

Analyst Meeting Q1 2022 28 April 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.



Transition | G1/61 and G2/61

Note: ARAA: Asset Retirement Access Agreement

ATA: Asset Transfer Agreement
OTA: Operations Transfer Agreement
PSC: Production Sharing Contract
SAA: Site Access Agreement



G2/61 - Bongkot

Transition of 200mmscfd completed

Proceed for additional 500mmscfd in Mar 2023

Production rate 700mmscfd

G1/61, G2/61 PSC signed

G1/61 Prelim Facility
Access Agreement signed

G1/61 OTA, SAA, ARAA signed

G2/61 ATA Signed •

G1/61, G2/61 Petroleum sales agreements signed with PTT

G1/61, G2/61 PSC effective 24APR202

G2/61 Transition PSC remaining areas

G1/61 reaches 800mmscfd

2019 2020 2021

2023

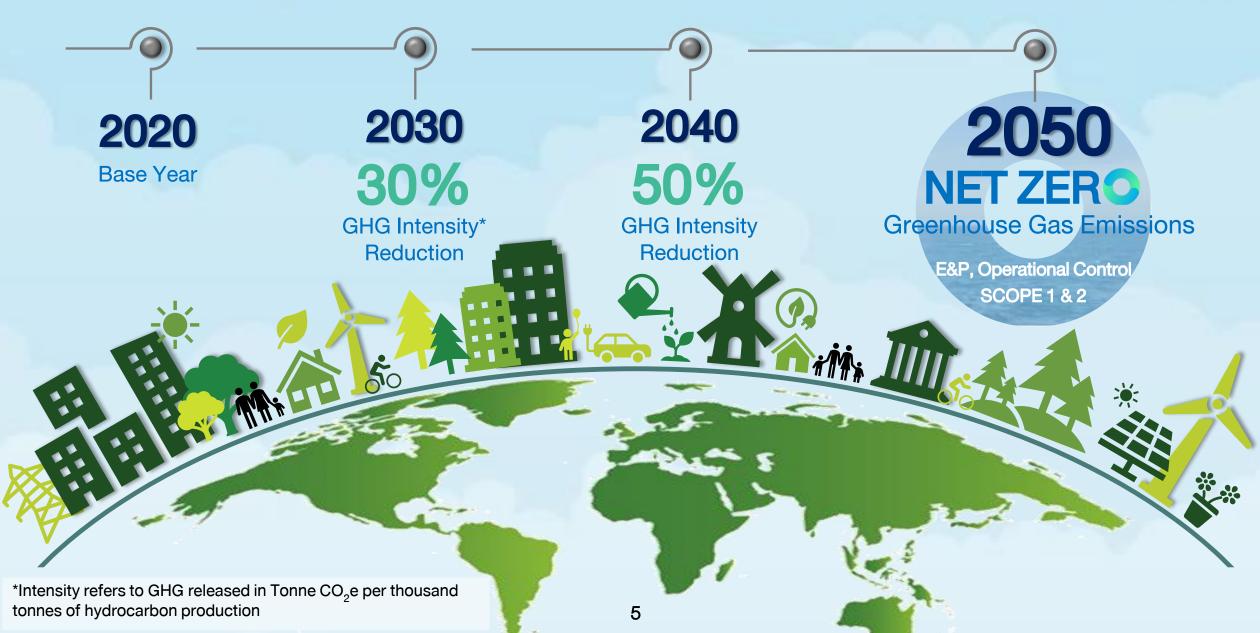
2024

2025

2022

Our Net Zero Ambition







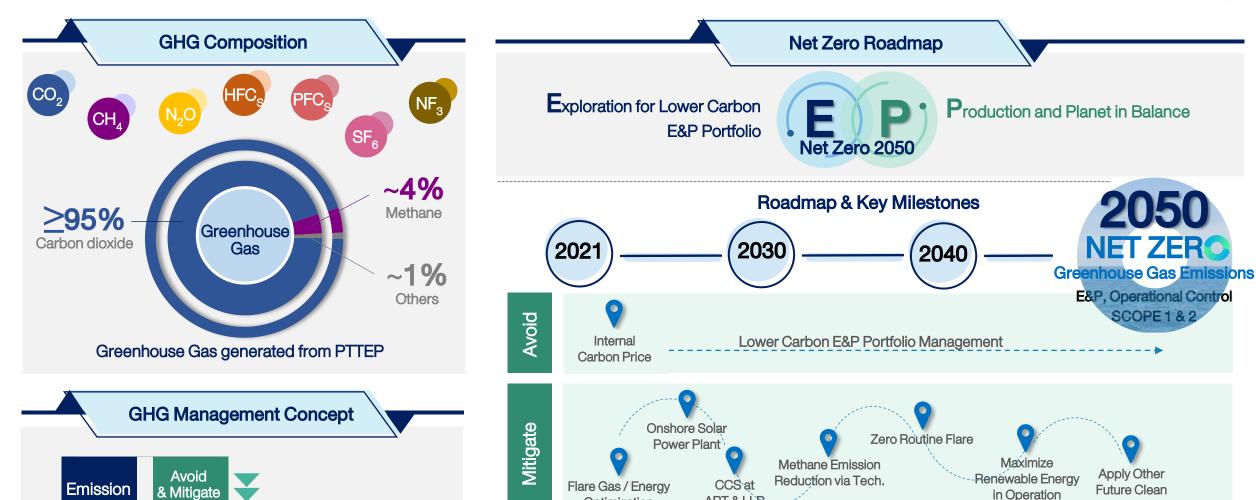
Pathway to Net Zero GHG Emissions

Remaining Emission

Offset



Energies



Optimization

Offset

NET ZER

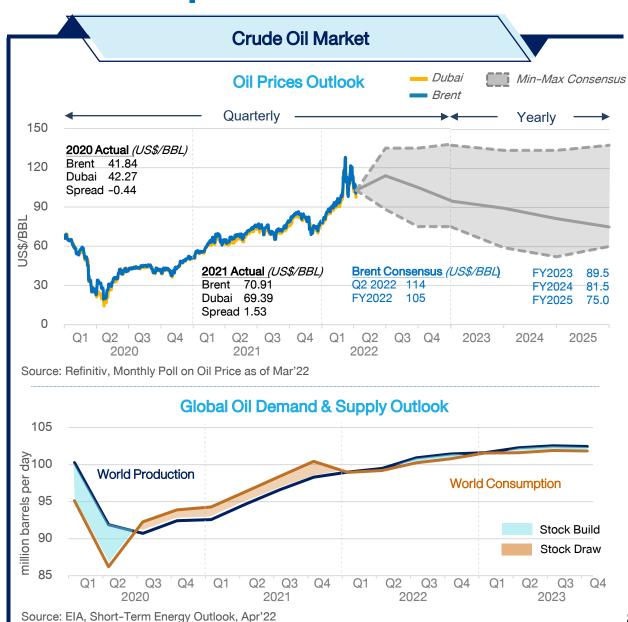
ART & LLB

Forestation Program and Blue Carbon Project

Other Offset Program through Ocean for Life

Markets | Oil and Gas





LNG Market LNG Spot Price Outlook Quarterly -Yearly 2024-2028: Rebalancing of the 30 global LNG market will bring prices down to the cost of developing new supply, particularly from the US 20 WM (Apr'22) Russia-Ukraine war, Risk premium associated with Russian supply resulting in Russia supply PIRA (Feb'22) disruptions will eventually disruption and high demand from cold dissipate when the war in FGE (Apr'22) Ukraine comes to an end weather in EU and NEA Q1'22 Q2'22 Q3'22 Q4'22 Q1'23 Q2'23 Q3'23 Q4'23 2024

Major Risk Factors



Source: Woodmac, PIRA, FGE, Information as of Apr'22











Business Update | E&P





G1/61

Transition and Operatorship transfer completed 24 APR 2022. Proceed to ramp-up activities to achieve 800MMSCFD in 24 months

G2/61

Transition of 200MMSCFD completed
On track for additional 500 MMSCFD in Mar 2023



SB412

Obtained new block SB412 from MY Bid Round 2021. PSC signed in March 2022.

SK410B

Prepare to drill 1 more exploration well in 2022 For LLB - FID expected in 2023



Yadana

Become new operator with 37% interest by 20 July 2022



Sharjah Onshore Area C

25% stake acquisition completed 1 March 2022
On progress of seismic activity



MZA 1

1st Cargo expected in 2025 awaiting local security situation



Algeria

HBR-Phase I

1st Oil expected in Q2/2022 at 4 KBOED



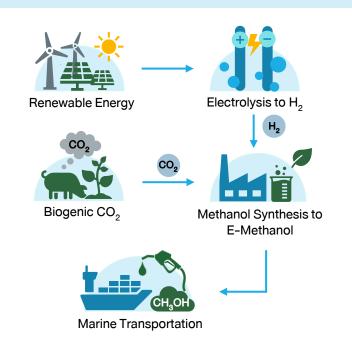
Business Update | Beyond E&P



Green Methanol

24 Jan 2022: Signed a MOU with multiple international firms to explore Green Methanol value chain, with plan of 50KTPA methanol production plant in Singapore

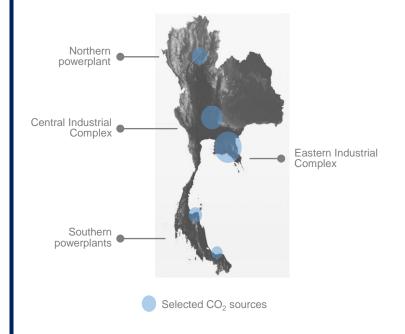
What is Green Methanol?



CCS

12 January 2022: Established Thailand CCS Project Task Force to develop CCS initiatives

25 April 2022 : Signed a MOU with INPEX and JGC to explore on CCS project in Thailand



Solar Farm

- 1st Pilot Solar energy project of PTTEP
- ~10 MWp, FID mid 2022 and COD early 2023
- 100% owned by FST, 100% offtake by S1
- Completed FEED and started application of permits and licenses



ARV

- 21 April 2022: Establishment of B-Med X, a JV between Cariva, a subsidiary of ARV, and BJC Healthcare, subsidiary of BJC
- To develop an aesthetic marketplace application and expand to healthcare business such as remote healthcare system







Results | Q1/22 Highlights

Terminology Change

Recurring Net income
Non-recurring Net income



Profit (Loss) from normal operation

Profit (Loss) from non-operating items



Q1'22 Highlights (QoQ)



Average Selling price +10%

- Liquid +20%
- Gas +4%



Average Sales volume +2% (6KBOED)

mainly from increased DCQ of Arthit project from 220 mmscfd to 280mmscfd



Outstanding Oil Price Hedging volume

Q1'22 : 11.55 mmbbl Q4'21 : 15.4 mmbbl

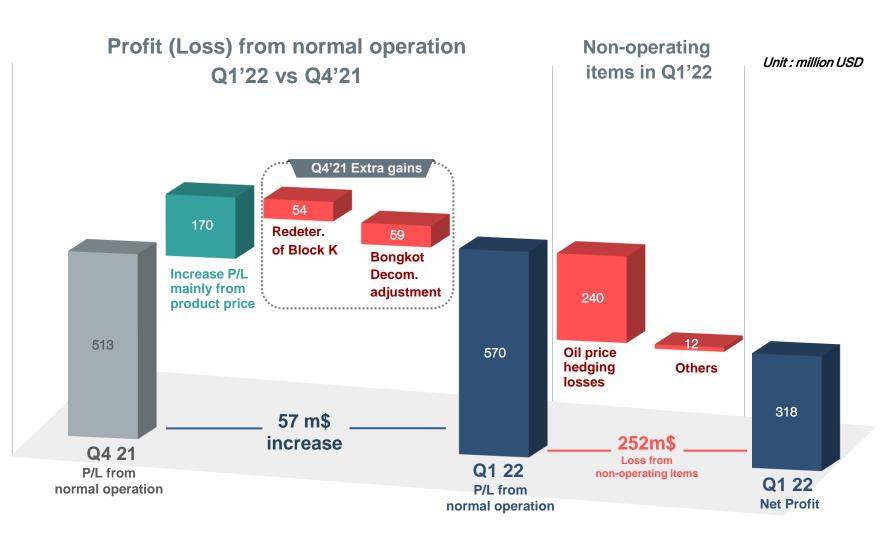
Q4'21 Extra gains



Other income from Malaysia Block K redetermination

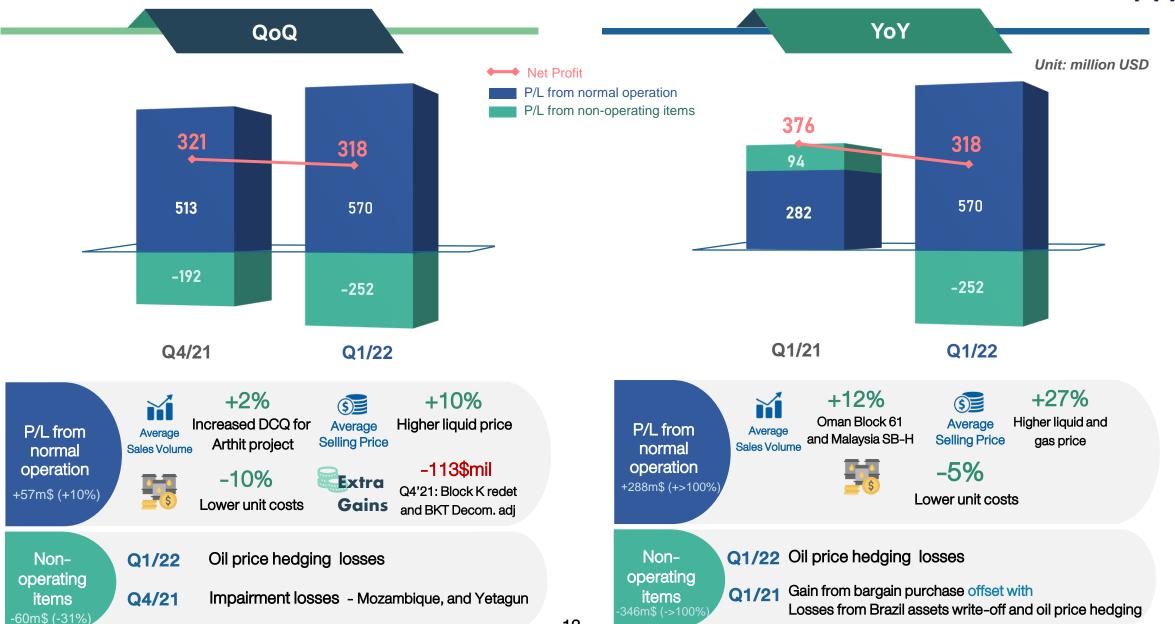


Reduction in DDA from Bongkot Decommissioning Liabilities adjustment



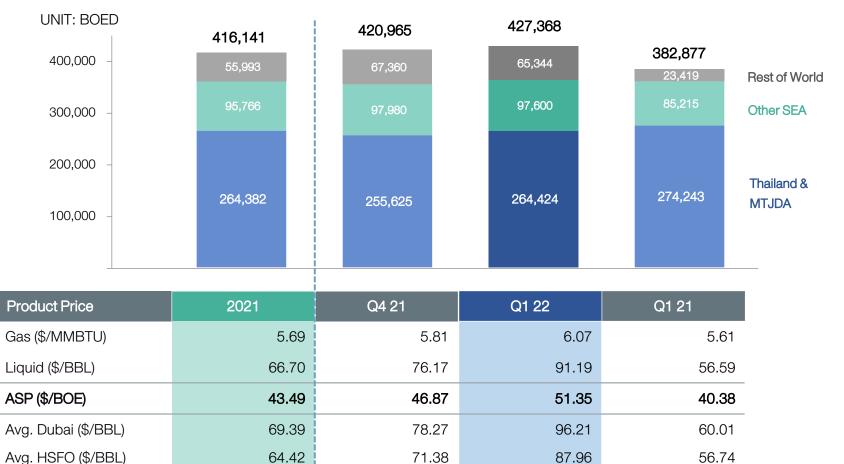
Results | Profit and Loss





Results | Sales Volume and Product Price





Volume Mix Liquid Gas 27% 29% 73% 71% Q4 2021 Q1 2022 **Revenue Mix** 47% 48% 53% 52% Q4 2021 Q1 2022

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

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

ASP: Average Selling Price

(High Sulphur Fuel Oil)

Results | Unit Cost





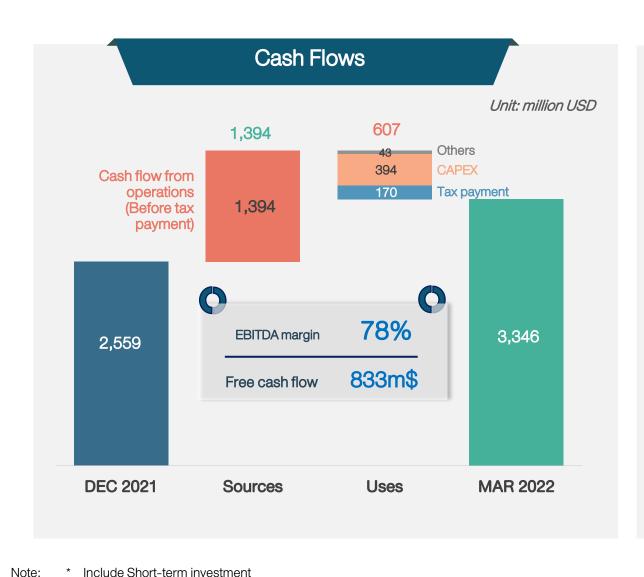
Note: * Exclude Exploration assets write-off in Brazil for Q1 21

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 | Cash Flows and Financial Position



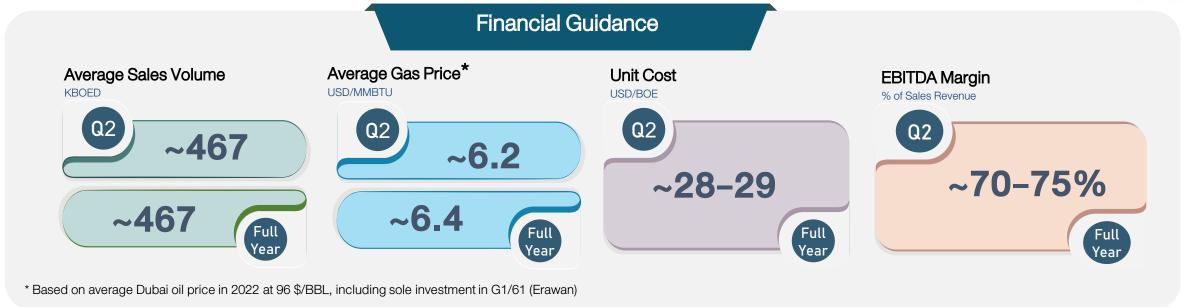




^{*} Include Short-term investment
Net of adjustment for the effect of exchange rate changes on cash and cash equivalents

Results | Financial Guidance and Debt Profile





	Debt Profile	
	2021	Q1 2022
Debt to Equity	0.33	0.33
Debt to EBITDA	0.80	0.72
Average Cost of Debt	3.38%	3.38%
Average Loan Life	12.7 Yrs	12.4 Yrs
Interest Rate (Fixed : Float)	83:17	83:17



Note: Debt excludes Hybrid bonds





Dow Jones Sustainability Indices

Powered by the S&P Global CSA

Supplementary information

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Organization Structure

Ratio and Formula 46



Results | Profit and Loss Statement



•						Unit: million USD
	Q1 22	Q4 21	%QoQ	Q1 21	%YoY	FY2021
Total Revenues	2,083	1,989	5%	1,779	17%	7,314
Sales (1)	2,030	1,867	9%	1,391	46%	6,731
Sales Volume (BOED) (2)	427,368	420,965	2%	382,877	12%	416,141
Sales Price (US\$/BOE)	51.35	46.87	10%	40.38	27%	43.49
Gain from a bargain purchase	-	-	_	350	(100%)	342
Others (3)	53	122	(57%)	38	39%	241
Total Expenses	1,776	1,671	6%	1,405	26%	6,118
Major Expenses:						
Operating Expenses	197	275	(28%)	174	13%	861
Exploration Expenses	6	20	(70%)	149	(96%)	226
G&A	93	125	(26%)	75	24%	355
DD&A	517	420	23%	547	(5%)	2,202
Loss on Financial Instruments	245	7	>100%	98	>100%	234
Impairment Loss on Assets	-	183	(100%)	-	-	183
Income Tax Expenses	497	448	11%	192	>100%	1,287
Share of profit (loss) from associates and JV	11	3	>100%	2	>100%	15
Net Profit	318	321	(1%)	376	(15%)	1,211
Profit (Loss) from normal operation	570	513	11%	282	>100%	1,479
Profit (Loss) from non-operating items	(252)	(192)	(31%)	94	(>100%)	(268)
Non-operating items breakdown:						
Oil Price Hedging	(240)	5	(>100%)	(107)	(>100%)	(284)
Tax from Effect of FX	(2)	1	(>100%)	(9)	78%	(10)
Effect from FX and others	(10)	(15)	33%	5	(>100%)	12
Impairment Loss on Assets	-	(183)	100%	-	-	(183)
Exploration assets write-off	-	-	-	(145)	100%	(145)
Gain from a bargain purchase	-	-		350	(100%)	342

⁽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

PTTEP Overview | E&P Flagship of PTT Group



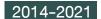
Operating Framework

SVC Stakeholder Value Creation Be Responsible











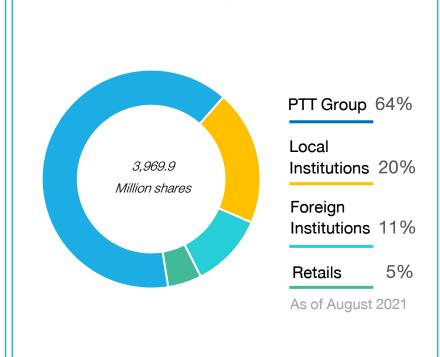








Shareholding Structure



Stock Quote Market Capitalization Sales Revenue Cash Cost

PTTEP

- > 15 Billion USD
- > 90% SEA & ME
- < 14 USD/BOE

Business Strategy

HPO & Thrive in Lower Carbon Future

- Sustainable E&P business
- Diversification beyond E&P
- Green House Gas Management

Sustain Business Integrity Excellence

- Smart Assurance
- GRC in Common Sense

Optimize Resources and Create Shared Values

- Circular Model for E&P
- Ocean for Life













PTTEP Overview | Diversified portfolio

Oil sands



Central Asia

Kazakhstan

• Dunga onshore oil field (acquired from Partex in 2019)

North & South America

Opportunities in an early phase:

 Deepwater exploration in Brazil and Mexico

Book Value of Assets by region Total assets USD 24.14 billion



An area for growth, key projects include:

- Algeria's Bir Seba oil field with current flow rate of approximately 17 KBPD
- Algeria's Hassi Bir Rakaiz oil field target 1st oil production in Q2/22.
- Mozambique LNG project target 1st cargo in late 2025*

Thailand

Home Base

- 63% of total sales volume (3M2022)
- Key producing assets include Bongkot, Arthit, Contract 4 and S1
- G1/61 (Erawarn) transition completed
- G2/61 (Bongkot) transition in process
 (1st 200mmscfd commenced in Apr 2022)

Southeast Asia

Strategic Area

- 23% of total sales volume, mainly from Malaysia and Myanmar (3M2022)
- Recent multiple petroleum discoveries in Malaysia including Lang Lebah
- New exploration block in Malaysia, Sabah SB412
- Other producing assets in Vietnam (oil) and Indonesia (gas)

Middle East

Strategic Area in Oman and UAE

- 14% of total sales volume (3M2022)
- Oman: 4 onshore blocks including PDO (Block 6), largest producing oil asset, and Block 61, largest tight gas development

Piped Gas

Oil GAS/LNG

 UAE: 3 offshore and 1 onshore exploration blocks

Australia

Potential gas development

• Sizable undeveloped gas resources in Timor Sea

Note: As of March 2022

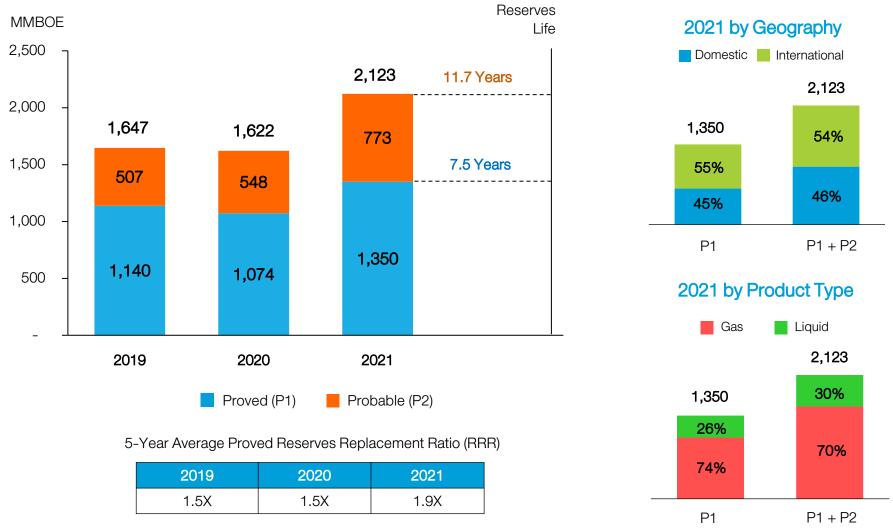
* Subject to local security situation

Africa

Gas/LNG

PTTEP Overview | Reserves





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

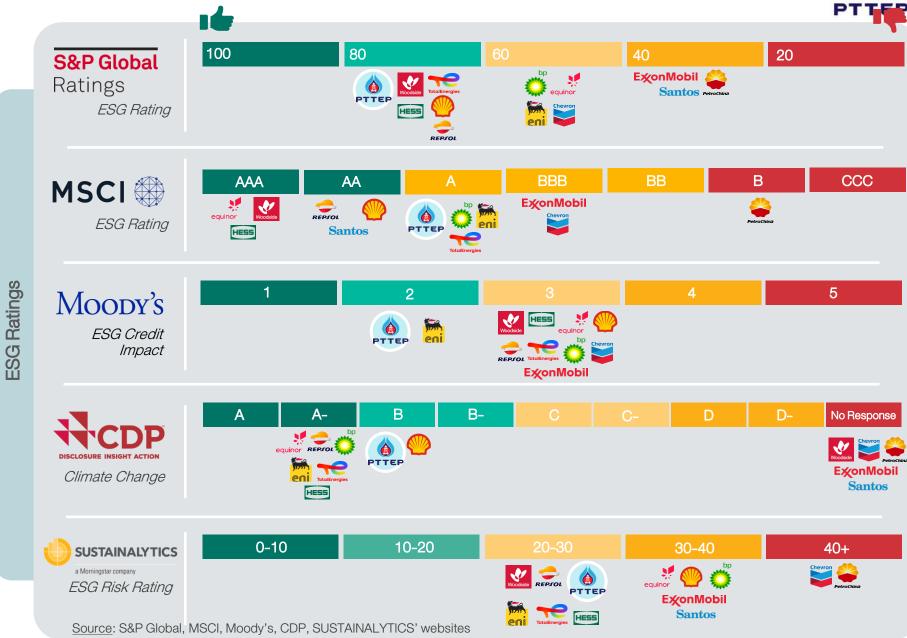
Figures include reserves from equity method

SD & ESG | Disclosure and Ratings









SD & ESG | Targets and Progress Q1/2022



13 CLIMATE ACTION

GHG Management

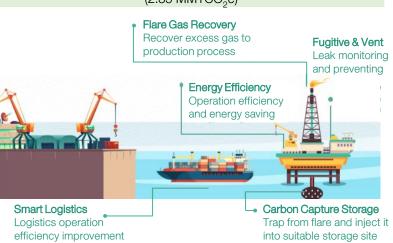
GHG Intensity Reduction Target **25%** By 2030 (2012 base year)

Net Zero By 2050

♦PROGRESS

Reduction of GHG Emission Intensity

As of 2021, **24.1% Reduction** (2012 base year) (2.35 MMTCO₂e)



CCUS Study

CNT from flare gas: Ongoing FEED Study for CNT Pilot Unit at S1



CO2 to carbonate-based product: Ongoing to fabricate prototype testing unit

CCS: Ongoing CCS Pre-FEED at ART and LLB

Circular Model



Zero Waste to Landfill by 2030

≥50% of Main Structure Reuse by 2030

♦PROGRESS

Waste to Landfill



Upcycling High Volume Waste

Sand to Zeolite: Successfully synthesized prototype zeolite from nano-silica and further identify potential use case (moisture absorbent)

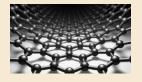




Oil sludge conversion to Graphene: Complete prototype unit fabrication







Ocean for Life



Net Positive Impact

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

≥50%

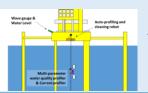
Increase in Local community income vs baseline by 2030

◆PROGRESS◆

Ocean Health & Biodiversity Monitoring

Pilot Project of Seagrass
Plantation
at Koh Samui and
Koh Taen, Surat Thani





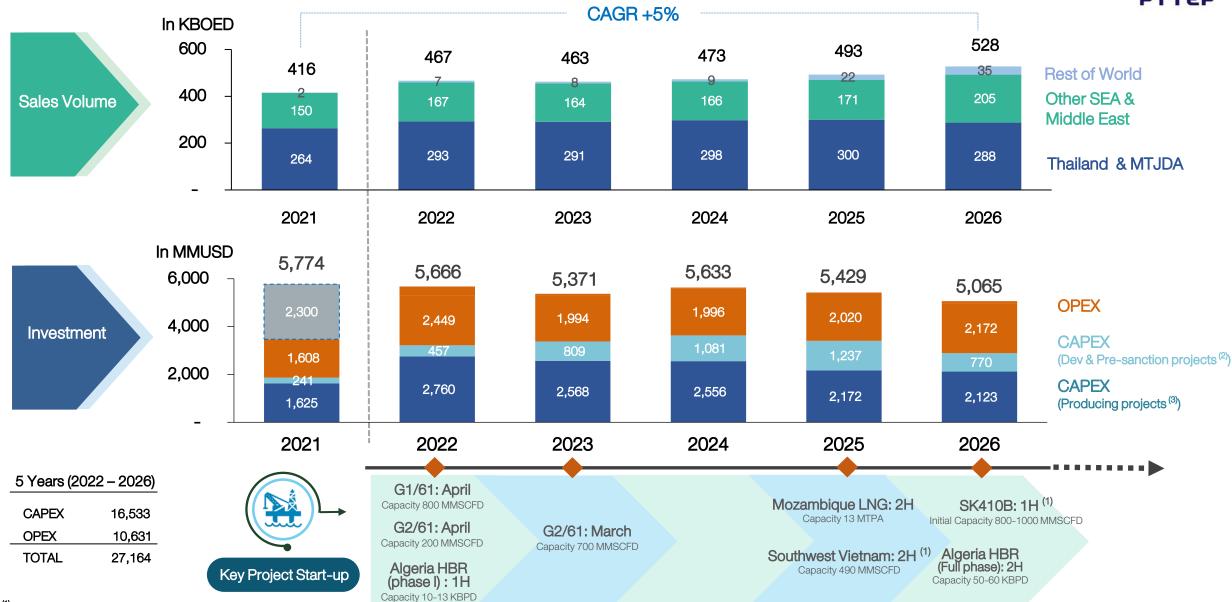
Develop Meteorological & Oceanographic (Met-Ocean) Data Station at ART

Ramp Up CSR around Ocean Flagship Projects



Finance | 5-year Sales Volume & Investment Budget



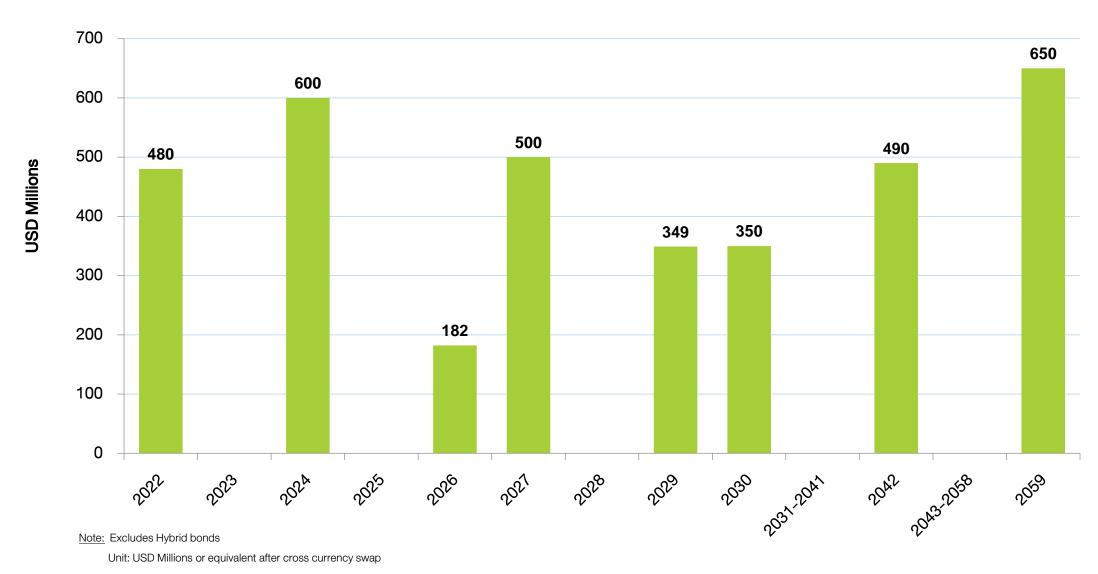


Note: (1) Subject to regulatory approval and FID timing

⁽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

Finance | Debt Maturity Profile





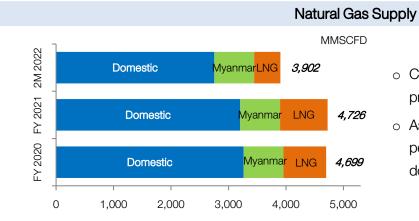
As of March 2022

Thailand | Market Update

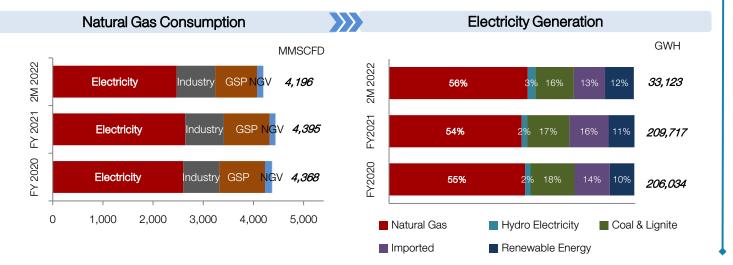
34.2 (High)

31.5 (Low)

Thailand Energy Overview

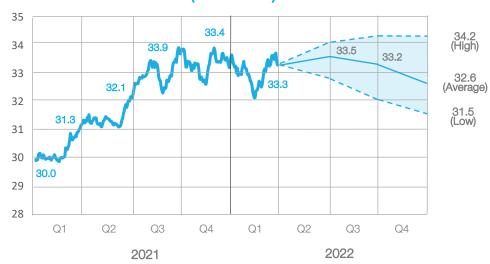


- o Constant in energy demand, while the energy prices continue to soar
- As of February 2022, compared with the same period of last year: significantly declined in domestic supply and lower LNG imports.



Source: Energy Policy and Planning Office (EPPO)

Exchange Rate Movement (USD/THB)



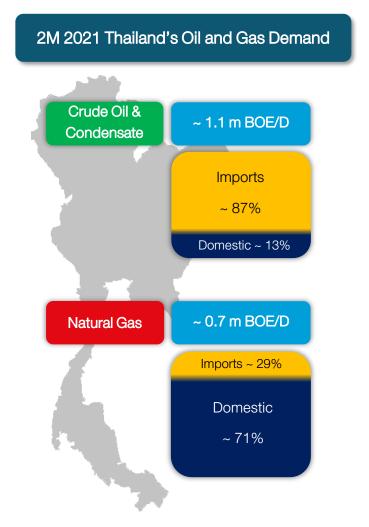
Consensus on the exchange rate mostly depends on

- o Thailand economic recovery in particular the tourism sector
- Bank of Thailand and Federal Reserve monetary policy tightening schedule
- o Geopolitical tensions and uncertainty from the Russia-Ukraine war

Source: Bank of Thailand, Bloomberg Forecast based on Bloomberg Consensus as of 31 March 2022

Thailand | Energy Value Chain

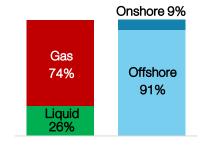




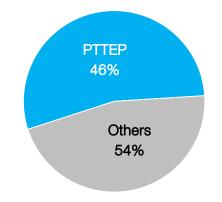


3M 2022 Thailand Petroleum Production





% Production by Company





Gas: operated by PTT

Transmission Pipelines
Gas Separation Plants

Oil: PTT participates through subsidiaries

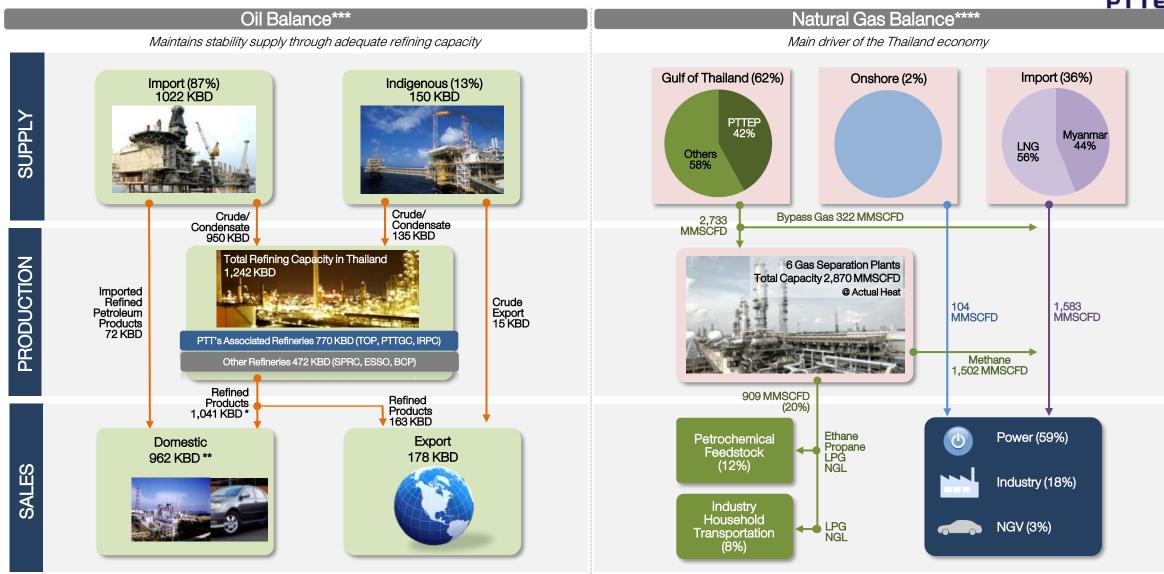
Refineries

Downstream

Petrochemicals
Oil and gas marketing

Thailand | Oil and Gas Balance





Source: PTT

e: * Refined product from refineries = 958 KBD, including domestic supply of LPG from GSPs and Petrochemical Plants = 83 KBD

- ** Not included Inventory
- *** Information as of 2M 2022

**** Information as of Year 2021 MMSCFD @ Heating Value 1,000 Btu/ft³

Projects | Thailand, Myanmar and Malaysia



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 326 MMSCFD for 3M2022

Project Status

Production

- Zawtika (80% WI)
- Yadana (25.5% WI)Yetaqun* (19.3% WI)
- FDP M3 (100% WI)

Thailand

Production / Ramp-up Projects

Bongkot (66.6667% WI)

Average natural gas and condensate sales volume of 819 MMSCFD and 22 KBPD in 3M2022

S1 (100% WI)

The largest onshore crude oil production field in Thailand with 3M2022 average crude oil sales volume of 25 KBPD Arthit (80% WI)

Average sales volume in 3M2022 was 277 MMSCFD of natural gas and 15 KBPD of condensates

Contract 4 (60% WI)

Average sales rate of 403 MMSCFD for natural gas and 16 KBPD for condensate in 3M2022

G1/61 (60% WI)

- Operatorship transfer completed. Current production rate of 250-300MMSCFD.
- Sole investment 100%

G2/61 (100% WI)

 GBS transition completed at production rate of 200 MMSCFD.



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 3M2022 was 32* KBPD of crude oil and 27* MMSCFD of natural gas

SK309 and SK311 Project: (59.5% WI)

For East Patricia field (42% WI)

 Average production volume in 3M2022 was 193* MMSCFD of natural gas and 20* KBPD of condensates and crude

Block H Project:

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

- First gas early February 2021 with average production volume in 3M2022 at 275 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

Sabah SB412

- New block awarded from 2021 Malaysia Bid Round
 - The project is under preparation for Exploration activities.

Note: WI – working interest

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Projects | Vietnam and Indonesia





Vietnam



Vietnam 16-1 (28.5% WI)

- Average sales volume of crude oil was 13 KBPD in 3M2022
- In 2022, the project has plan to drill 2 development wells in Q3 - Q4/2022.



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 199 MMSCFD in 3M2022



Production projects

Pre sanction projects

Projects | Middle East



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)

Sharjah Onshore Area C

- High gas & condensate potential with the possibility of integrating with surrounding fields
- Located in the central part of Sharjah Emirate, United Arab Emirates
- Operated by Eni Abu Dhabi B.V. (50% 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 Sharjah AGP Onshore Area C 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 660 KBPD for 3M2022
- 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 94 KBPD for 3M2022
- 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

Projects | Rest of the World



Algeria Bir Sebah Block 433a & 416b PVEP 40% (operator), PTTEP 35% Hassi Bir Rekaiz Blocks 443a, 424a, 414ext & 415ext for Crude Oil. Sonatrach 51% (operator), PTTEP 49%

Mexico

Mexico block 12 (2.4)

- Non-operating partner with 20% participating interest
- Located in the Mexican Ridges, western Gulf of Mexico
- Currently evaluating the petroleum potential for further way forward

Mexico block 29 (2.4)

- Non-operating partner with 16.67% participating interest
- Located in the Campeche, southern Gulf of Mexico
- 2 successful deep-water oil discoveries in May 2020
- Currently undergoing a pre-development study

Mozambique

Mozambique Area 1

- High quality reservoirs capable up to 200mmscfd per well
- LNG capacity 13.1 MTPA (2 trains)
- TotalEnergies 26.5% (operator), PTTEP 8.5%
- Construction phase

Brazil

Barreirinhas AP1

- 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



Projects Details | Thailand



								FITCE
	Project Name	Status	Phase	Participating Intere	st* (%)	Sales Vol Gas (MMSCFD)	Sales Vol Liquid (KBPD)	Latest Status
1	Arthit	Operator	Production	PTTEP Chevron MOECO	80% 20% 4%	277	15	 Increase Sales Gas DCQ from 220 to 280 MMSCFD in Feb'22
2	B6/27	Operator	Production	PTTEP	100%	-	-	Prepare for decommissioning activities
3	B8/32 and 9A	JV	Production	PTTEP Chevron MOECO KrisEnergy Palang Sophon	25.01% 51.66% 16.71% 4.63% 2%	50	11	 Ensure gas deliverability level at DCQ Drill development wells Preparation for wellhead platform reuse in 2022-23
4	Bongkot	Operator	Production	PTTEP TotalEnergies	66.67% 33.33%	819	22	 Infills drilling for BKT Sole investment Maintain production level as planned Carry out wells plug and abandonment, Pipeline cleaning and Hg decontamination Wellhead platform & sealine and FSO1 PLEM Decommissioning (Nontransferred asset)
5	CT3 (formerly Unocal III)	JV	Production	PTTEP Chevron MOECO	5% 71.25%	206	13	Decommissioning activities
6	CT4 (formerly Pailin)	JV	Production	PTTEP Chevron MOECO	60% 35% 5%	403	16	 Ensure gas deliverability level at DCQ Drill development wells Topside reuse
7	E5	JV	Production	PTTEP EXXON MOBIL	20% 80%	8	-	Ensure gas deliverability level at DCQ

^{**} Sales volume represent average volume for 100% of the project during Q1/2022

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

^{****} DCQ = Daily Contractual Quantity

Projects Details | Thailand



								PTTEP
	Project Name	Status	Phase	Participating I	nterest* (%)	Sales Vol Gas (MMSCFD)	Sales Vol Liquid (KBPD)	Latest Status
8	G4/43	JV	Production	PTTEP Chevron MOECO Palang Sophon	21.375% 51% 21.25% 6.375%	1	2	Deliver production volumes as nominated from the buyer and oil production as planned
9	G4/48	JV	Production	PTTEP Chevron MOECO	5% 71.25% 23.75%	1	0.1	Decommissioning activities
10	L53/43 & L54/43	OP	Production	РТТЕР	100%	-	0.5	 On-going 5th drilled well Plan to complete 6 wells around mid of Apr'22 and commence 1st oil by Jul'22 Plan for production facilities debottlenecking and relocation projects to handle additional gross production from new wells.
11	PTTEP1	OP	Production	PTTEP	100%	-	0.2	 Maintain production plateau Relocate facilities from PTTEP1 to L54/43 to be minimized CAPEX cost
12	S1	OP	Production	PTTEP	100%	8	Crude: 25 KBPD LPG: 183 MTon/Day	 Production optimization and long-term development plan are on-going for business plan and work activities identification according to 10 years strategy
13	Sinphuhorm	OP	Production	PTTEP Apico EXXON MOBIL	55% 35% 10%	95	0.3	 Ensure gas deliverability Preparing the drilling campaign for 2 wells during Q2 - Q4 2022
14	L22/43	OP	Production	PTTEP	100%	-	-	 On-going execution plan of total 5 drilling wells scheduled in Q4 2022. Plan to prepare for the resume production or exit strategy in future after drilling results confirmed.

Note: * PTTEP denotes respective PTTEP subsidiaries participating in the project

^{**} Sales volume represent average volume for 100% of the project during Q1/2022

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

Projects Details | Thailand



	Project Name	Status	Phase	Participating Intere	Participating Interest* (%)		Sales Vol Liquid (KBPD)	Latest Status
15	MTJDA	JOC	Production	PTTEP Petronas Carigali	50% 50%	260	10	Facility Readiness for Additional Gas to DP1 (Thailand) for 30-50 MMSCFD
16	G9/43	OP	Exploration	PTTEP	100%	-	-	Activity suspended
17	G1/61 (Erawan)	OP	Exploration	PTTEP Mubadala	60% 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 platform site survey under Site Access Agreement#2, construction of facilities, staff recruitment, and related procurement activities, aiming for successful transition and gas production as per commitment. Signed Gas, Crude and Condensate Sale agreements
18	G2/61 (Bongkot)	OP	Exploration	РТТЕР	100%	-	-	 Awarded as a sole operator under PSC (after concession-end in 2022/2023) Signed Gas and Condensate Sale agreements Continue drilling development wells

Note: * PTTEP denotes respective PTTEP subsidiaries participating in the project

^{**} Sales volume represent average volume for 100% of the project during Q1/2022

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

Projects Details | Myanmar, Malaysia, Other SEA



	Project Name	Status	Phase	Participating I	Interest* (%)	Sales Vol Gas (MMSCFD)	Sales Vol Liquid (KBPD)	Latest Status
1	Block K (Malaysia)	OP (Kikeh & SNP)	Production			(IVIIVISOFD)	(KBPD)	SNP Phase 2 development well commenced production. GK Phase 3
·	- Kikeh - Siakap-North Petai field (SNP) - Gumusut-Kakap field (GK)	JV (GK)	Troduction	PTTEP	Kikeh 56% SNP 22.4% GK 7.17%	32 **	27 **	development drilling commenced by Unit Operator.
2	Sarawak SK309 and SK311 (Malaysia)	OP	Production	PTTEP	42 – 59.5%	193 **	20 **	 Pemanis Gas Development and South Acis Satellite infill oil development drilling completed and commenced production
3	Block H (Malaysia)	OP	Production	PTTEP	42 – 56%	275 **	-	Continue at higher production 280+ MMSCFD
4	Malaysia – Other projects	OP	Exploration	PTTEP	42.5 - 80% (varied by permits)	-	-	 <u>SK410B</u>: Plan to drill 1 exploration well in 200 and expected FID in 2023 for LLB <u>SK417, SK405B, SK438</u>: Planning and preparing for the drilling of appraisal and exploration wells in 2022 exploration campaign. <u>SB412</u>: Preparing for exploration activities.
5	Yadana (Myanmar)	JV	Production	PTTEP TotalEnergies Chevron MOGE	25.5% 31.24% 28.26% 15%	732	-	 Be appointed to be an Operator with effective in Jul'22. Under process of operatorship transfer
6	Yetagun (Myanmar)	JV	Production	PTTEP Petronas- Carigali MOGE Nippon Oil	19.3178% 40.91018% 20.4541% 19.3178%	44	-	Maintain the production volume after resuming production in Oct'21.
7	Zawtika: M9 & a part of M11 (Myanmar)	OP	Production	PTTEP Myanma Oil and Gas Enterprise (MOGE)	80% 20%	326	-	 Some activities are delayed and process under difficulty due to the COVID-19 and political situation in Myanmar.

^{**} Sales volume represent average volume for 100% of the project during Q1/2022 except Malaysia (Production volume 100%)/ For Block K, gross production is net off unitization status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship / JV = PTTEP Joint Venture Partner

Projects Details | Myanmar, Malaysia, Other SEA



	Project Name	Status	Phase	Participating I	nterest* (%)	Sales Vol Gas (MMSCFD)	Sales Vol Liquid (KBPD)		Latest Status
8	M3 (Myanmar)	OP	Exploration	PTTEP	100%	-	-	• ,	Waiting for approval of PSC Supplementary
9	MD-7 (Myanmar)	OP	Exploration	PTTEP TotalEnergies	50% 50%	-	-	•	Termination process in progress
10	9-2 (Vietnam)	JOC	Production	PTTEP Vietnam Oil and Gas Group Pharos Energy	25% 50% 25%	12	4		Maintain production level Procurement for drilling campaign of 1 development well
11	16-1 (Vietnam)	JOC	Production	PTTEP Vietnam Oil and Gas Group Pharos Energy OPECO	28.5% 41% 28.5% 2%	2	13		Maintain production level Procurement for drilling campaign of 2 development wells
12	B & 48/95 (Vietnam)	JV	Exploration	PTTEP Vietnam Oil and Gas Group MOECO	8.5% 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
13	52/97 (Vietnam)	JV	Exploration	PTTEP Vietnam Oil and Gas Group MOECO	7% 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
14	Natuna Sea A (Indonesia)	JV	Production	PTTEP Premier Oil KUFPEC Petronas Pertamina	11.5% 28.67% 33.33% 15% 11.5%	199	1	•	Maintain production level

^{**} Sales volume represent average volume for 100% of the project during Q1/2022

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

Projects Details | Middle East



	Project Name	Status	Phase	Participating Intere	st* (%)	Sales Vol Gas (MMSCFD)	Sales Vol Liquid (KBPD)	Latest Status
1	Abu Dhabi Offshore 1 (UAE)	JV	Exploration	PTTEP Eni Abu Dhabi	30% 70%	-	-	 Being evaluated for petroleum potential to support future exploration, including G&G report
2	Abu Dhabi Offshore 2 (UAE)	JV	Exploration	PTTEP Eni Abu Dhabi	30% 70%	-	-	Continued drilling the first exploration well
3	Abu Dhabi Offshore 3 (UAE)	JV	Exploration	PTTEP Eni Abu Dhabi	30% 70%	-	-	G&G study is on-going
4	Sharjah Onshore Area C (UAE)	JV	Exploration	PTTEP Eni Abu Dhabi SNOC	25% 50% 25%	-	-	 Completed the acquisition of 25% interest on 1 March 2022 Seismic activity is on-going.
5	PDO Block 6 (Oman)	JOC	Production	PTTEP Government of Oman Shell TotalEnergies	2% 60% 34% 4%	-	660 **	Normal operations with daily production around 600 KBD
6	Mukhaizna (Oman)	JV	Production	PTTEP Occidental OOCEP Indian Oil Mubadala	1% 47% 20% 17% 15%	-	94 **	Normal operations with daily production around 95 KBD

Note: * PTTEP denotes respective PTTEP subsidiaries participating in the project

^{**} Sales volume represent average volume for 100% of the project during Q1/2022 except for PDO Block 6 and Mukhaizna (Production volume 100%)
*** Status: OP = PTTEP operatorship / JOC = PTTEP joint operatorship/JV = PTTEP Joint Venture Partner

Projects Details | Middle East



	Project Name	Status	Phase	Participating Intere	st* (%)	Sales Vol Gas (MMSCFD)	Sales Vol Liquid (KBPD)	Latest Status
7	Oman Onshore Block 12	JV	Exploration	PTTEP Total E&P Oman Block 12 B.V.	20% 80%	-	-	 3D seismic reprocessing (original 3D) in progress 3D seismic acquisition (new 3D) is in process for tendering
8	Oman Block 61	JV	Production	PTTEP BP Makarim Gas Development LLC PC Oman Ventures Limited (PETRONAS)	20% 40% 30% 10%	1,471	61	Full production capacity of natural gas and condensate in according to the Sales and Purchase Agreement

^{**} Sales volume represent average volume for 100% of the project during Q1/2022

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

Projects Details | Rest of the World



	Project Name	Status	Phase	Participating Inte	erest* (%)	Sales Vol Gas (MMSCFD)	Sales Vol Liquid (KBPD)	Latest Status
1	PTTEP Australasia (PTTEP AA)	OP	Exploration	PTTEP	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
2	Mozambique Area 1	JV	Development	PTTEP TotalEnergies, Mitsui, ENH, OVL OVRL & Oil India , Bharat	8.5% 26.5%,20% 15%, 10% 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	PTTEP PetroVietnam Sonatrach	35% 40% 25%	-	17 **	 Drilling of 2 development wells are on-going in Q1 2022. Target to tie-in and produce 2 new wells in 2022 Existing wells intervention Production respect OPEC+ policy
4	Algeria Hassi Bir Rekaiz	OP	Development	PTTEP Sonatrach	49% 51%	-	-	 Continue drilling development wells Expected first oil production for the initial phase of around 10,000-13,000 barrels per day (BPD) in Q2 2022 Groupement (JOC) establishment in Q2 2022
5	Mariana Oil Sands (Canada)	OP	Exploration	PTTEP	100%	-	+	• -
6	Brazil Barreirinhas AP1	JV	Exploration	PTTEP Shell Brasil Mitsui E&P Brasil	25% 65% 10%	-	-	Waiting for exploration wells drilling permit from the government

^{**} Sales volume represent average volume for 100% of the project during Q1/2022 except for Algeria 433a & 416b (production volume)

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

Projects Details | Rest of the World



	Project Name	Status	Phase	Participating Inte	erest* (%)	Sales Vol Gas (MMSCFD)	Sales Vol Liquid (KBPD)	Latest Status
7	Brazil BM-ES-23	JV	Exploration	PTTEP Petrobras INPEX	20% 65% 15%	-	-	Evaluating the petroleum potential for development concept
8	Mexico block 12 (2.4)	JV	Exploration	PTTEP PC Carigali Mexico Ophir Mexico	20% 60% 20%	-	-	Evaluating the petroleum potential for further way forward
9	Mexico block 29 (2.4)	JV	Exploration	PTTEP Repsol Mexico PC Carigali Mexico Wintershal DEA	16.67% 30% 28.33% 25%	-	-	• Field pre-development study is in progress.
10	Block 17/06 (Angola)	JV	Pre-development	PTTEP TotalEnergies Sonangol SSI Acrep Falcon Oil	2.5% 30% 30% 27.5% 5%	-	-	 Plan to FID in the middle of 2022 for the eastern area Finalized Internal committees and Stakeholders alignment leading to Begonia FID Launched Forsythia and Gardenia development study on 18 January 2022
11	Dunga (Kazakhstan)	JV	Production	PTTEP TotalEnergies OOCEP	20% 60% 20%	2	11	 Procurement process Compression package and Gathering Lines Engineering of Separation Upgrade, Flare package and facilities Facilities modification works

^{**} Sales volume represent average volume for 100% of the project during Q1/2022

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



Projects Details | Mid-stream

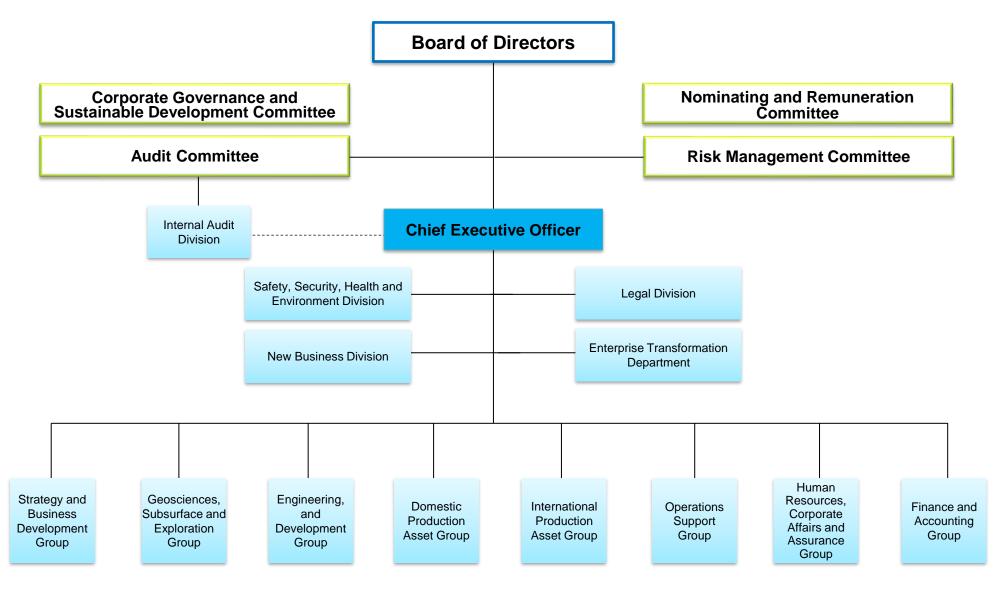
	Project Name	Status	Phase	Participating I	Participating Interest* (%)		Sales Vol Liquid (KBPD)	Latest Status
1	Oman LNG [OMAN]	Shareholder	Production	PTTEP Government of Oman Shell TotalEnergies Korea LNG Mitsubishi Mitsui Itochu	2% 51% 30% 5.54% 5% 2.77% 2.77% 0.92%	-	-	Normal Operations
2	ADNOC Gas Processing [UAE]	JV	Production	PTTEP ADNOC Shell TotalEnergies	2% 68% 15% 15%	-	-	 Perform midstream operation activities Maintain production and plant integrity with maintenance work as planned

^{**} Sales volume represent average volume for 100% of the project during Q1/2022

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

Organization Chart





Ratio and Formula



6.842

8.001

0.172

39.683

46.405

1.000

58.000

1.000

0.022

0.125

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				

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 / Trailin	g-12-month EBITI	DA					
EBITDA								
EBITDA Interest	Trailing-12-mon	th EBITDA / Trailing	g-12-month Ir	nterest Expe	nses & Amor	tization of		
Coverage Ratio	Bond Issuing Co	st						
Crude oil			To convert					
Crude oil	Tonnes (metric)	Kilolitres	To convert Barrels	US gallons	Tonr	nes/year		
Crude oil	. , ,		Barrels Multiply by	•	Tonr	nes/year		
From Tonnes (metric)	1	1.165	Barrels Multiply by 7.33	307.86	Tonr	nes/year -		
From Tonnes (metric) Kilolitres	1 0.8581	1.165 1	Barrels Multiply by 7.33 6.2898	307.86 264.17	Tonr			
From Tonnes (metric) Kilolitres Barrels	1 0.8581 0.1364	1.165 1 0.159	Barrels Multiply by 7.33 6.2898	307.86 264.17 42	Tonr			
From Tonnes (metric) Kilolitres Barrels US gallons	1 0.8581	1.165 1	Barrels Multiply by 7.33 6.2898	307.86 264.17		- - -		
From Tonnes (metric) Kilolitres Barrels	1 0.8581 0.1364	1.165 1 0.159	Barrels Multiply by 7.33 6.2898	307.86 264.17 42				
From Tonnes (metric) Kilolitres Barrels US gallons Barrels/day	1 0.8581 0.1364	1.165 1 0.159	Barrels Multiply by 7.33 6.2898 1 0.0238	307.86 264.17 42		- - -		
From Tonnes (metric) Kilolitres Barrels US gallons Barrels/day	1 0.8581 0.1364	1.165 1 0.159	Barrels Multiply by 7.33 6.2898 1 0.0238	307.86 264.17 42		- - -		
From Tonnes (metric) Kilolitres Barrels US gallons Barrels/day	1 0.8581 0.1364 0.00325 -	1.165 1 0.159 0.0038	Barrels Multiply by 7.33 6.2898 1 0.0238 - To convert	307.86 264.17 42 1		- - - - 49.8		
From Tonnes (metric) Kilolitres Barrels US gallons Barrels/day	1 0.8581 0.1364 0.00325 -	1.165 1 0.159 0.0038	Barrels Multiply by 7.33 6.2898 1 0.0238 - To convert Million tonnes oil	307.86 264.17 42 1 -		- - - - 49.8		
From Tonnes (metric) Kilolitres Barrels US gallons Barrels/day Natural gas and LNG	1 0.8581 0.1364 0.00325 -	1.165 1 0.159 0.0038	Barrels Multiply by 7.33 6.2898 1 0.0238 - To convert Million tonnes oil equivalent	307.86 264.17 42 1 -		- - - - 49.8		
From Tonnes (metric) Kilolitres Barrels US gallons Barrels/day Natural gas and LNG	1 0.8581 0.1364 0.00325 - Billion cubic Metres NG	1.165 1 0.159 0.0038 - Billion cubic feet NG	Barrels Multiply by 7.33 6.2898 1 0.0238 - To convert Million tonnes oil equivalent Multiply by	307.86 264.17 42 1 - Million tonnes LNG	Trillion BTU	- - - 49.8 MBOE		

41.071

48.028

1.035

6.003

1.000

1.169

0.025

0.146

1 million tonnes oil equivalent

1 million tonnes oil LNG

1 trillion British thermal units

1 million barrels oil equivalent

1.163

1.360

0.029

0.170