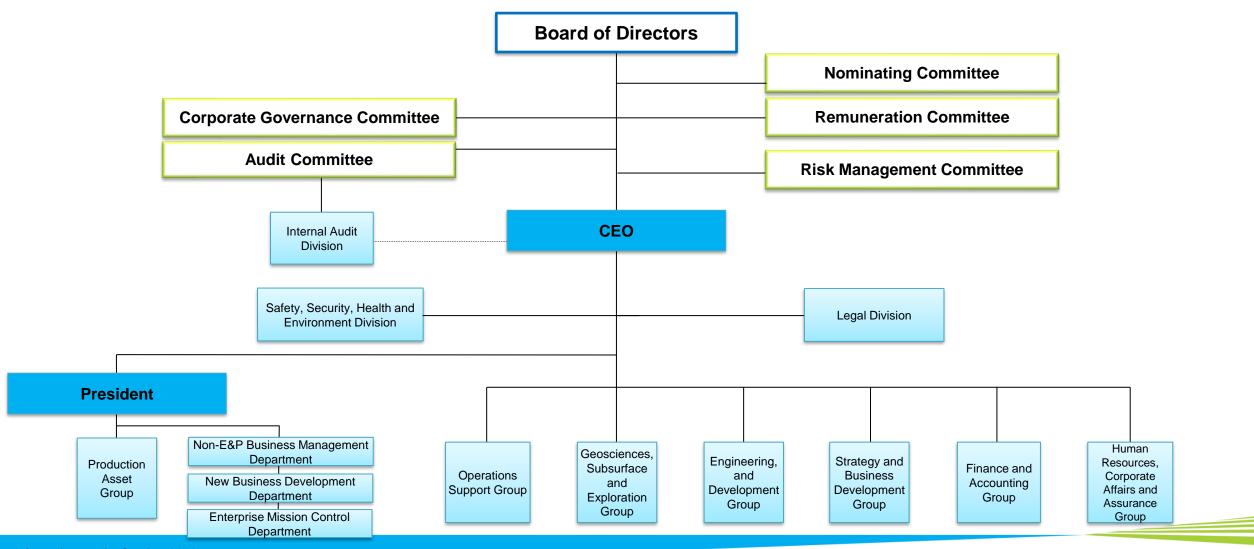
	Project	Status*	Phase	PTTEP's Share	Partners (as of April 2021)		Sales Volume ** Liquid (KBPD)	Q1 2021 Key Activities
Oth	er International							
10	Block 17/06	JV	Pre development	2.5%	Total 30 Sonangol 30 SSI 27.5 Acrep 5 Falcon Oil 5	% % %	-	Development phase FEED and Predevelopment Study and expect to be completed in mid year 2021
11	Potiguar	ОР	Production	50%	Petro reconcavo 50	-	0.2	Maintain production plateau
12	Dunga	JV	Production	20%	Total 60 OOCEP 20		11	continue to curb production per OPEC+ agreement to support price New well tie-ins to gather the system Procurement process for designing of Compression and Separation upgrade Designing of Sea water and Export Line
Mid	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	% % % % %		Power Project to maintain operations, cost optimization, and plant integrity.
2	ADNOC Gas Processing (AGP)	JV	On line	2%	ADNOC 68 Shell 15 Total 15	%		Perform Midstream operation activities Maintain production and plant integrity by upgrading firewater network and plant fire Improving plant's efficiency and capacity with plant debottlenecking

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

Organization structure

Ensuring transparency, integrity and good corporate governance





Supplementary Index : Ratio & Formula



Ratio	Formula Control of the Control 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