

Member of Dow Jones Sustainability Indices

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Investor Presentation JP Morgan ASEAN Commodities Forum 8 March 2022

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.

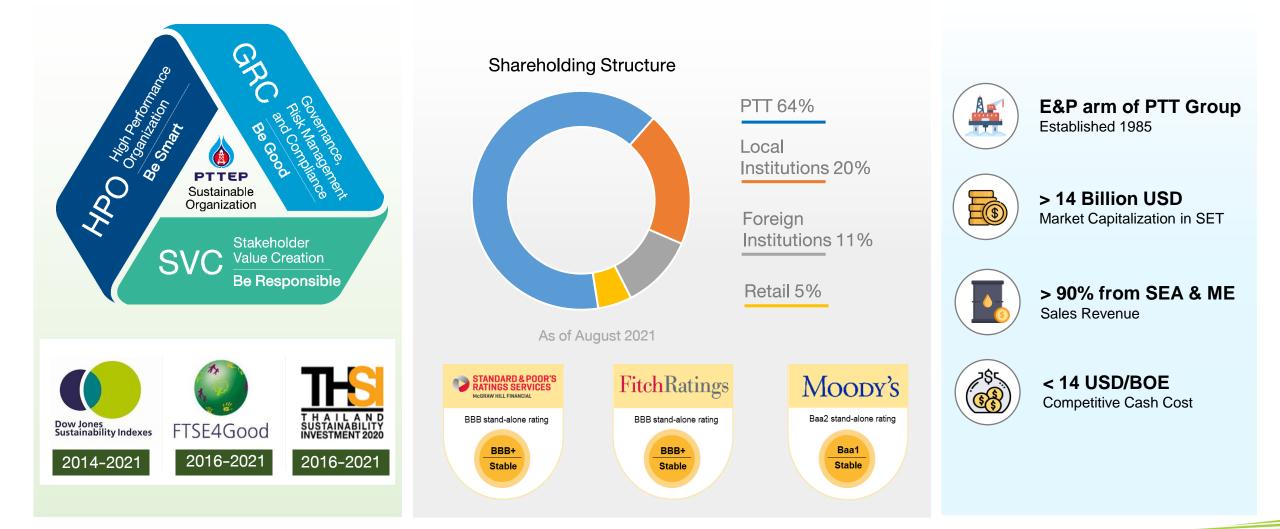
Proved Reserves - Proved reserves are defined as those quantities of petroleum which, by analysis of geological and engineering data, can be estimated with reasonable certainty to be commercially recoverable, from a given date forward, from known reservoirs and under current economic conditions, operating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



Corporate Introduction

PTTEP - The Largest E&P company in Thailand

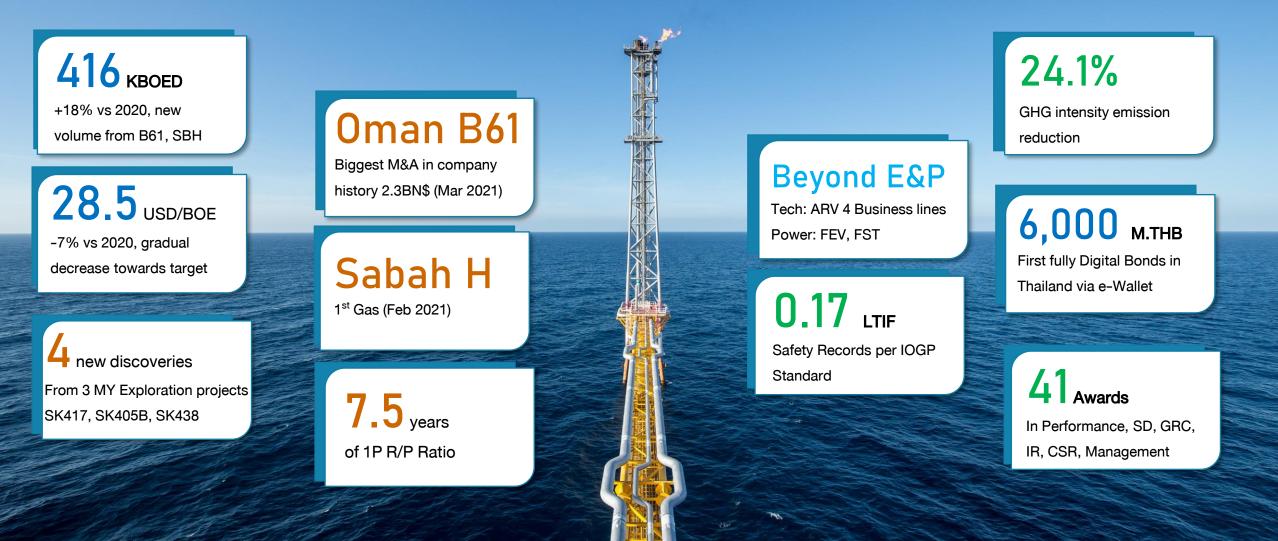






Business update

Operating Results 2021



Key Focus Areas 2022

Same R.		
	G1 & G2 <	Safe transition & accelerate ramp-up activities
-	Assets Monetization <	LLB FEED for FID 2023 Sarawak Clusters
	Exploration <	21 exploration and appraisal wells in 4 countries
	GHG & CCS	Emission intensity reduction and CCS rollout
	Net Zero	Target declaration by Q2/2022
	Diversification	ARV, G2P, CCU, Renewables, H2 study

Operations Update



Thailand

G1/61

- Site access Jan 22 for Operatorship Transfer
- Starting ~425mmscfd, then drop to 250-300mmscfd
- 8 platforms and 100+ Dev. wells required for ramp-up
- 24 months timeframe to reach PSC 800mmscfd

G2/61

- Assets Transfer Agreement signed in Q4/21
- On track for 800+mmscfd (including BKT sales vol.)

Arthit

 GSA supplementary signed, to increase DCQ to 280mmscfd (60mmscfd additional)

Malaysia

- MY 2021 Bid Round pending result in Q1/22
- LLB: Begin FEED in 2022 and prepare for FID in 2023

Myanmar

- All three fields operates normally
- YDN : TOTAL withdrawing
- YTG : Declining production per field life
- M3 and G2P : Prep work for development on-going

Mozambique

- Construction resume expected in 2022
- First cargo in late 2025, subject to local security situation

UAE

- Area C farm-in expecting Govt. approval Q1/22
- Exploration campaigns on-going

Algeria

• HBR Phase 1, expected First oil in 1st half of 2022



Sustainability & ESG Update

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ESG Targets & Progress FY2021





Scaled-Up Center (RASC) in

Local Community Income



29.5% in domestic offshore operations to achieved Net

Completed baseline of coral

by multi-spectral drone

bleaching at Koh Mannai, Rayong

Increase in Community Income for local community that participated in our program.

GOT [ART] - Pre-Project study phase

LLB - Completed subsurface study for reservoir modeling

prototype test unit at S1.

CCS:



Carbon Nanotube

Rayong.



Sand to Zeolite: Successfully synthesized prototype zeolite from nano-silica.

ESG Disclosure & Ratings

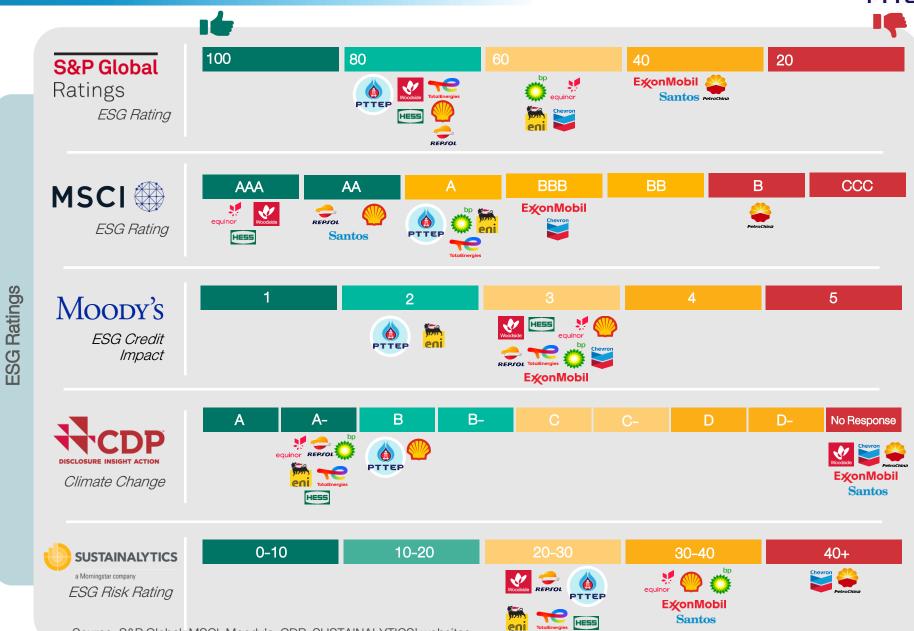






ESG Standards

Oil and Gas Sector Disclosures (OGSD)



Santos

Source: S&P Global, MSCI, Moody's, CDP, SUSTAINALYTICS' websites

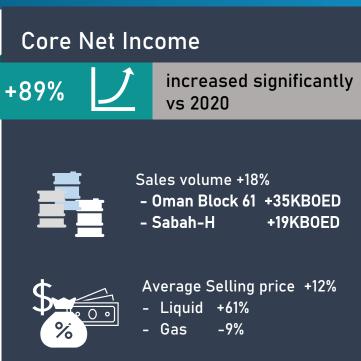


Financial results 2021 & Outlook 2022

III ITE - - ONAL

Key items impacting 2021 Net Income



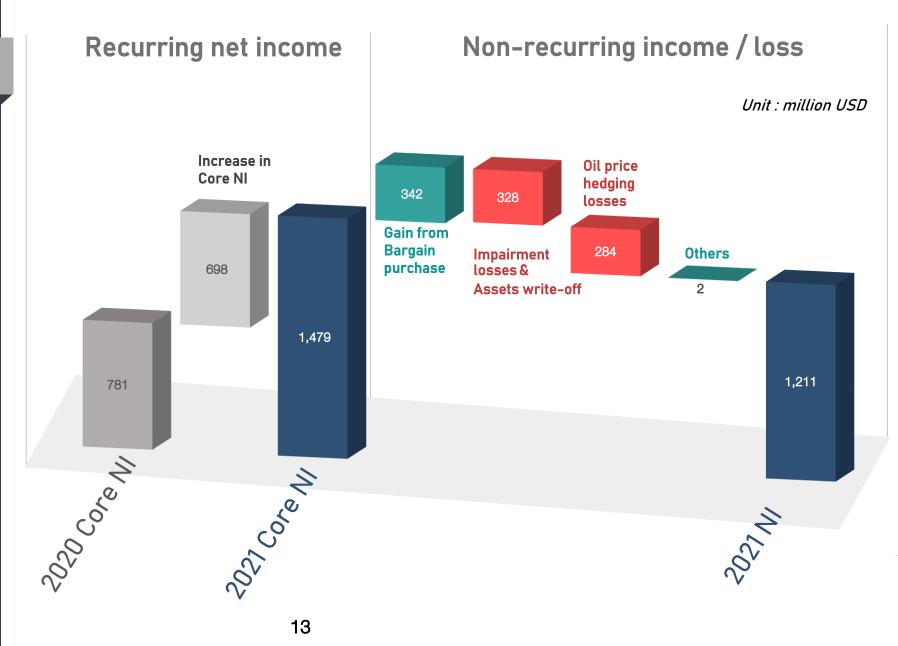




Bongkot Decommissioning Liabilities reduction



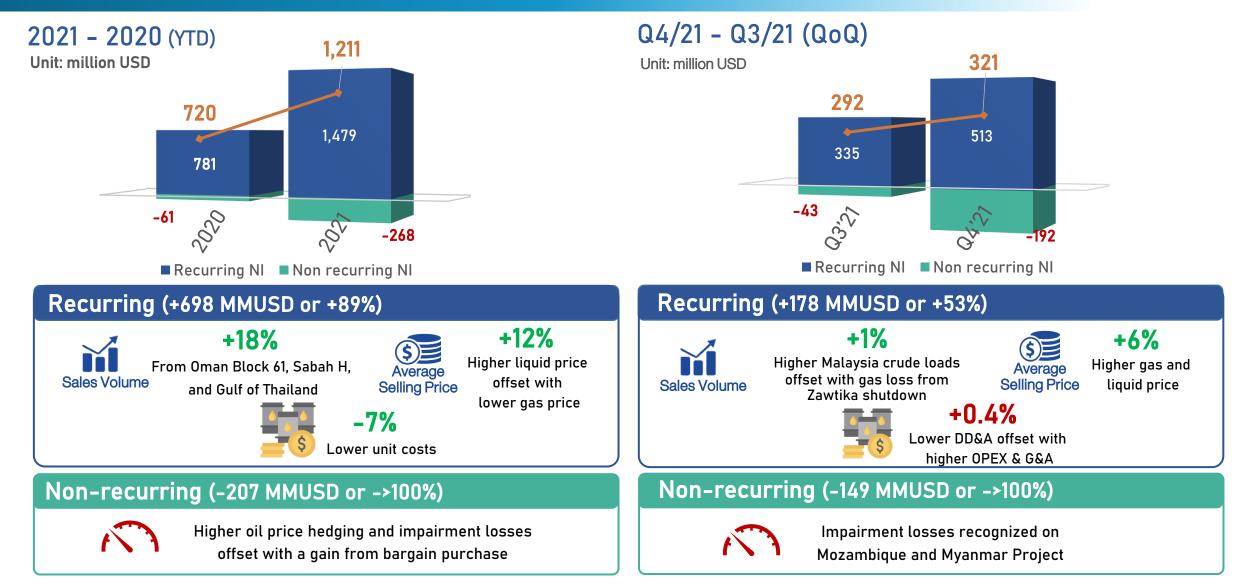
Malaysia Block K redetermination



Results – Net Income

Soaring net income from sales volume growth, higher selling price, and effective cost management





Results – Sales Volume & Average Selling Price

Solid volume growth from Oman Block 61 and Malaysia Sabah-H. Improved ASP thanks to global crude price.





PTTEP



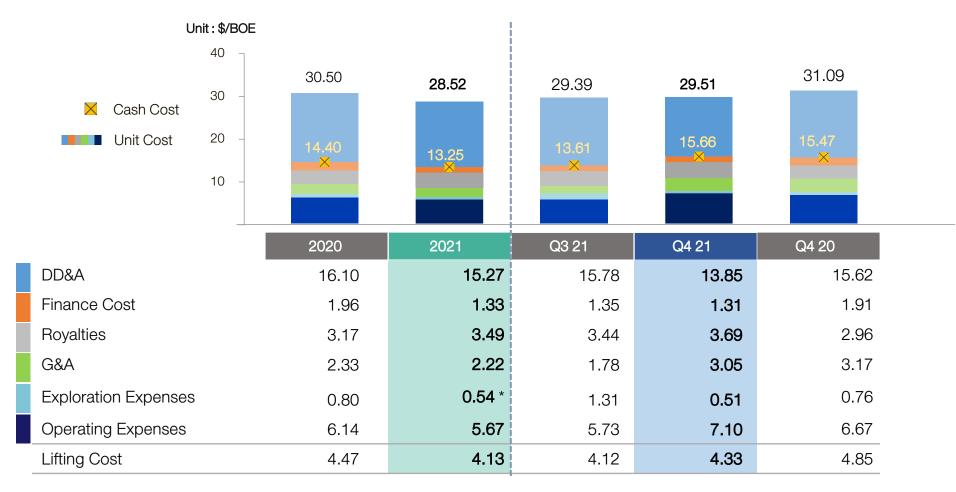
Note: Include sales volume from ADNOC Gas Processing (AGP)

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

Results – Unit Cost

Competitive cost from new projects and effective cost management





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

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 – Cashflows and Financial Position

Robust operating cashflow and financial position despite M&A payments



12.67

83:17

2021: Source and Use of Funds* **Financial Position** 73% Unit: million USD Unit: million USD **EBITDA Margin** 4,573 5,818 23,445 **× Total Assets** 180 251 22,493 Others Digital bond issuance X. 1,673 CAPEX 6,923 **Other Liabilities** 6,762 Cash flow from 4,393 989 Tax payment operations (Before tax payment) 605 **Dividend payment** 4,094 Interest-bearing Debt 3,932 Asset acquisition 2,300 (Oman Block 61) 12,428 Equity 11,799 3,804 2,559 2020 2021 Sources Uses 2020 2021 * Include Short-term investment Note: Net of adjustment for the effect of exchange rate changes on cash and cash equivalents **Debt Profile**

0.33x

D/E ratio

Weighted Average 3.44 Cost of Debt (%)

Note: Debt profile excludes Hybrid bonds

0.33x

3.38

Weighted Average

Loan Life (Years)

Fixed : Floating

14.08

82:18

Shareholders' Return – Dividend



6.00

3.75

2.25

2019

49

53



* Subject to approval from 2022 Annual General Shareholders' Meeting. Implied ~4% dividend yield for FY2021.

5.00*

3.00*

2.00

2021

50

41

4.25

2.75

1.50

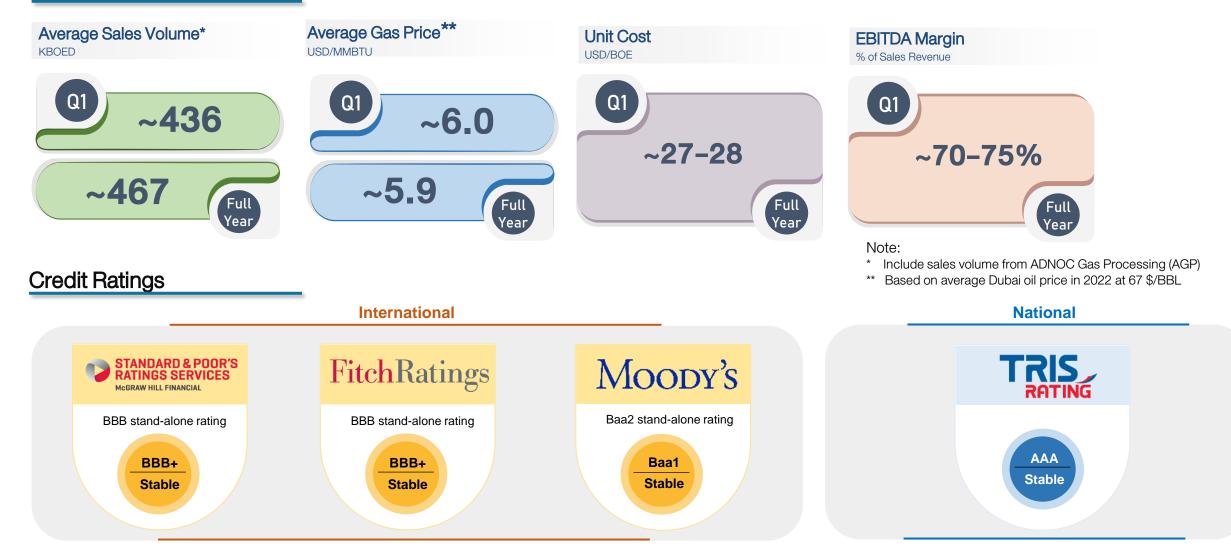
2020

77

Financial Outlook



2022 Guidance





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Thank you and Q&A

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



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Supplementary information

Financial Results Q4/2021 & FY2021	22-24
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Results – Net Income

				_			Unit: million	n USD
Statements of Income	2021	2020	%YTD	Q4 21	Q3 21	%QoQ	Q4 20	%YoY
Total Revenues	7,314	5,357	37%	1,989	1,784	11%	1,348	48%
Sales ⁽¹⁾	6,731	5,043	33%	1,867	1,744	7%	1,292	45%
Sales Volume (BOED) ⁽²⁾	416,141	354,052	18%	420,965	417,167	1%	381,285	10%
Sales Price (US\$/BOE)	43.49	38.92	12%	46.87	44.25	6%	36.85	27%
Gain from a bargain purchase	342	-	>100%	-	-	-	-	-
Others ⁽³⁾	241	314	(23%)	122	40	>100%	56	>100%
Total Expenses	6,118	4,679	31%	1,671	1,499	11%	1,292	29%
Major Expenses:								
Operating Expenses	861	795	8%	275	220	25%	234	18%
Exploration Expenses	226	104	>100%	20	50	(60%)	27	(26%)
G&A	355	314	13%	125	72	74%	117	7%
DD&A	2,202	2,086	6%	420	606	(31%)	548	(23%)
Loss on Financial Instruments	234	-	100%	7	5	40%	72	(90%)
Impairment Loss on Assets	183	91	>100%	183	-	100%	44	>100%
Income Tax Expenses	1,287	603	>100%	448	326	37%	79	>100%
Share of profit (loss) from associates and JV	15	42	(64%)	3	7	(57%)	25	(88%)
Net income	1,211	720	68%	321	292	10%	81	>100%
Recurring Net Income	1,479	781	89%	513	335	53%	168	>100%
Non-recurring Net Income	(268)	(61)	(>100%)	(192)	(43)	(>100%)	(87)	(>100%)
Non-recurring Net income breakdown:								
Oil Price Hedging	(284)	112	(>100%)	5	(41)	>100%	(38)	>100%
Tax from Effect of FX	(10)	(95)	+89%	1	(2)	>100%	10	(90%)
Effect from FX and others	12	13	(8%)	(15)	-	(100%)	(15)	-
Impairment Loss on Assets	(183)	(91)	(>100%)	(183)	-	(100%)	(44)	(>100%)
Exploration assets write-off	(145)	-	(100%)	-	-	-	-	-
Gain from a bargain purchase	342	-	100%	-	-	-	-	-

(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

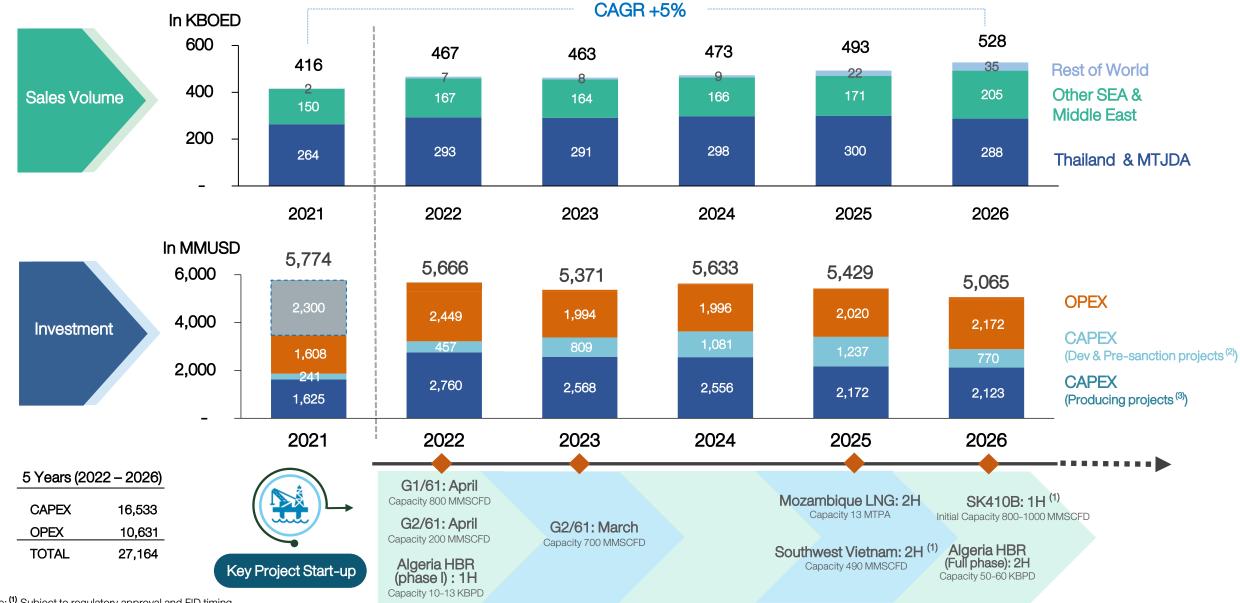
Note:

(3) Consisted of Revenue from Pipeline, Gain from FX, Forward Contract, and Gain from Oil price Hedging, and Malaysia Block K redetermination of participating interest in Q4'21

Five – Year Plan : Sales Volume

Investing for a Sustainable Growth Towards Energy Transition

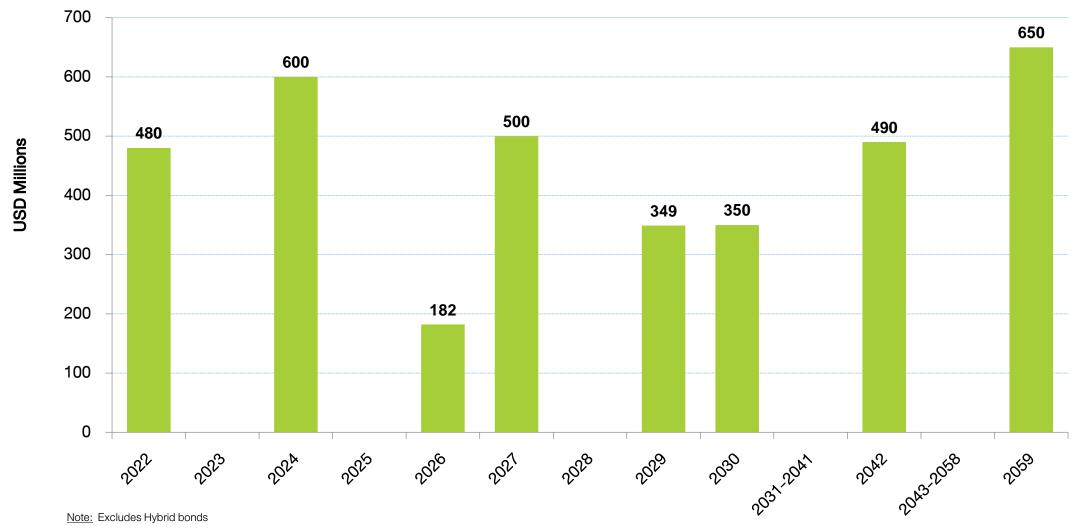




Note: (1) Subject to regulatory approval and FID timing

⁽²⁾ Development & Pre-sanction projects include Mozambique LNG, Algeria HBR, SK410B and Southwest Vietnam ⁽³⁾ Including exploration and appraisal in all projects and head office CAPEX, and new businesses **Debt Maturity Profile** As of December 2021



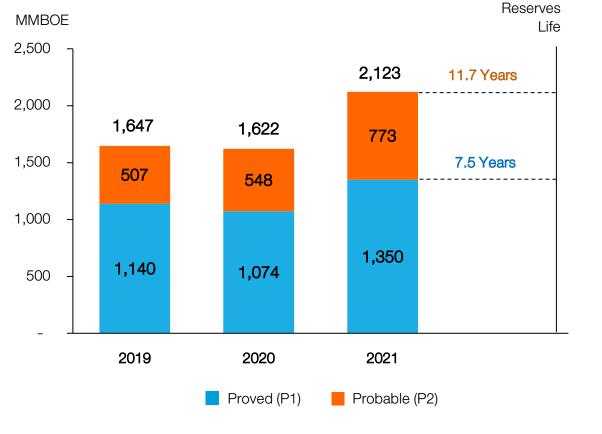


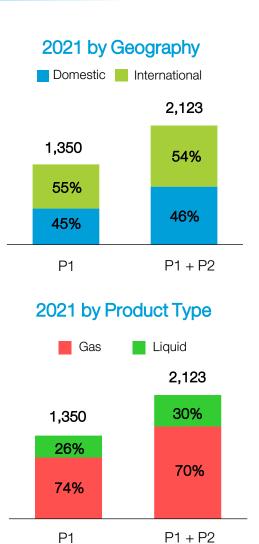
Unit: USD Millions or equivalent after cross currency swap

Reserves at the Year-end 2021

Sustained reserve life at over 5 years target







5-Year Average Proved Reserves Replacement Ratio (RRR)

2019	2020	2021
1.5X	1.5X	1.9X

• Based on total production of natural gas, condensate, and crude oil (including LPG) of 495 KBOED for the year ended December 31, 2021

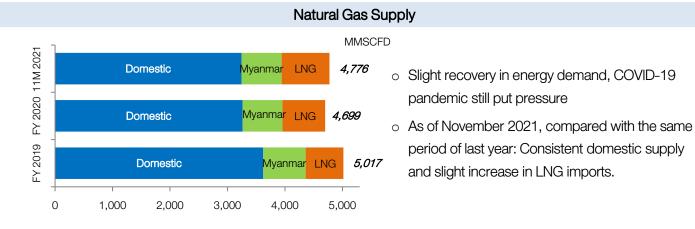
• Figures include reserves from equity method

Thailand Updates

Higher gas volume with continuing demand recovery; THB depreciation continues



Thailand Energy Overview



Natural Gas Consumption MMSCFD FY 2020 11M 2021 Electricity Industry GSP 4,436 4.368 Electricity Industrv GSP **NGV** FY 2019 4,762 Electricity Industrv 0 1,000 2.000 3.000 4.000 5,000

Electricity Generation GWH 11M 2021 193,691 54% 17% 10% FY2020 55% 10% 205,995 FY2019 57% 10% 212.050 Natural Gas Hydro Electricity Coal & Lignite Imported Renewable Energy

Exchange Rate Movement (USD/THB) 35 33.9 34 32.8 (High) 33.2 33.0 33.5 33 32.4 (Average) 32. 32 32.1 (Low) 31.3 31 30 30.0 29 28 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4

Consensus on the exchange rate mostly depends on

2021

- Efficacy of Covid-19 containment in particular for emerging variants within Thailand and globally
- Thailand economic recovery from country reopening and tourism flows
- Central bank monetary policy interest rate adjustment schedule of Bank of Thailand the currently hawkish Federal Reserve

Source: Bank of Thailand, Bloomberg

Forecast based on Bloomberg Consensus as of 4 January 2022

Source: Energy Policy and Planning Office (EPPO)

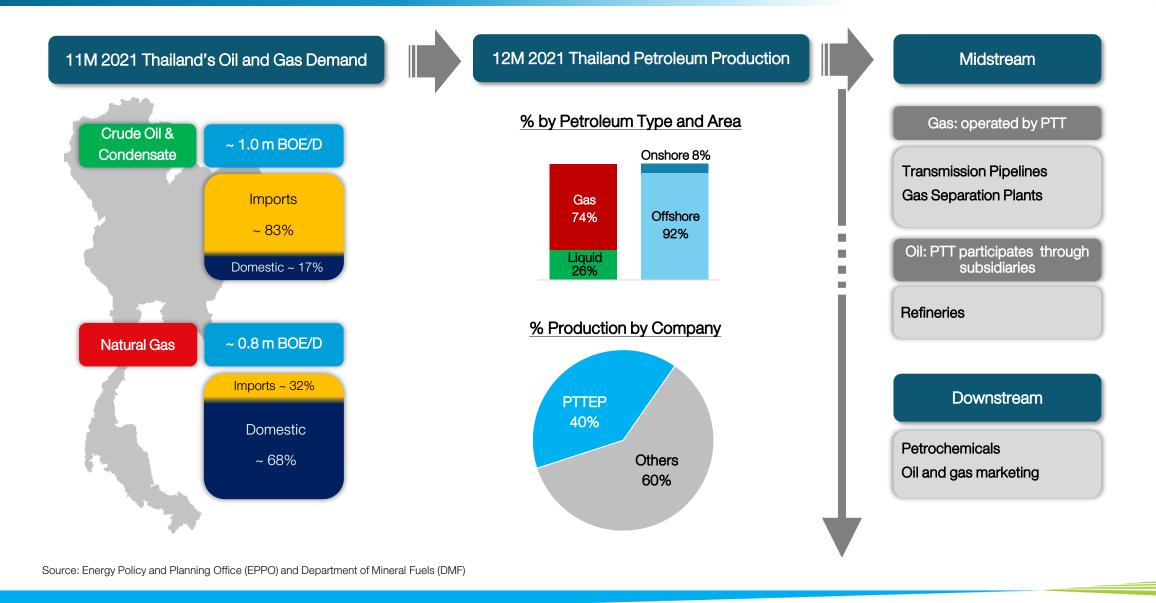
Energy Partner of Choice

2022

Thailand's Energy Value Chain

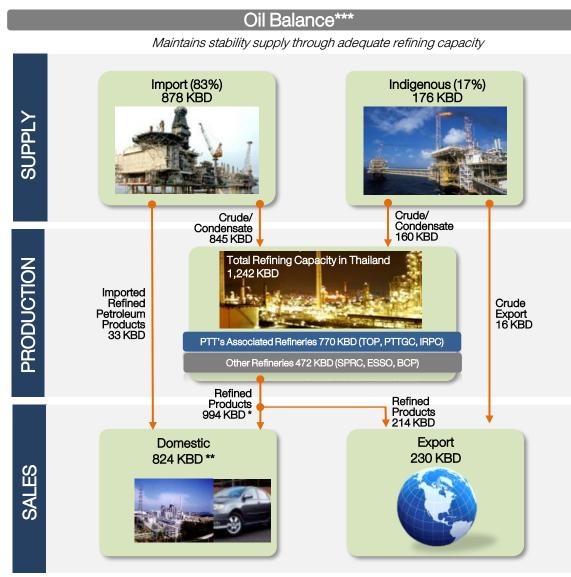
PTTEP contributes over 1/3 of Thailand's petroleum production

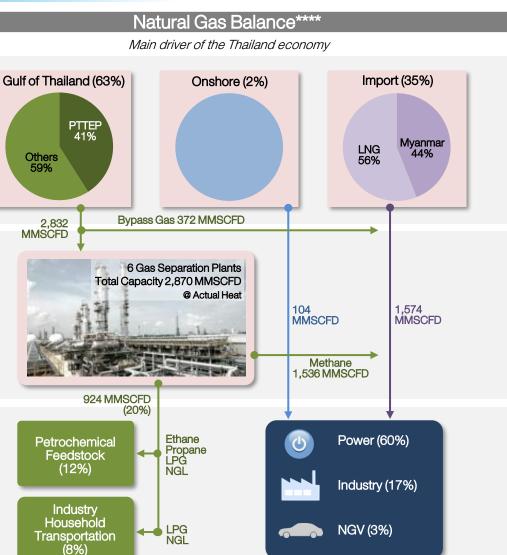




Thailand's Oil and Gas Balance







Source: PTT Note: *

* Refined product from refineries = 903 KBD, including domestic supply of LPG from GSPs and Petrochemical Plants = 91 KBD

** Not included Inventory

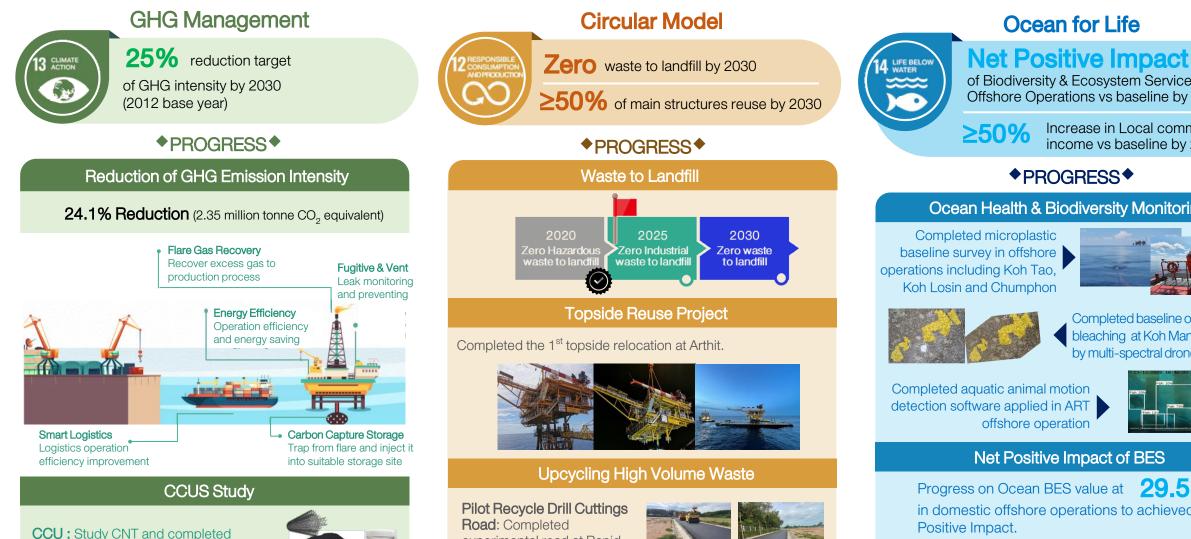
*** Information as of 11M21

**** Information as of 9M21

MMSCFD @ Heating Value 1,000 Btu/ft³

ESG Targets & Progress FY2021





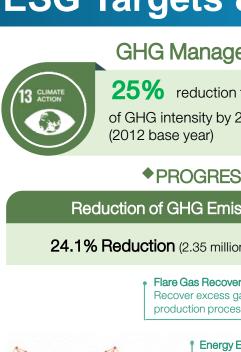
Local Community Income



29.5%

in domestic offshore operations to achieved Net

Increase in Community Income for local community that participated in our program.



CCU: Study CNT and completed prototype test unit at S1.

CCS:



Carbon Nanotube

GOT [ART] - Pre-Project study phase

LLB - Completed subsurface study for reservoir modeling

experimental road at Rapid Scaled-Up Center (RASC) in Rayong.



Sand to Zeolite: Successfully synthesized prototype zeolite from nano-silica.

Ocean for Life

of Biodiversity & Ecosystem Services in Offshore Operations vs baseline by 2030

> Increase in Local community income vs baseline by 2030

PROGRESS

Ocean Health & Biodiversity Monitoring

Completed microplastic baseline survey in offshore



Completed baseline of coral bleaching at Koh Mannai, Rayong by multi-spectral drone

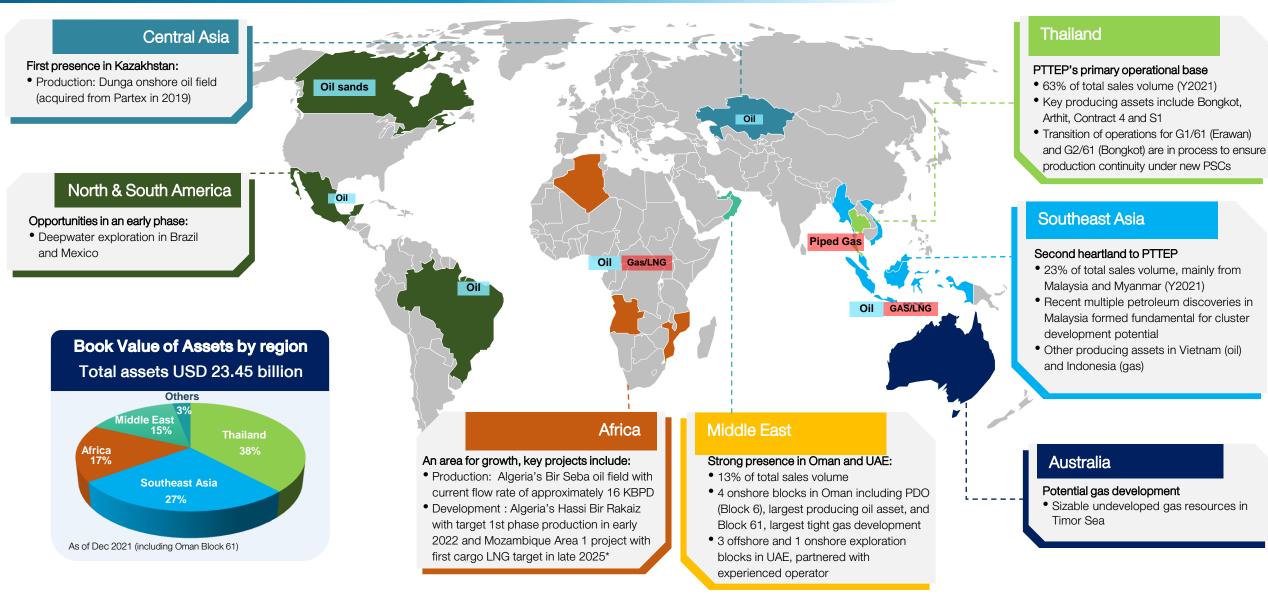
Completed aquatic animal motion detection software applied in ART offshore operation



Net Positive Impact of BES

Diversified international portfolio





Note: As of December 2021 * Subject to local security situation

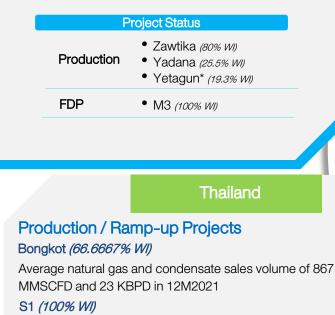
Thailand, Myanmar and Malaysia

"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 319 MMSCFD for 12M2021



The largest onshore crude oil production field in Thailand with 12M2021 average crude oil sales volume of 26 KBPD Arthit (80% WI)

Average sales volume in 12M2021 was 239 MMSCFD of natural gas and 12 KBPD of condensates

Contract 4 (60% WI)

Average sales rate of 403 MMSCFD for natural gas and 16 KBPD for condensate in 12M2021



Malaysia

Production

Block K Project :

Kikeh*(56% WI)*, Siakap North-Petai (SNP) *(22.4% WI)* and Gumusut-Kakap (GK) *(7.2% WI)*

 Average production volume in 12M2021 was 24* KBPD of crude oil and 26* MMSCFD of natural gas

SK309 and SK311 Project : (59.5% WI)

For East Patricia field (42% WI)

 Average production volume in 12M2021 was 165* 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 12M2021 at 203 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 13 KBPD in 12M2021
- 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% Wl)*
- 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 203 MMSCFD in 12M2021
- The project has completed drilling 2 wells in 2021



The Middle East

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



UAE Oman Mukhaizna (Block 53) Abu Dhabi Offshore 1,2 and 3 • Largest single onshore PDO (Block 6) • High potential prospective resources with significant sizeable discoveries producing field in Oman Located North-west of Abu Dhabi Emirates, United Arab Emirates Average oil production volume of Largest asset covering around Granted the award for exploration in January 2019 – 2020 96 KBPD for 9M2021 1/3 of the country • Operated by Eni Abu Dhabi B.V. (70% interest) Abu Dhabi offshore 3 Operated by Occidental Long-life asset, produced only Sharjah Petroleum (47% interest) 15% of reserves in-place Shariah Onshore Area C Onshore Area C AGP Abu Dhabi PDO Average oil production volume • High gas & condensate potential with the possibility of integrating with Offshore 1 of 626 KBPD for 12M2021 U.A.E. (Block 6) surrounding fields Operated by Petroleum **Oman Block 61** • Located in the central part of Sharjah Emirate, United Arab Emirates \bigcirc OLNG Abu Dhabi **Development of Oman** OMAN • Operated by Eni Abu Dhabi B.V. (50% interest) Block 61 • Largest tight gas development in (Joint Operating Company) Offshore 2 Middle East Mukhaiza ADNOC Gas Processing (AGP) (Block 53) • Gas and condensate production • One of the largest gas processing complexes in the world capacity of 1,500 MMSCFD and **Oman Onshore Oman Onshore Block 12** 69,000 BPD respectively (total capacity of 8 BCFD) block 12 JV: 3 plants with capacity of 1.2 BCFD • Operated by BP Exploration Located onshore central part of ADNOC: 2 plants with capacity of 6.9 BCFD (Epsilon) Limited (40% interest) the Sultanate of Oman Essential to Abu Dhabi and UAE's economy *Block awarded in 2019 Signed agreement with Oman's **Oman LNG** **Block awarded in 2020 Ministry of Oil and Gas (MOG) for • Sizeable volumes of Propane, Butane and Naphtha offtake exploration and production rights Operated by ADNOC (68% interest) • The only LNG facility in Oman in February 2020 Operated by Total E&P Oman Processing capacity 10.4 MTPA Block 12 B.V. (80% interest) Contracted LNG sales to international buyers: Japan and South Korea

> Government of Oman 51% (Operator)

Note: ADNOC: Abu Dhabi National Oil Company

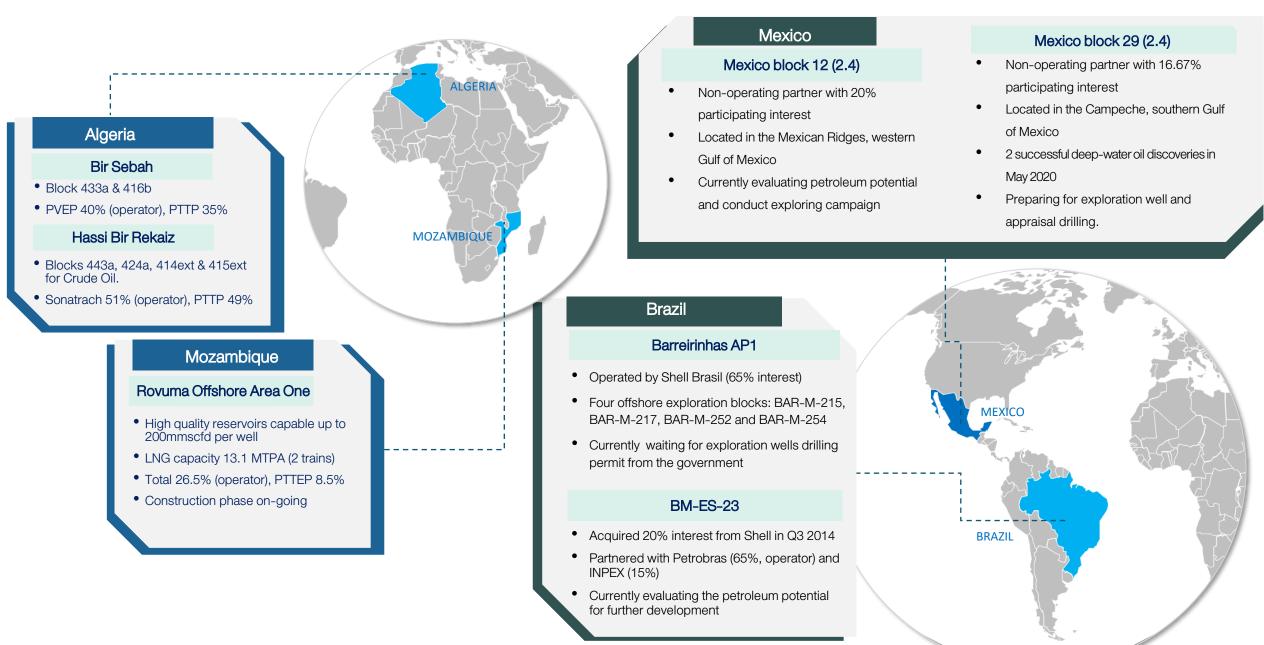
PROPERTY AND A STATE

Production phase

- Exploration phase
- Midstream

Rest of the World





Project information 1/5



	Project	Status*	Phase	PTTEP's	Partne		12M2021 Average		2021 Key Activities
	-	Status	Filase	Share	(as of Decem	nber 2021)	Gas (MMSCFD)	Liquid (KBPD)	
Tha	iland and JDA			-	i			i	
1	Arthit	OP	Production	80%	Chevron MOECO	16% 4%	239	12	Higher gas deliverability levelDrill development and Infill wells
2	B6/27	OP	Production	100%			-	-	 Prepare for decommissioning activities Best Practical Environment Option (BPEO) report has been approved by DMF on 18 November 2021.
3	B8/32 & 9A	JV	Production	25.001%	Chevron MOECO KrisEnergy Palang Sophon	51.66% 16.71% 4.63% 2%	48	14	 Ensure gas deliverability level at DCQ Drill development wells Preparation for topside reuse in 2022 and 2023
4	Bongkot	OP	Production	66.6667%	TOTAL	33.3333%	867	23	 Infills drilling for both BKT JV and BKT Sole Risk Maintain production level as planned Carry out wells plug and abandonment, Pipeline cleaning and Hg decontamination Wellhead platform & sealine and FSO1 PLEM Decommissioning (Non-transferred asset)
5	Contract 3 (Formerly Unocal III)	JV	Production	5%	Chevron MOECO	71.25% 23.75%	413	23	Decommissioning activities
6	Contract 4 (Formerly Pailin)	JV	Production	60%	Chevron MOECO	35% 5%	403	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%	1	0.1	Decommissioning activities
10	L53/43 & L54/43	OP	Production	100%	-		-	0.7	 Maintain production plateau Fully explore the new resource for additional field potential i.e. new drilling well and enhance oil recovery activities.
11	PTTEP1	OP	Production	100%	-		-	0.2	 Maintain production plateau Fully explore the new resource for additional field potential i.e. new drilling well and enhance oil recovery activities.
12	S1	OP	Production	100%	-		8	Crude: 26 KBPD LPG: 186 MTon/Day	 Maximize crude production by fully implemented the business plan and work activities as planned. 10 years strategy roadmap and execution plan was approved by the management committee to ensure all focused strategic areas implemented all workplans and activities 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 New GSA has been effective since 1 Oct 2021.

* 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	PTTEP's	Partners		12M 2021 Average	Sales Volume **	2021 Key Activities
		Status	FlidSe	Share	(as of December 202	21)	Gas (MMSCFD)	Liquid (KBPD)	
<u>Tha</u>	iland and JDA			-					
14	L22/43	OP	Production	100%		-	-	-	Study to explore additional field potentialPrepare for the resume production or exist strategy in future
15	MTJDA	JOC	Production	50%	Petronas-Carigali	50%	250	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 several Agreements (including Site Assess Agreement) signing with the Existing Concessionaires, 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)	OP	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
Oth	ers SEA****								
1	Malaysia	OP (except Gumusut- Kakap (GK) in Block K)	Production/ Exploration	7.2-80% (varied by permits)	Varied by permits		SK309 and SK311** 165 Block K** 26 Block H** 203	SK309 and SK311** 16 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: Continue production at plateau 270MMSCFD
2	Yadana	٧L	Production	25.5%	TOTAL Chevron MOGE	31.24% 28.26% 15%	769	-	 Completed drilling 2 production wells New DCQ*** proposal and negotiation with PTT
3	Yetagun	JV	Production	19.3178%	MOGE 2	0.91018% 20.4541% 9.3178%	17	0.6	Resumed its production in October 2021
4	Zawtika (M9 & a part of M11)	OP	Production	80%	Myanma Oil and Gas Enterprise (MOGE)	20%	319	-	• Some activities are delayed and process under difficulty due to the COVID-19 and political situation in Myanmar.
5	Myanmar M3	OP	Exploration	100%			-	-	 Waiting for approval of PSC Supplementary FEED & OE and survey activities Gas Sales Agreement negotiation
6	Myanmar MD-7	OP	Exploration	50%	TOTAL	50%	-	-	Termination process in progress

* 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
 *** PTTEP submitted a request to terminate and relinquish 100% of the exploration blocks of Myanmar M11 and 77.5% of the exploration blocks of Myanmar MOGE3.
 The official approval from the Government of the Republic of the Union of Myanmar was already obtained for these projects in November 2021.

Project information 3/5



	Project	Status*	Phase	PTTEP's Share	Partners (as of December 20	021)	12M 2021 Average Gas (MMSCFD)	e Sales Volume ** Liquid (KBPD)	2021 Key Activities
Othe	ers SEA					521)			
9	Vietnam 9-2	JOC	Production	25%	PetroVietnam Pharos Energy	50% 25%	14	4	Maintain production level
10	Vietnam 16-1	JOC	Production	28.5%	PetroVietnam Pharos Energy OPECO	41% 28.5% 2%	6	13	Maintain production levelCompleted drilling campaign of 4 development wells
11	Vietnam B & 48/95	JV	Exploration	8.5%	PetroVietnam MOECO	65.88% 25.62%	-	-	 Monitoring Power Plants progress Negotiation process on commercial terms in order to push forward the Final Investment Decision (FID) The first production target at the end of 2025
12	Vietnam 52/97	JV	Exploration	7%	PetroVietnam MOECO	73.4% 19.6%	-	-	 Monitoring Power Plants progress Negotiation process on commercial terms in order to push forward the Final Investment Decision (FID) The first production target at the end of 2025
13	Natuna Sea A	JV	Production	11.5%	Premier Oil KUFPEC Petronas Pertamina	28.67% 33.33% 15% 11.5%	203	2	Completed drilling 2 wells in Q4/2021.
Mide	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%	-	-	Continued drilling the first exploration well
3	Abu Dhabi Offshore 3	JV	Exploration	30%	Eni Abu Dhabi	70%	-	-	G&G study is on-going
4	Sharjah Onshore Area C	JV	Exploration	25%	Eni Abu Dhabi SNOC	50% 25%	-	-	Completed the acquisition of 25% interest on 1 March 2022
5	PDO Block 6 (Oman)	JOC	Production	2%	Government of Oman Shell Total	60% 34% 4%	-	626**	Normal operations with daily production around 600 KBD
6	Mukhaizna (Oman)	JV	Production	1%	Occidental OOCEP Indian Oil Mubadala	47% 20% 17% 15%	-	96**	 Normal operations with daily production around 95 KBD
7	Oman Onshore Block 12	JV	Exploration	20%	Total E&P Oman Block 12 B.V.	80%	-	_	 3D seismic reprocessing (original 3D) in progress 3D seismic acquisition (new 3D) is in process for tendering
8	Oman Block 61	٦V	Production	20%	BP Makarim Gas Development LLC PC Oman Ventures Limited (PETRONAS)	40% 30% 10%	1,069	47	 Full production capacity of natural gas and condensate in according to the Sales and Purchase Agreement

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



	Project	Status*	Phase	PTTEP's Share	Partners	12M 2021 Average		2021 Key Activities
	Floject	Status	FlidSe	FILES	(as of December 2021)	Gas (MMSCFD)	Liquid (KBPD)	
<u>Oth</u>	er International							
1	PTTEP Australasia (PTTEP AA)	OP	Exploration	90%-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 Surrender AC/L3 in November 2021
2	Mozambique Area 1	VL	Development	8.5%	Total, Mitsui, 26.5%,20% ENH, OVL 15%, 10% OVRL & Oil India , 10%, 10% Bharat 10%, 10%	-	-	 First Cargo is expected by 2025, subject to local security situation 1st Debt drawdown in project Finance Force Majeure was declared by the operator for safety reason due to the security incident in Palma. Plan to resume construction activities after security and safety restored in Cabo Delgado province
3	Algeria 433a & 416b (Bir Seba)	JOC	Production	35%	PetroVietnam 40% Sonatrach 25%	-	16**	 Drilling of 4 development wells completed in 2021 Existing wells intervention Production respect OPEC+ policy
4	Algeria Hassi Bir Rekaiz	OP	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 2022
5	Mariana Oil Sands (Canada)	OP	Exploration	100%	-	-	-	-
6	Brazil 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%	-	-	Completed the drilling operation of 1 exploration well
9	Mexico block 29 (2.4)	JV	Exploration	16.67%	Repsol Mexico30%PC Carigali Mexico28.33%Wintershal DEA25%	-	-	 Completed drilling 2 wells in Q3/2021 Field pre-development study is in progress.

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 September 2021)	12M 2021 Average Gas (MMSCFD)		2021 Key Activities
Oth	er International****							
10	Block 17/06 (Angola)	JV	Pre- development	2.5%	Total 30% Sonangol 30% SSI 27.5% Acrep 5% Falcon Oil 5%	-	-	 Completed Finalize Negotiation Head of Term Agreements for Begonia Oil Field Development Project Completed Reservoir Model for Gardenia & Forsythia Gas Fields Development Project
11	Dunga (Kazakhstan)	JV	Production	20%	Total 60% OOCEP 20%	2	13	 Continue to curb production per OPEC+ agreement to support price Procurement process Compression package and Gathering Lines Engineering of Separation Upgrade, Flare package Inspection of Sea water pipeline
Mid	stream Project			•	•		•	
1	Oman LNG	Shareholder	On line	2%	Government of Oman51% Shell30% Total30%Total5.54% Korea LNGKorea LNG5%Mitsubishi2.77% MitsuiLtochu0.92%	-	-	Normal operations
2	ADNOC Gas Processing (AGP)	٦V	On line	2%	ADNOC 68% Shell 15% Total 15%	-	-	 Perform midstream operation activities Maintain production and plant integrity with maintenance work as planned

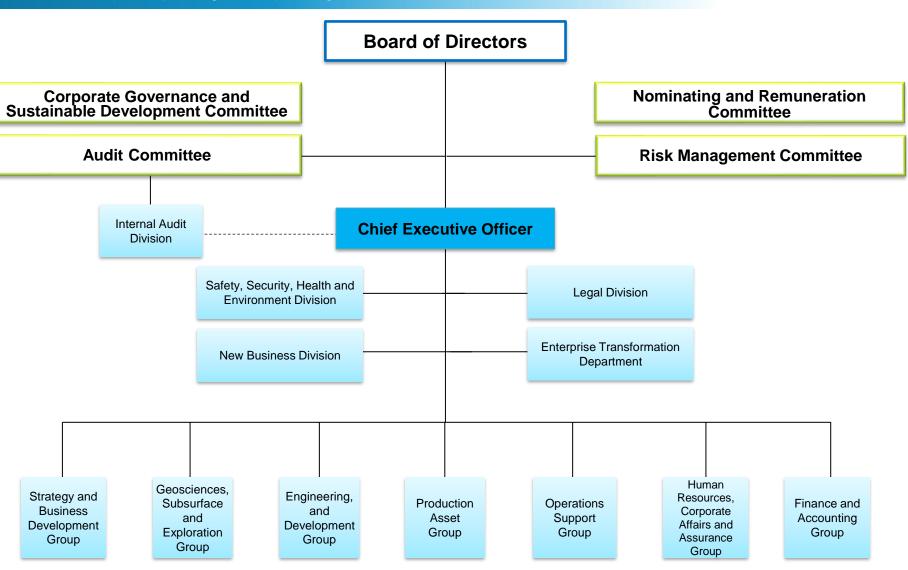
Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship/ / JV = PTTEP as Joint Venture Partner ٠

** Sales volume stated at 100% basis

*** Products are propane, butane and naphtha.
 **** Divestment of the Potiguar Project was announced on 30 July 2021 and the transaction was completed and in effect on 29 October 2021.

Organization structure (as of 1 January 2022)

Ensuring performance excellence, transparency, and good corporate governance



PTTEP

Ratio & Formula



Lifting Cost	(Operating Exp. – Transportation Cost – Stock Variation – Other expenses not related to
(\$/BOE)	lifting) / Production Volume
Cash Cost	(Operating Exp. + Exploration Exp. + G&A + Royalties + Finance Cost) / Sales Volume
(\$/BOE)	
Unit Cost	(Operating Exp. + Exploration Exp. + G&A + Royalties + Finance Cost + DD&A) / Sales
(\$/BOE)	Volume
Reserves	5-Yr Additional Proved Reserves / 5-Yr Production Volume
Replacement Ratio	
Reserves Life Index	Proved Reserves / Production Volume
(Year)	
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	(Trailing-12-month net income + Trailing-12-month Interest Expenses & Amortization of
Employed	Bond Issuing Cost) / (Average shareholders' equity and average total debt between the
	beginning and the end of the 12-month period)
Simple Effective	Income tax expenses / Income before income taxes
Tax Rate	
Total debt	Short-term loans from financial institution + Current portion of long-term debts + Bonds +
	Long-term loans from financial institution

	DTTC
Net debt	Total debt – Liquidity
Debt to Equity	Total debt / Shareholders' equity
Net Debt to Equity	Net debt / Shareholders' equity
Total Debt to	Total debt / (Total debt + Shareholders' equity)
Capital	
Total Debt to	Total debt / Trailing-12-month EBITDA
EBITDA	
Net Debt to	Net debt / Trailing-12-month EBITDA
EBITDA	
EBITDA Interest	Trailing-12-month EBITDA / Trailing-12-month Interest Expenses & Amortization of
Coverage Ratio	Bond Issuing Cost

Crude oil			To convert			
	Tonnes (metric)	Kilolitres	Barrels	US gallons	Tonn	es/year
From			Multiply by			
Tonnes (metric)	1	1.165	7.33	307.86		-
Kilolitres	0.8581	1	6.2898	264.17	-	
Barrels	0.1364	0.159	1	42		-
US gallons	0.00325	0.0038	0.0238	1		-
Barrels/day	-	-	-	-	4	19.8
Natural gas and LNG			To convert			
	Billion cubic	Billion cubic feet NG	Million tonnes oil	Million tonnes	Trillion BTU	MBOE
	Metres NG		equivalent	LNG		
From			Multiply by			
1 billion cubic metres NG	1.000	35.315	2 222	0.735	34.121	5.883
	1.000	30.310	0.860	0.755	04.121	0.000
1 billion cubic feet NG	0.028	1.000	0.860	0.021	0.966	0.167
1 billion cubic feet NG	0.028	1.000	0.024	0.021	0.966	0.167
1 billion cubic feet NG 1 petajoule NG	0.028 0.028	1.000 0.981	0.024 0.024	0.021	0.966 0.952	0.167 0.164
1 billion cubic feet NG 1 petajoule NG 1 million tonnes oil equivalent	0.028 0.028 1.163	1.000 0.981 41.071	0.024 0.024 1.000	0.021 0.021 0.855	0.966 0.952 39.683	0.167 0.164 6.842