

Cautionary Statement



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.

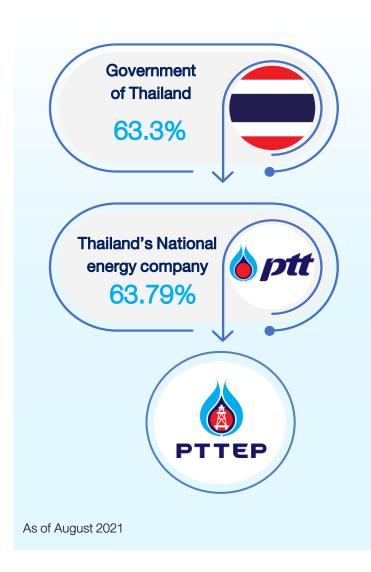
Probable Reserves - Probable reserves are defined as those unproved reserves which analysis of geological and engineering data suggests are more likely than not to be recoverable.



PTTEP - The Largest E&P company in Thailand



2016-2021







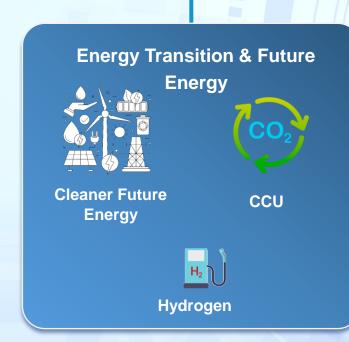
2014-2021

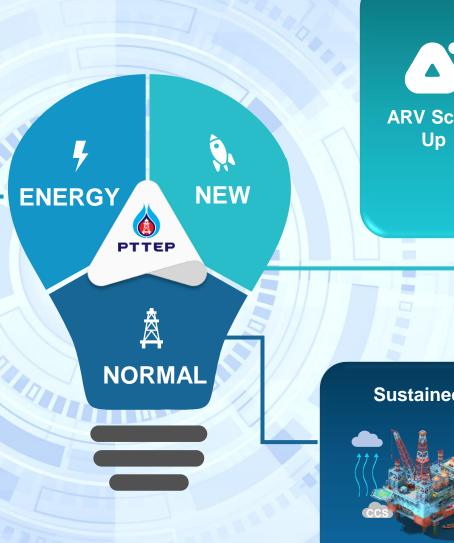


Energy New Normal













Sustain E&P Core Business



Grow business in Strategic Locations and focus on Gas



Reduce carbon emission through Carbon Capture Storage (CCS)



Oman and UAE

- Monetize Discovered Resources
- Accelerate Exploration Campaign
- Grow through Strategic Partner

Thailand, Malaysia, Myanmar

- TH Ensure domestic gas supply and OCA opportunity
- MY Synergy & Focus on LLB and Exploration
- MM Secure Western corridor gas and unlock potentials

CCS Technology

- Membrane & Solvent Extraction
- Sequestration into depleted reservoir



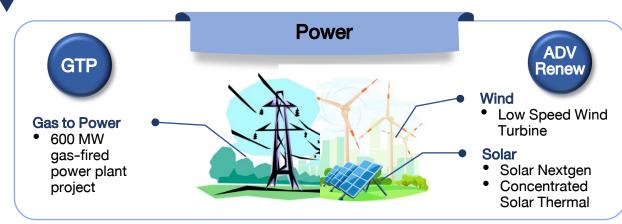


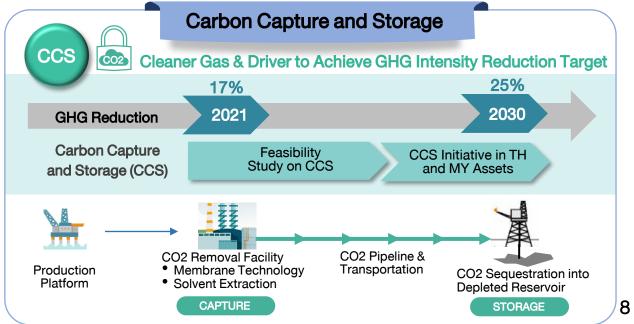
Beyond E&P Business Directions

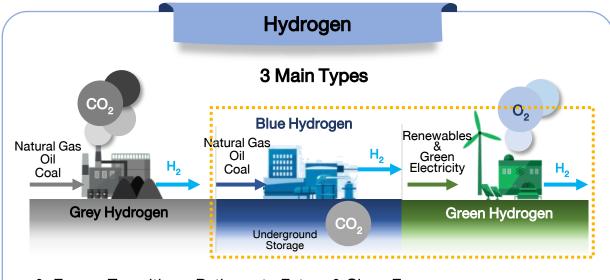


CCU, CCS, Power and Future Energy









- Energy Transition Pathway to Future & Clean Energy
- Opportunity Focus on production of Blue and Green Hydrogen



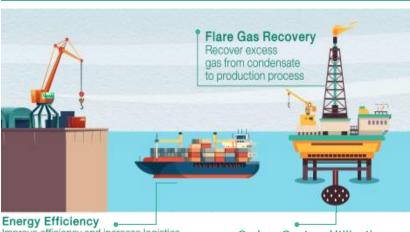
Journey towards Sustainability





GHG Reduction

~17% Reduction of GHG Emission Intensity as of Sep 2021 (compared to 2012 base year)



Improve efficiency and increase logistics operation efficiency by, for example, maximizing vessels' cargo deck space

Tran carbon dioxide in the process

Trap carbon dioxide in the process and inject it into suitable storage site

CCUS Study

CCU: Study potential CNTs to high value product and on-going engineering design of CNT prototype test unit

utilization to control marine gas oil consumption



CCS: On-going pre-Project study in GoT and subsurface study for reservoir modeling in Lang Lebah



Circular Model for E&P

Zero Waste to Landfill

Review waste disposal method to manage existing industrial waste to landfill.

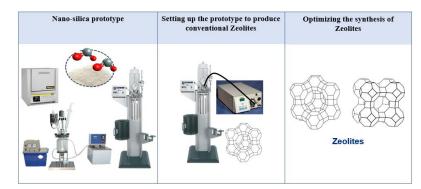
Topside Reuse Project

Completed the 1st topside relocation at ART in August 2021



Upcycling High Volume Waste

Sand to Zeolite: Successfully synthesized nano-silica from sand waste





Ocean for Life

Community Income Baseline Survey



• To support in the measurement of success for Ocean for Life towards the target of ≥ 50% Increase Community Income

- Completed community income baseline study of 11 communities in 9 provinces
- On process of result analysis

Baseline Study of Microplastics in the GoT

Completed 1st time microplastic baseline survey in offshore operations (4 rounds/year) at GBN, GBS and ART including Koh Tao, Koh Losin and Chumphon





Awards under Ocean for Life Strategy

- Until now, PTTEP CSR projects received 19 international Awards.
- The latest awards is the Gulf Sustainability Awards 2021 for H.T.M.S. Underwater Learning Site Project, in the category of Best Community Development.

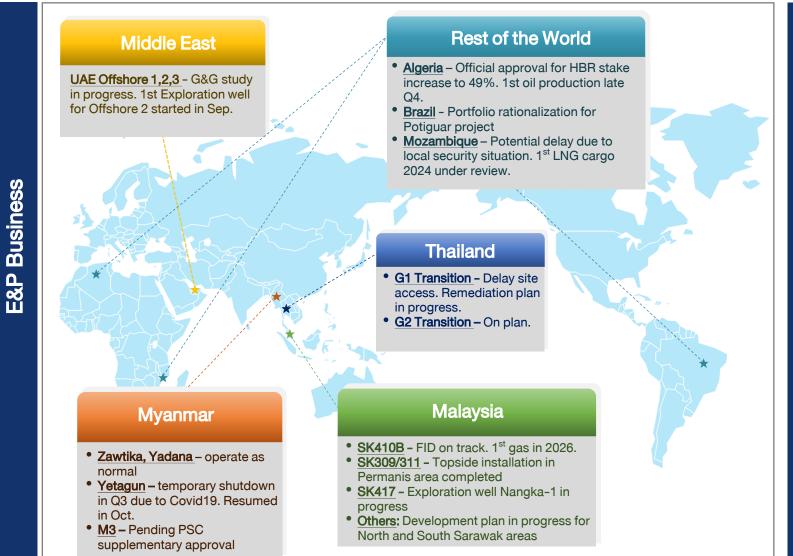






Operations Update





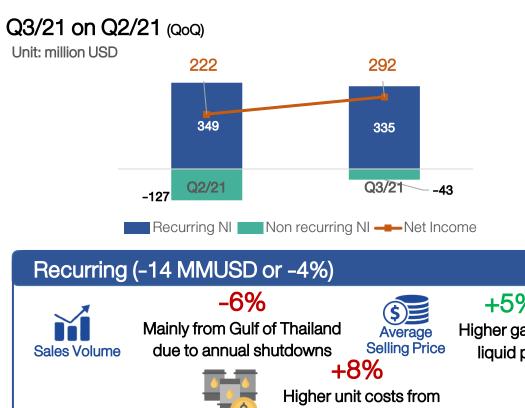




Results – Net Income

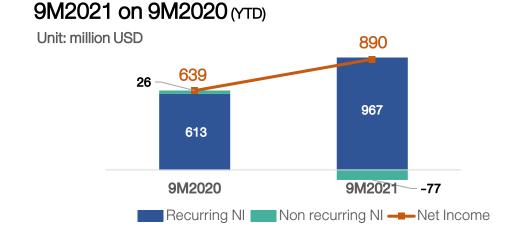


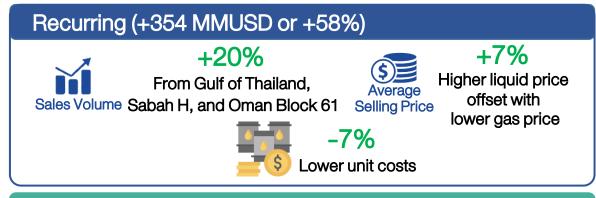
Strong performance YoY from volume growth, price increase and lower cost



+5% Higher gas and liquid price well write-off and OPEX





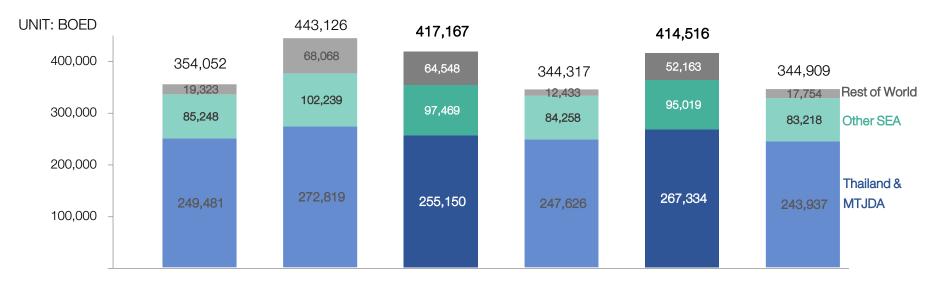




Results – Sales Volume & Average Selling Price



Softened volume QoQ from planned shutdown. ASP tracked higher energy prices.



	Volume Mix						
	Gas		Liquid				
	28%		28%				
8	72%		72%				
	Q2 2021		Q3 2021				

	9M 2021	Q3 20	Q3 21	Q2 21	2020	Product Price
6.50	5.66	6.22	5.76	5.59	6.27	Gas (\$/MMBTU)
41.14	63.40	41.82	69.16	63.98	41.55	Liquid (\$/BBL)
39.69	42.34	38.77	44.25	42.19	38.92	Weighted Avg. (\$/BOE)
41.45	66.35	42.88	71.68	67.02	42.27	Avg. Dubai (\$/BBL)
37.64	62.14	40.35	68.35	61.21	39.30	Avg. HSFO (\$/BBL) (High Sulphur Fuel Oil)
	42.34 66.35	38.77 42.88	44.25 71.68	42.19 67.02	38.92 42.27	Weighted Avg. (\$/BOE) Avg. Dubai (\$/BBL) Avg. HSFO (\$/BBL)



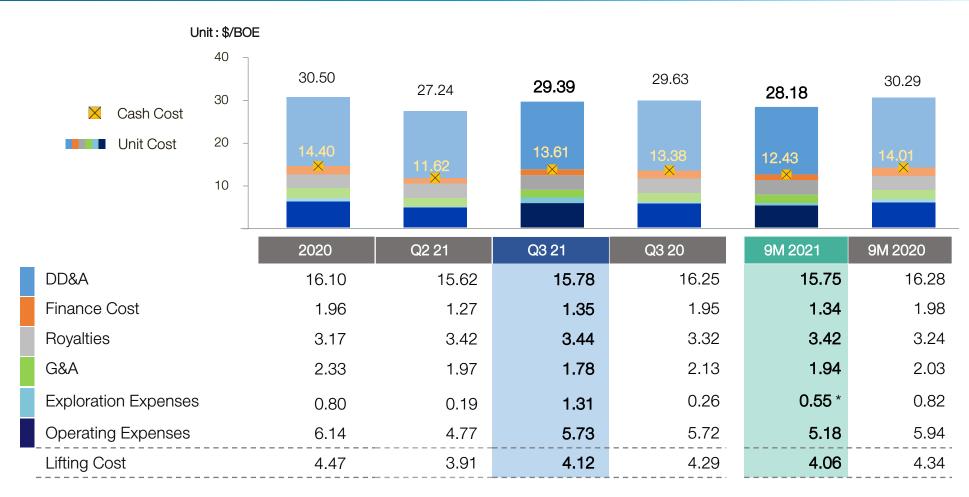
Note: Include sales volume from ADNOC Gas Processing (AGP)

Exclude Oman Block 61 deemed sales volume from tax payment by government

Results - Unit Cost



Rise in exploration well write-offs and OPEX from planned shutdowns



Note: * Exclude Exploration assets write-off in Brazil for Q1 21

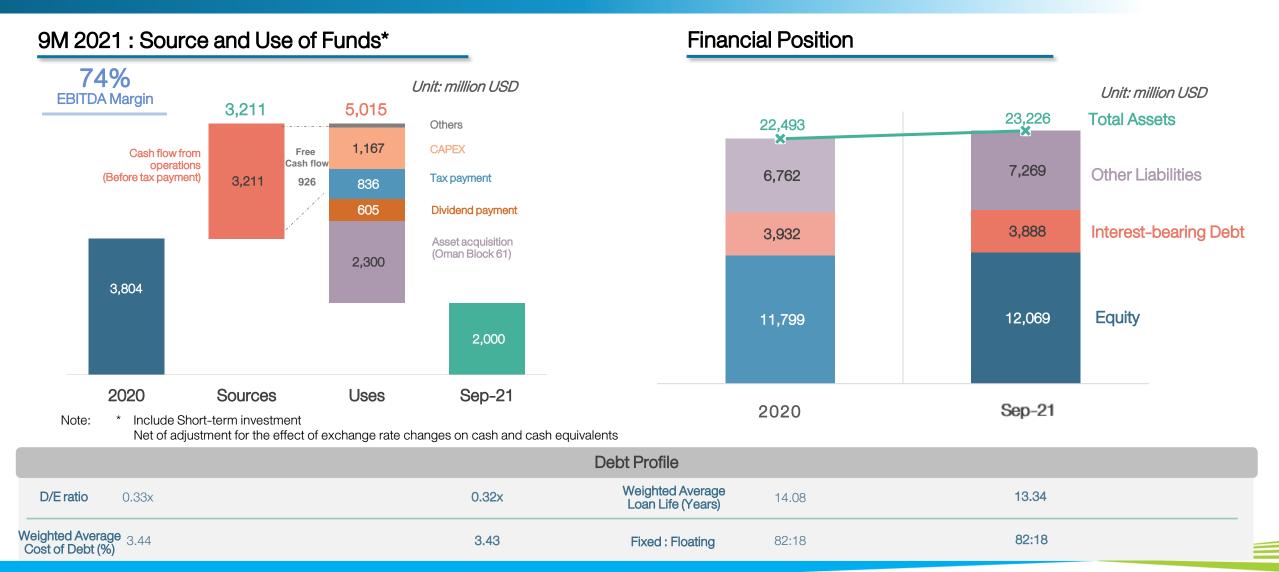
All Unit Cost shown above <u>exclude</u> costs related to new business

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

Results – Cashflows and Financial Position



Solid position despite M&A payments



Financial Outlook



2021 Guidance

Average Sales Volume*

KBOED

~417

Average Gas Price**

USD/MMBTU

~5.7

Unit Cost

USD/BOE

~28-29

EBITDA Margin

% of Sales Revenue



Note:

- * Include sales volume from ADNOC Gas Processing (AGP)
- ** Based on average Dubai oil price in 2021 at 67.2 \$/BBL

Credit Ratings - Stable

International



FitchRatings BBB+ / Stable BBB stand-alone rating

Moody's Baa1 / Stable Baa2 stand-alone rating

National



Dividend Payment History













21-23

Supplementary information

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Ratio and Formula	40

Financial Results Q3/2021

Results – Net Income



Unit: million USD

								minion osb
Statements of Income	Q3 21	Q2 21	%QoQ	Q3 20	%YoY	9M21	9M20	%YTD
Total Revenues	1,784	1,768	1%	1,305	37%	5,331	4,082	31%
Sales (1)	1,744	1,729	1%	1,228	42%	4,864	3,751	30%
Sales Volume (BOED) (2)	417,167	443,126	(6%)	344,317	21%	414,516	344,909	20%
Sales Price (US\$/BOE)	44.25	42.19	5%	38.77	14%	42.34	39.69	7%
Gain from a bargain purchase	-	-	_	_	_	350	-	100%
Others (3)	40	39	3%	77	(48%)	117	331	(65%)
Total Expenses	1,499	1,548	(3%)	1,080	39%	4,453	3,459	29%
Major Expenses:								
Operating Expenses	220	193	14%	181	22%	586	561	4%
Exploration Expenses	50	7	>100%	8	>100%	207	78	>100%
G&A	72	83	(13%)	69	4%	229	197	16%
DD&A	606	629	(4%)	515	18%	1,782	1,538	16%
Loss on Financial Instruments	5	125	(96%)	-	>100%	228	_	100%
Impairment Loss on Assets	-	-	-	47	(>100%)	-	47	(100%)
Income Tax Expenses	326	321	2%	140	>100%	839	524	60%
Share of profit (loss) from associates and JV	7	2	>100%	5	40%	12	16	(25%)
Net income	292	222	32%	230	27%	890	639	39%
Recurring Net Income	335	349	(4%)	195	72%	967	613	58%
Non-recurring Net Income	(43)	(127)	66%	35	(>100%)	(77)	26	(>100%)
Non-recurring Net income breakdown:								
Oil Price Hedging	(41)	(141)	32%	10	(>100%)	(289)	150	(>100%)
Tax from Effect of FX	(2)	-	(100%)	(2)	-	(11)	(105)	90%
Effect from FX and others	1	14	(93%)	27	(96%)	18	28	(36%)
Impairment Loss on Assets	-	_	-	-	_	-	(47)	100%
Exploration assets write-off	-	-	-	-	-	(145)	=	(100%)
Gain from a bargain purchase	-	-	-	_		350	=	100%

Note:

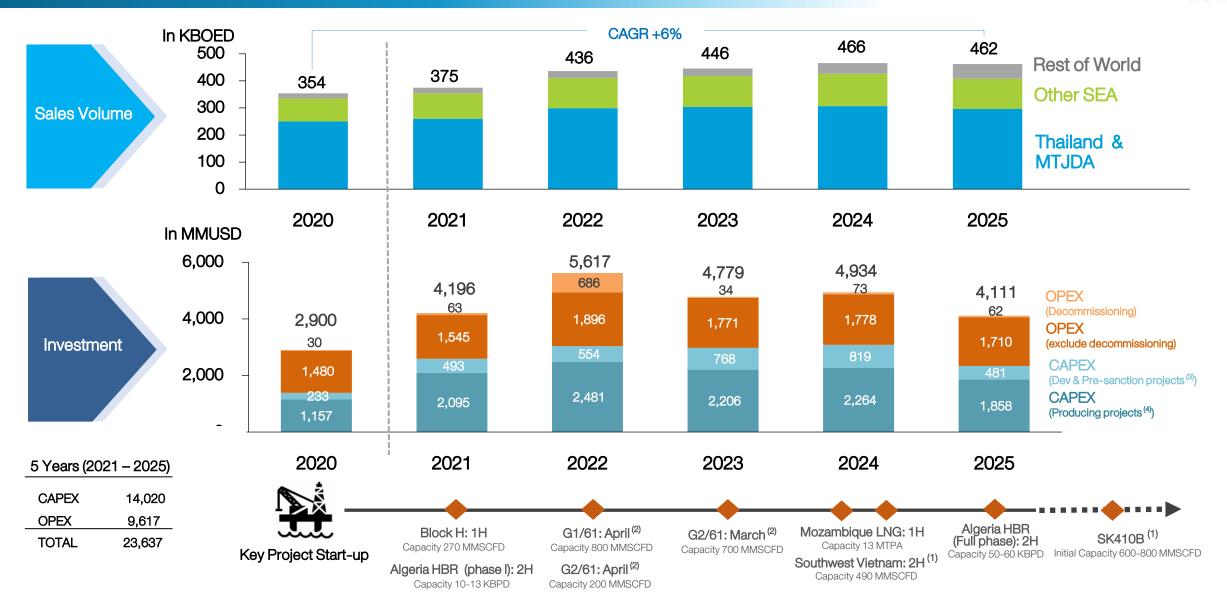
⁽¹⁾ Include Oman Block 61 deemed sales revenues from tax payment by government

⁽²⁾ Exclude Oman Block 61 deemed sales volume from tax payment by government

⁽³⁾ Consisted of Revenue from Pipeline, Gain from FX, Forward Contract, and Gain from Oil price Hedging



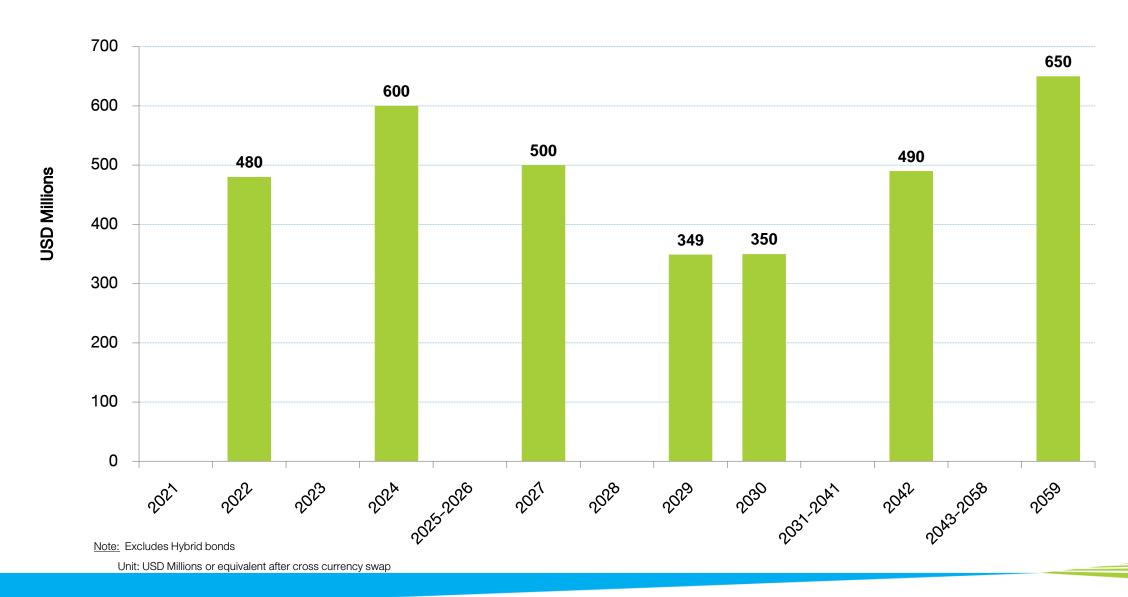
Maximize value of existing assets, accelerate G1/G2 transitions & maintain key milestones for key projects



Debt Maturity Profile

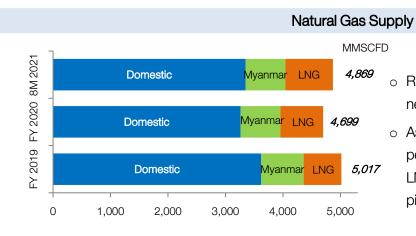
As of September 2021







Thailand Energy Overview



- Recovering energy demand, which rebounded to nearly the same level pre COVID-19
- As of August 2021, compared with the same period of last year: Higher domestic supply, and LNG imports with a slight decline from Myanmar piped gas due to natural field potential

Natural Gas Consumption Electricity Generation MMSCFD GWH 8M 2021 8M 2021 4,518 141,412 Electricity Industry **GSP** 54% FY 2020 FY2020 Electricity Industry GSP 4,368 55% 205,995 2019 FY2019 Electricity Industry GSP 4,762 57% 212.050 1,000 2.000 3.000 4.000 5,000 Natural Gas Hydro Electricity Coal & Lignite Imported Renewable Energy

Exchange Rate Movement (USD/THB)



Consensus on the exchange rate mostly depends on

- o Thailand's general economic recovery in particular from the tourism sector
- Covid-19 infection containment in Thailand after easing of tourism restrictions and general lockdown measures
- Central bank monetary policy tapering timeline and interest rate adjustment schedule of Bank of Thailand and the Federal Reserve

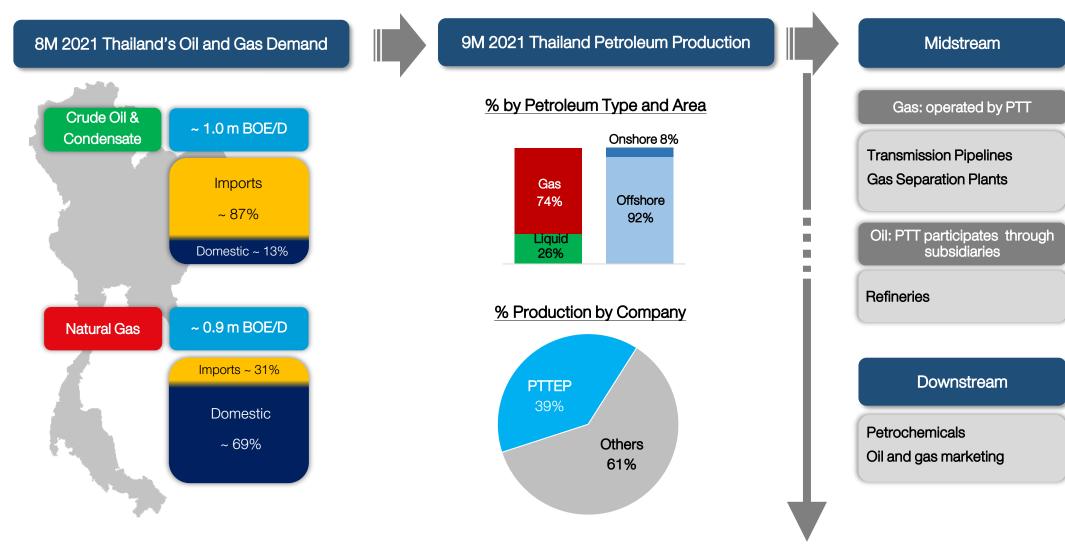
Source: Bank of Thailand, Bloomberg

Forecast based on Bloomberg Consensus as of 4 October 2021

Thailand's Energy Value Chain

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

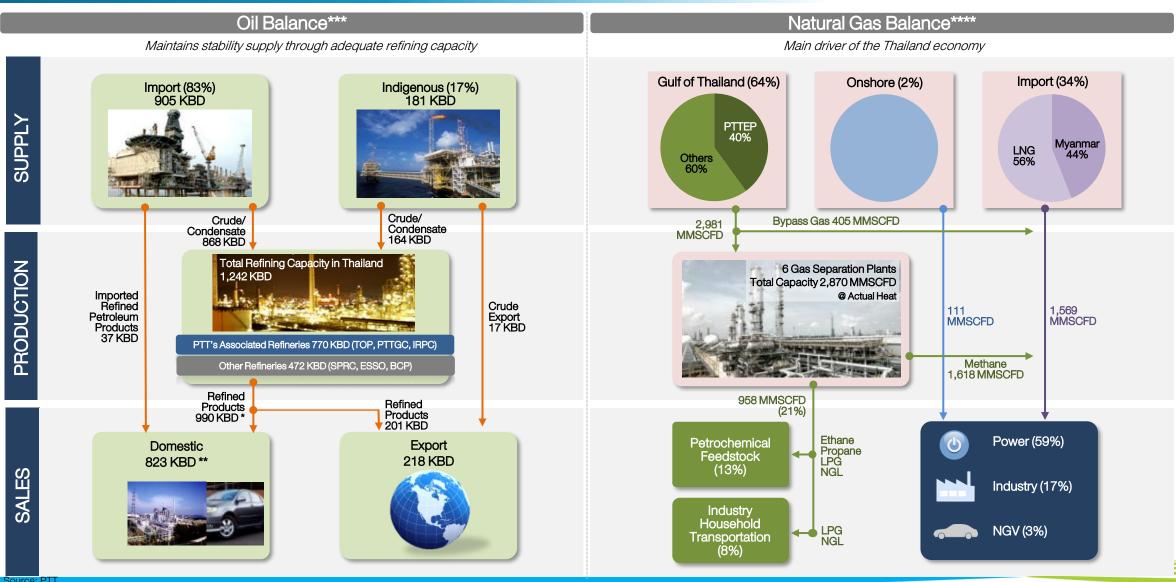




Source: Energy Policy and Planning Office (EPPO) and Department of Mineral Fuels (DMF)

Thailand's Oil and Gas Balance





Refined product from refineries = 899 KBD, including domestic supply of LPG from GSPs and Petrochemical Plants = 91 KBD

** Not included Inventory

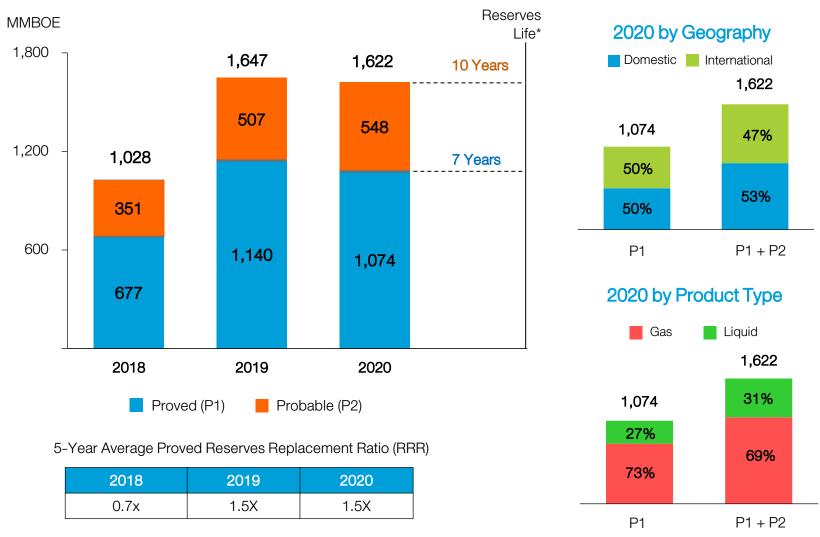
Information as of 8M21

**** Information as of 6M21

MMSCFD @ Heating Value 1,000 Btu/ft3



Sustained reserve life at over 5 years target



- Based on total production of natural gas, condensate, and crude oil (including LPG) of 422 KBOED for the year ended December 31, 2020
- Figures include reserves from equity method

Diversified international portfolio

Oil sands





First presence in Kazakhstan:

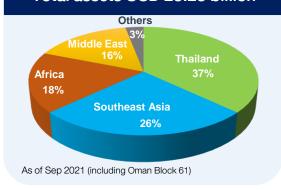
 Production: Dunga onshore oil field from the acquisition of Partex in 2019

North & South America

Opportunities in an early phase:

 Deepwater exploration in Brazil and Mexico with prominent and prudent operators

Book Value of Assets by region Total assets USD 23.23 billion



Africa

Gas/LNG

An area for growth, key projects include:

- Production: Algeria's Bir Seba oil field with current flow rate of approximately 16 KBPD
- Development: Algeria's Hassi Bir Rakaiz with target 1st phase production in Q4 2021 and Mozambique Area 1 project with first cargo LNG target in 2024*.

Thailand

PTTEP's primary operational base

- 64% of total sales volume (9M2021)
- Key producing assets include Bongkot, Arthit. Contract 4 and S1
- Transition of operations for G1/61 (Erawan) and G2/61 (Bongkot) are in process to ensure production continuity under new PSCs

Southeast Asia

Piped Gas

Middle East

Stake in OLNG

Strong presence in UAE and Oman:

• 3 offshore exploration blocks in UAE,

partnered with experienced operator

• 4 onshore blocks in Oman including PDO

Block 61, largest tight gas development

(Block 6), largest producing oil asset, and

Second heartland to PTTEP

- 23% of total sales volume, mainly from Malaysia and Myanmar (9M2021)
- Recent multiple petroleum discoveries in Malaysia formed fundamental for cluster development potential
- Other producing assets in Vietnam (oil) and Indonesia (gas)

Australia

Potential gas development

 Sizable undeveloped gas resources in Timor Sea

28

Thailand, Myanmar and Malaysia

"Coming Home" strategy to maintain strong foundation and utilize expertise



Myanmar

- 3 producing gas fields supplying gas to both Thailand and Myanmar: Yadana, Yetagun and Zawtika
- Operate Zawtika project, start up in March 2014 with current gas supply of 336 MMSCFD for 9M2021

Project Status

Production

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

Appraisal • M3 (80% WI)

Thailand

Production / Ramp-up Projects

Bongkot (66.6667% WI)

Average natural gas and condensate sales volume of 887 MMSCFD and 23 KBPD in 9M2021

S1 (100% WI)

The largest onshore crude oil production field in Thailand with 9M2021 average crude oil sales volume of 27 KBPD Arthit (80% WI)

Average sales volume in 9M2021 was 240 MMSCFD of natural gas and 12 KBPD of condensates

Contract 4 (60% WI)

Average sales rate of 401 MMSCFD for natural gas and 16 KBPD for condensate in 9M2021



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 9M2021 was 24* KBPD of crude oil and 25* MMSCFD of natural gas

SK309 and SK311 Project: (59.5% WI)

For East Patricia field (42% WI)

 Average production volume in 9M2021 was 164* MMSCFD of natural gas and 15* KBPD of condensates and crude

Block H Project:

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

- First gas delivered in early February 2021 with average production volume in 9M2021 at 179 MMSCFD of natural gas
- Full capacity at 270 MMSCFD

For Block K, gross production is net off utilization

Exploration

Sarawak SK410B Project (42.5% WI)

- Multi TCF gas discovery in Lang Lebah Field
- Expected to reach Final Investment Decision (FID) in 2023

Sarawak SK417 and Sarawak SK405B projects

 New Petroleum discoveries with additional well drilling to assess upside potential

Note: WI - working interest

Other Southeast Asia countries

Expanding foothold in the region



Vietnam



Vietnam 16-1 (28.5% WI)

- Average sales volume of crude oil was 12 KBPD in 9M2021
- The project is preparing the drilling of additional development wells in order to maintain the production level in 2021



Southwest Vietnam

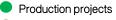
- Vietnam B & 48/95 (8.5% WI)
- Vietnam 52/97 (7% WI)
- Field Development Plan was approved by Government
- The project is currently in the negotiation process on commercial terms to put forward FID, with production capacity approximately 490 MMSCFD

Indonesia

Natuna Sea A (11.5% WI)

- Average sales volume of natural gas was 201 MMSCFD in 9M2021
- The project has completed drilling 1 well in October 2021 and another well is in progress.





Pre sanction projects

The Middle East

Building strategic presence and gaining access to Upstream oil & gas asset as well as Midstream Complex



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)



Abu Dhabi offshore 3 Abu Dhabi PDO Offshore 1 U.A.E. (Block 6) OLNG Abu Dhabi OMAN Block 61 Offshore 2 Mukhaiza (Block 53) **Oman Onshore** block 12 *Block awarded in 2019 **Block awarded in 2020 Production phase Exploration phase Midstream

Oman

PDO (Block 6)

- Largest asset covering around 1/3 of the country
- Long-life asset, produced only 15% of reserves in-place
- Average oil production volume of 621 KBPD for 9M2021
- Operated by Petroleum Development of Oman (Joint Operating Company)

Oman Onshore 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)

Mukhaizna (Block 53)

- Largest single onshore producing field in Oman
- Average oil production volume of 97 KBPD for 9M2021
- Operated by Occidental Petroleum (47% interest)

Oman Block 61

- Largest tight gas development in Middle East
- Gas and condensate production capacity of 1,500 MMSCFD and 69,000 BPD respectively
- Operated by BP Exploration (Epsilon) Limited (40% 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)

Note: ADNOC: Abu Dhabi National Oil Company

Mozambique Area 1

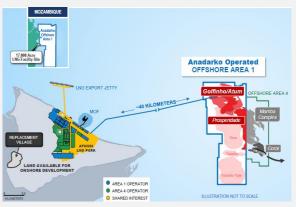
On the path of unlocking value from world class LNG asset





Mozambique

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

Project Finance (2/3 Project Financed)

Next milestones

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

1st Cargo expected 2024 *

America: Mexico and Brazil

Entry into high potential petroleum province at exploration stage



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.





Brazil

Deep Water

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

Exploration phase

Project information 1/5



	Project	Status*	Phase	PTTEP's		rtners	9M2021 Average		Q3 2021 Key Activities
	•	Status	Filase	Share	(as of Sep	tember 2021)	Gas (MMSCFD)	Liquid (KBPD)	Q3 2021 Rey Activities
Tha	iland and JDA								
1	Arthit	OP	Production	80%	Chevron MOECO	16% 4%	240	12	Ensure gas deliverability level at DCQ*** Drill development wells
2	B6/27	OP	Production	100%			-	-	Prepare for decommissioning activities Decommissioning Environmental Assessment (DEA) report has been approved by DMF on 8 July 2021.
3	B8/32 & 9A	JV	Production	25.001%	Chevron MOECO KrisEnergy Palang Sophon	51.66% 16.71% 4.63% 2%	48	14	Ensure deliverability of production volumes as nominated from the buyer
4	Bongkot	OP	Production	66.6667%	TOTAL	33.3333%	887	23	Drill development wells Maintain production level as planned 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%	463	25	Decommissioning activities
6	Contract 4 (Formerly Pailin)	JV	Production	60%	Chevron MOECO	35% 5%	401	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	JV	Production	21.375%	Chevron MOECO Palang Sophon	51% 21.25% 6.375%	1	3	Deliver production volumes as nominated from the buyer and oil production as planned
9	G4/48	JV	Production	5%	Chevron MOECO	71.25% 23.75%	2	0.1	Decommissioning activities
10	L53/43 & L54/43	OP	Production	100%		-	-	0.7	Maintain production plateau Explore for additional field potential i.e. new drilling well and EOR/IOR Prepare for decommissioning activities
11	PTTEP1	OP	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: 27 KBPD LPG: 188 MTon/Day	Maximize crude production by fully implemented the business plan and work activities as planned 10 years strategy roadmap is being submitted to the management committee to ensure all focused strategic areas will be set up in the long term until end of concession in year 2031
13	Sinphuhorm	OP	Production	55%	Apico**** ExxonMobil	35% 10%	90	0.3	Ensure gas deliverability Drill development well as planned Sinphuhorm new GSA was approved by Government

^{*} 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.

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	Project	Status*	Phase	PTTEP's	Partners	9M 2021 Average		Q3 2021 Key Activities
				Share	(as of September 2021)	Gas (MMSCFD)	Liquid (KBPD)	, , , , , , , , , , , , , , , , , , ,
<u>I ha</u>	iland and JDA	•				_	T	
14	L22/43	OP	Production	100%	-	-	-	Study to explore additional field potential Prepare for decommissioning activities
15	MTJDA	JOC	Production	50%	Petronas-Carigali 50%	248	8	Ensure gas deliverability level at DCQ***
16	G9/43	OP	Exploration	100%	-	-	-	Activity suspended
17	G1/61 (Erawan)	OP	Exploration	60%	MP G2 (Thailand) Limited 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 wells Installation new wellhead platforms and drill production wells Finalise Gas Sales Agreement and Prepare for seamless operation handover
<u>Oth</u>	ers SEA							
1	Malaysia	OP (except Gumusut- Kakap (GK) in Block K)	Production/ Exploration	6.4-80% (varied by permits)	Varied by permits	SK309 and SK311** 164 Block K** 25 Block H** 179	SK309 and SK311** 15 Block K** 24	SK309 and SK311: Pemanis Gas Development Topside Installation and South Acis Satellite infill oil development drilling Block K: SNP Development Drilling Block H: Maximize production at plateau 270MMSCFD after first gas in February 2021
2	Yadana	JV	Production	25.5%	TOTAL 31.24% Chevron 28.26% MOGE 15%	773	-	Drill 2nd production well New DCQ*** proposal and negotiation with PTT
3	Yetagun	JV	Production	19.3178%	Petronas-Carigali	10	0.7	Suspended the production due to Covid-19 situation and will resume its production in October
4	Zawtika (M9 & a part of M11)	OP	Production	80%	Myanma Oil and Gas Enterprise 20% (MOGE)	336	-	Some activities are delayed and process under difficulty due to the COVID-19 and political situation in Myanmar.
5	Myanmar M3	OP	Exploration	80%	MOECO 20%	-	-	Waiting for approval of PSC Supplementary FEED & OE and survey activities Gas Sales Agreement negotiation
6	Myanmar M11	OP	Exploration	100%	-	-	-	Received final termination agreement from MOGE Completed leftover material transferring to MOGE
7	Myanmar MD-7	OP	Exploration	50%	TOTAL 50%	-	-	Termination process in progress Completed leftover material transferring to MOGE
8	Myanmar MOGE 3	OP	Exploration	77.5%	Palang Sophon 10% MOECO 10% WinPreciousResources 2.5%	-	-	Received final termination agreement from MOGE Completed leftover material transferring to MOGE

^{*} 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



	Project	Status*	Phase	PTTEP's Share	Partners (as of September 2)	021)	9M 2021 Average Gas (MMSCFD)		Q3 2021 Key Activities
<u>Oth</u>	hers SEA								
9	Vietnam 9-2	JOC	Production	25%	PetroVietnam SOCO	50% 25%	14	4	Maintain production level
10	Vietnam 16-1	JOC	Production	28.5%	PetroVietnam SOCO OPECO	41% 28.5% 2%	7	12	Maintain production level Drilling operation for 3 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%	201	2	Completed drilling 1 well in Q3/2021 with another well drilling in process
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%	-	-	Commencement of 1 exploration well drilling
3	Abu Dhabi Offshore 3	JV	Exploration	30%	Eni Abu Dhabi	70%	-	-	G&G study is on-going
4	PDO (Block 6)	JOC	Production	2%	Government of Oman Shell Total	60% 34% 4%	-	642**	Normal operations with daily production around 600 KBD
5	Mukhaizna	JV	Production	1%	Occidental OOCEP Indian Oil Mubadala	47% 20% 17% 15%	-	99**	Normal operations with daily production around 95 KBD
6	Oman Onshore Block 12	JV	Exploration	20%	Total E&P Oman Block 12 B.V.	80%	-	-	3D seismic reprocessing (original 3D) in progress Preparation of 3D seismic acquisition (new 3D)
7	Oman Block 61	JV	Production	20%	BP Makarim Gas Development LLC PC Oman Ventures Limited (PETRONAS)	40% 30% 10%	929	41	Completed production ramp up as planned

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



	5	2 1 1 #			Partners	9M 2021 Average	e Sales Volume **	
	Project	Status*	Phase	PTTEP's Share	(as of September 2021)		Liquid (KBPD)	Q3 2021 Key Activities
Oth	er International							
1	PTTEP Australasia (PTTEP AA)	OP	Exploration	100%	-	-	-	AC/RL7 (Cash Maple) and Oliver (AC/RL12) Field: under way to define proper direction in order to increase development opportunities Tenacious and Oliver: On-going for well abandonment campaign Other exploration projects: G&G studies
2	Mozambique Area 1	JV	Development	8.5%	Total, Mitsui, 26.5%,20 ENH, OVL 15%, 10 OVRL & Oil India , 10%, 10	% -	-	First Cargo is expected by 2025 (Under further assessment) 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 Project management under FM and study of impacts Plan to resume the project after safety security
3	Algeria 433a & 416b (Bir Seba)	JOC	Production	35%	PetroVietnam 40 Sonatrach 25		16	Drill development wells Existing wells intervention Production respect OPEC+ policy
4	Algeria Hassi Bir Rekaiz	ОР	Development	49%	Sonatrach 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	ОР	Exploration	100%	-	-	-	-
6	Barreirinhas AP1	JV	Exploration	25%	Shell Brasil 65 Mitsui E&P Brasil 10		-	Waiting for exploration wells drilling permit from the government
7	Brazil BM-ES-23	JV	Exploration	20%	Petrobras 65 INPEX 15		-	Evaluating the petroleum potential for development concept
8	Mexico block 12 (2.4)	JV	Exploration	20%	PC Carigali Mexico 60 Ophir Mexico 20		-	Drilling exploration wells
9	Mexico block 29 (2.4)	JV	Exploration	16.67%	Repsol Mexico 30 PC Carigali Mexico 28.33 Wintershal DEA 25	% -	-	Completed drilling of 2 exploration wells in 2020 with successful result Completed drilling 2 wells in Q3 2021

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	9M 2021 Average		Q3 2021 Key Activities
	Project	Status	Filase	PTTEP 5 Stidle	(as of September 2021)	Gas (MMSCFD)	Liquid (KBPD)	Q3 2021 Rey Activities
Othe	er International							
10	Block 17/06	JV	Pre- development	2.5%	Total 30% Sonangol 30% SSI 27.5% Acrep 5% Falcon Oil 5%	-	-	Completed Begonia FEED study (in-house)
11	Potiguar	ОР	Production	50%	Petro reconcavo 50%	-	0.2	Divestment was announced on 30 July 2021, expect completion by October 2021.
12	Dunga	JV	Production	20%	Total 60% OOCEP 20%	2	12	Continue to curb production per OPEC+ agreement to support price Procurement process Compression, Separation upgrade and Flare package Engineering of Sea water pipeline
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%	-	-	Normal operations
2	ADNOC Gas Processing (AGP)	٦V	On line	2%	ADNOC 68% Shell 15% Total 15%	-	-**Q3	Perform midstream operation activities Maintain production and plant integrity with maintenance work as planned Completion of plant debottlenecking

[•] Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship/ / JV = PTTEP as Joint Venture Partner

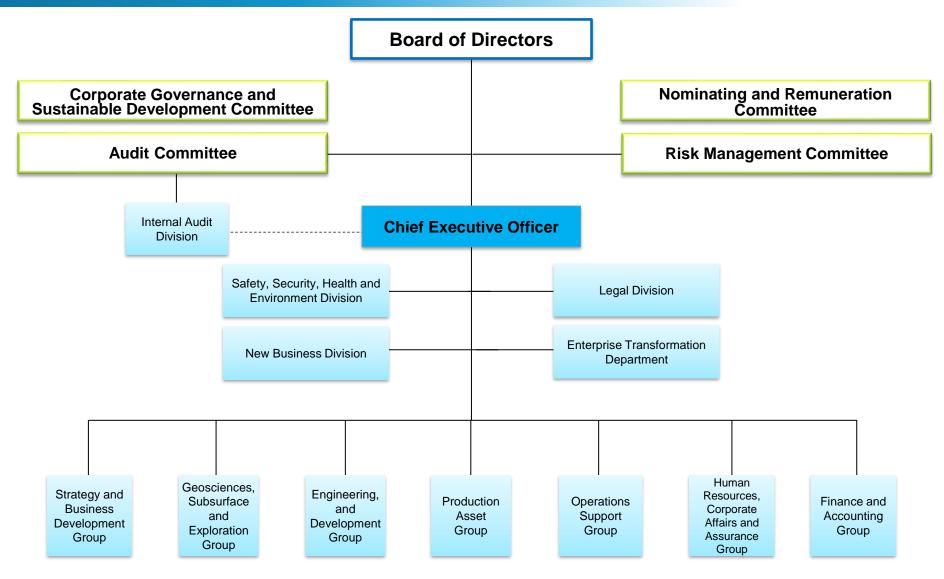
^{**} Sales volume stated at 100% basis

^{***} Products are propane, butane and naphtha.

Organization structure (as of 1 October 2021)

Ensuring performance excellence, transparency, and good corporate governance





Supplementary Index: Ratio & Formula



Ratio	Formula
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