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**Dow Jones
Sustainability Indices**

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Investor Presentation

Nomura Investment Forum Asia 2022

8 June 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.



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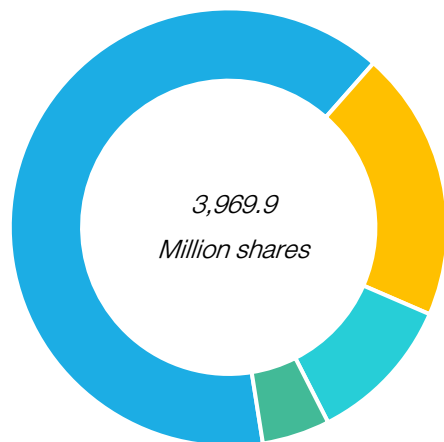
Company Introduction



PTTEP Overview | E&P Flagship of PTT Group



Shareholding Structure



PTT Group 64%

Local
Institutions 20%

Foreign
Institutions 11%

Retails 5%

As of latest book closing Aug 2021

Stock Quote
Market Capitalization
Sales Revenue
Cash Cost

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

Operating Framework



2014-2021



2016-2021



2016-2021



Level "A"



Level "B"

Strategy

HPO & Thrive in Lower Carbon Future

Sustainable E&P business

- ☐ Go for Gas
- ☐ 1st Quartile Unit Cost
- ☐ Production ~700KBOED by 2030

Diversification beyond E&P

- ☐ NI 20% by 2030
- ☐ ARV, Power, CCU

Greenhouse Gas Management

- ☐ Net Zero 2050
- ☐ CCS

Sustain Business Integrity Excellence

GRC role model

Create Shared Values

Circular Model for E&P

Ocean for Life "Guardian of the Ocean"

PTTEP Overview | Diversified asset portfolio



Central Asia

Kazakhstan

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

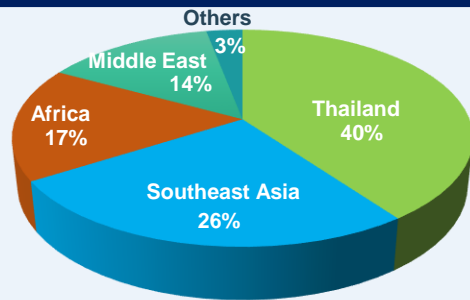
North America

Opportunities in an early phase:

- Deepwater exploration in Mexico

Book Value of Assets by region

Total assets USD 24.14 billion



As of Mar 2022

Africa

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*

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
- UAE: 3 offshore and 1 onshore exploration blocks

Thailand

Home Base

- 63% of total sales volume (3M2022)
- Key producing assets include Bongkot, Arthit, Contract 4 and S1
- G1/61 (Erawan) 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)

Australia

Potential gas development

- Sizable undeveloped gas resources in Timor Sea

Note: As of March 2022

* Subject to local security situation



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Business Update



Key Focus Areas 2022

A large offshore oil rig is illuminated at night, with its complex structure of pipes, platforms, and cranes glowing against a dark blue sky and the dark ocean. The rig is supported by several large legs in the water. The lights create a strong reflection on the water's surface.

G1/61 & G2/61

Safe transition & accelerate ramp-up activities

Assets Monetization

SK410B (Lang Lebah)
FEED for FID in 2023

Exploration

21 exploration and appraisal wells in 4 countries

GHG & CCS

Emission intensity reduction and CCS rollout

Net Zero

Target Net Zero GHG Emissions by 2050

Diversification

ARV, GTP, CCU, Renewables, H2



Thailand

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
Total production rate 700MMSCFD



Malaysia

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 SK410B (Lang Lebah) - FID expected in 2023



Myanmar

Yadana

Appointed as new operator effective 20 July 2022
Operatorship transfer under preparation
Stake increases to 37%



UAE

Sharjah Onshore Area C

25% stake acquisition completed 1 March 2022
Proceed to do seismic activity



Mozambique

MZB LNG

1st Cargo expected in 2025 awaiting local security situation



Algeria

HBR-Phase I

1st Oil on 1 June 2022 contributing
4 KBOED this year



Business Update | Beyond E&P

AI & Robotics

- Business scaling up in progress

ROVULA

AI subsea inspection repair and maintenance (IRM)

SKYLLER

Smart Faming solution

varuna

Drone asset inspection

CARIVA

Healthcare ecosystem and services

Renewables - Solar

- 1st Pilot Solar energy project size 10MWp
- Supply electricity to S1
- FID mid 2022 / COD early 2023
- Pave way to future renewables project



Total Area ~ 40 acres (113 Rai) in Kamphangpet, NE Thailand

Gas To Power

300

MMSCFD

Upstream

370

KM

Pipelines

600

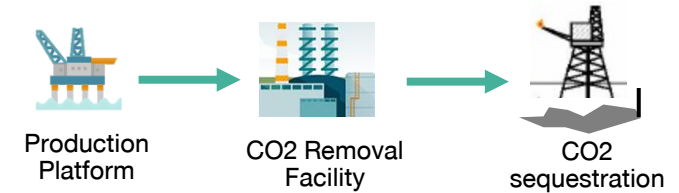
MWh

Power Plant

- USD 2bn investment GTP project
- Gas supply from M3 and M9
- Preparation work in progress
- FID 2023 / COD 2026

CCS

- Pilot projects : Arthit in Thailand and LLB in Malaysia
- Established Thailand CCS Project Taskforce
- MOU with INPEX and JGC to explore CCS opportunity in Thailand



CCU & H2



- MOU study green methanol for marine transportation
- Study H2 for future energy





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Net Zero Ambition



Our Net Zero Ambition

2020

Base Year

2030

30%

GHG Intensity*
Reduction

2040

50%

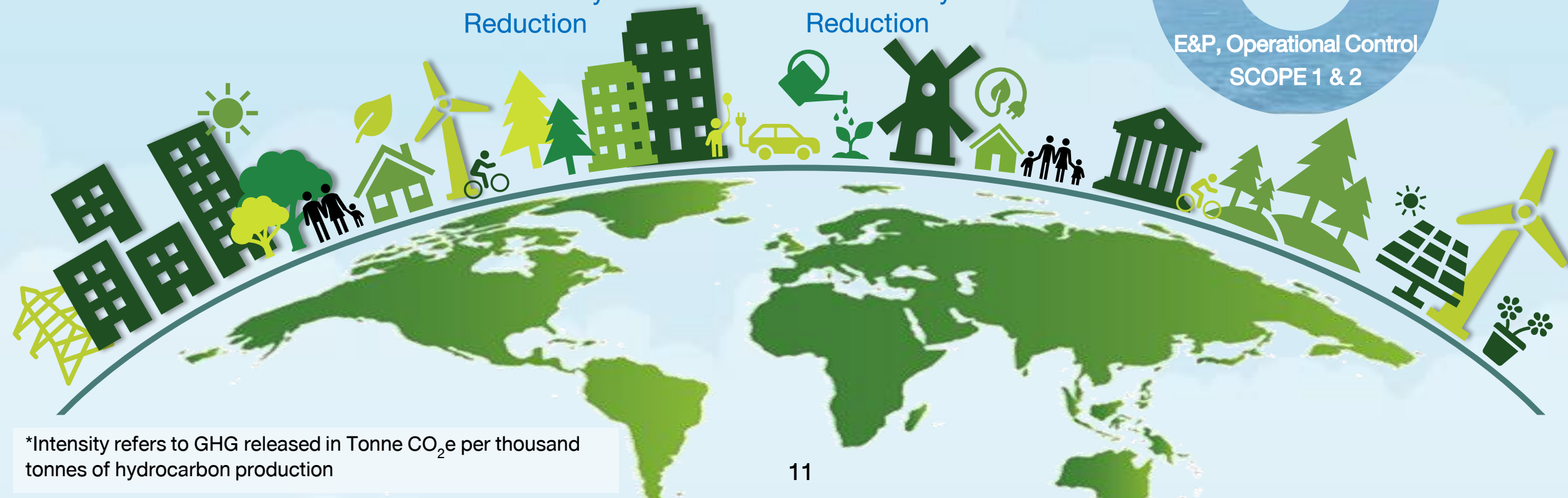
GHG Intensity
Reduction

2050

NET ZERO

Greenhouse Gas Emissions

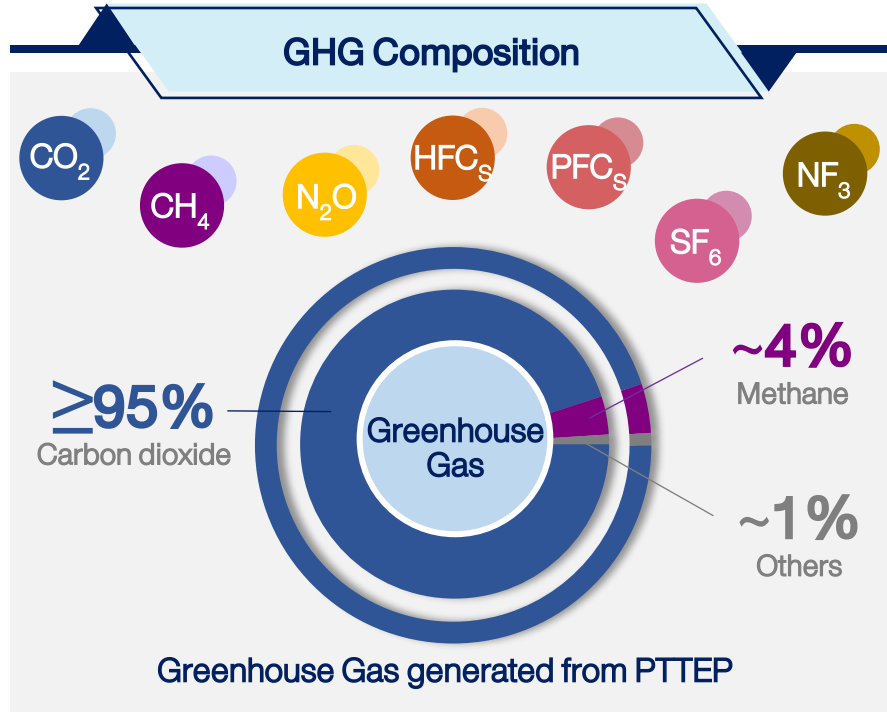
E&P, Operational Control
SCOPE 1 & 2



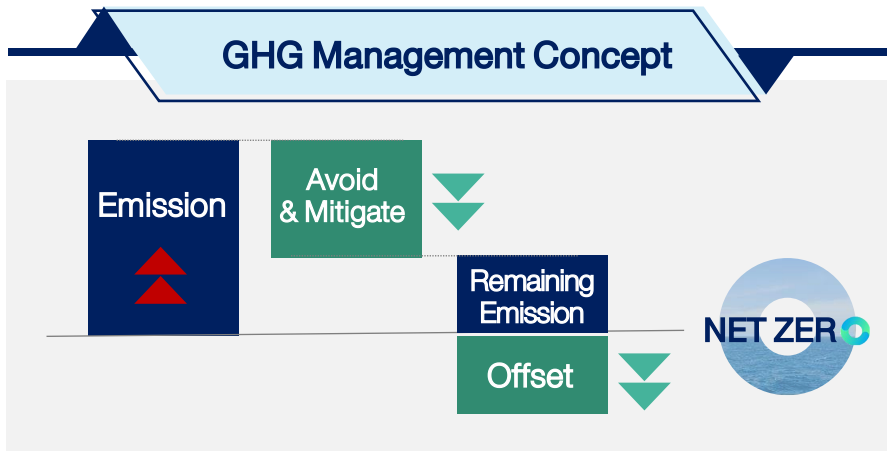
*Intensity refers to GHG released in Tonne CO₂e per thousand tonnes of hydrocarbon production

Pathway to Net Zero GHG Emissions

GHG Composition



GHG Management Concept



Net Zero Roadmap

Exploring for Lower Carbon E&P Portfolio



Production and Planet in Balance

Roadmap & Key Milestones

2021

2030

2040

2050
NET ZERO

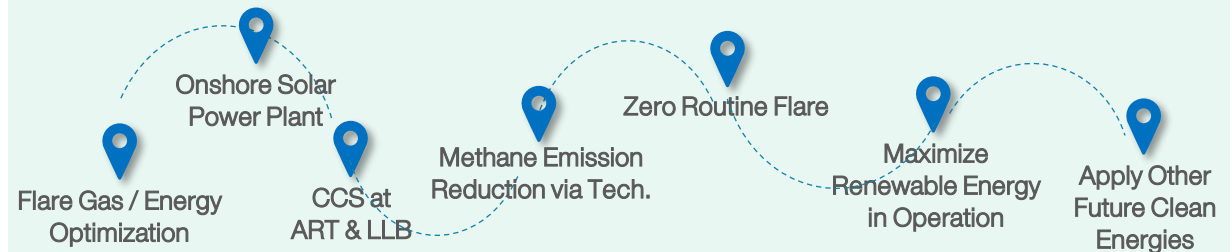
Greenhouse Gas Emissions
E&P, Operational Control
SCOPE 1 & 2

Avoid

Internal Carbon Price

Lower Carbon E&P Portfolio Management

Mitigate



Offset

Forestation Program and Blue Carbon Project
Other Offset Program through Ocean for Life



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Financial Results & Guidance

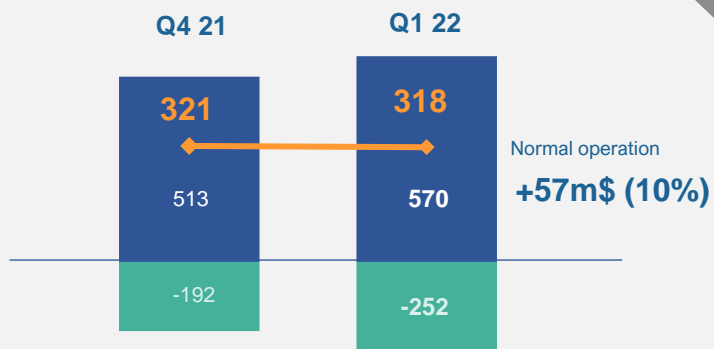





Results | Net Profit and Key Drivers

Net Profit

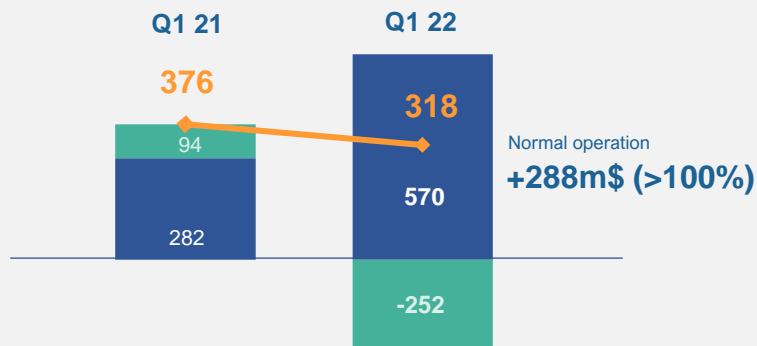
(in million USD)

QoQ



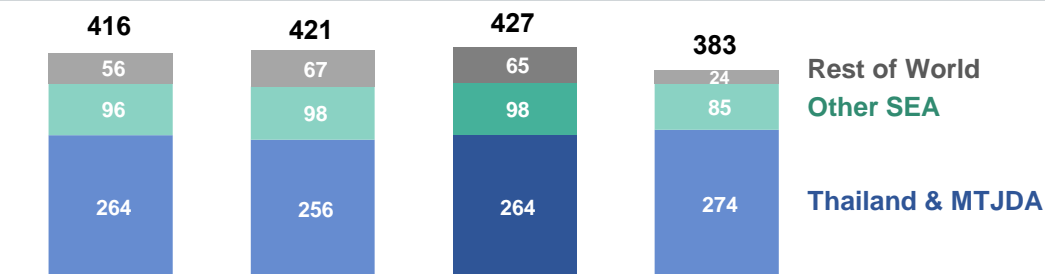
 **Net Profit**
 P/L from normal operation
 P/L from non-operating items (e.g. oil price hedging, impairments etc.)

YoY



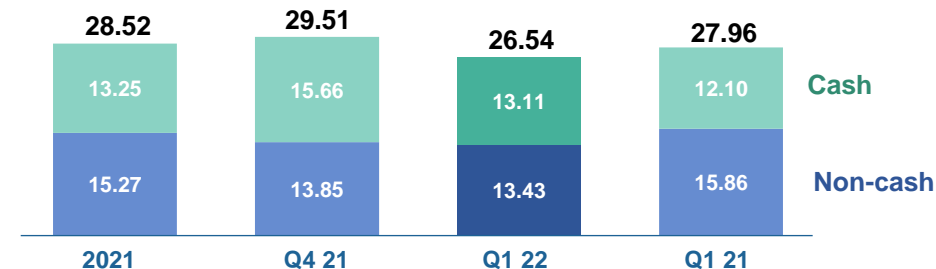
Sales Volume⁽¹⁾ (+2% QoQ, +12% YoY)

(in KBOED)



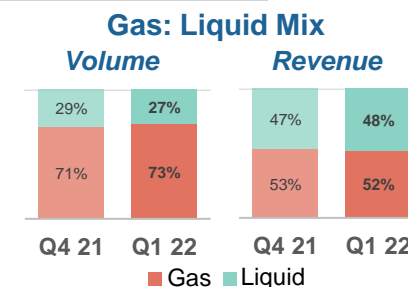
Unit Cost⁽²⁾

(-10% QoQ, -5% YoY) (in USD/BOE)



Average Selling Price (+10% QoQ, +27% YoY)

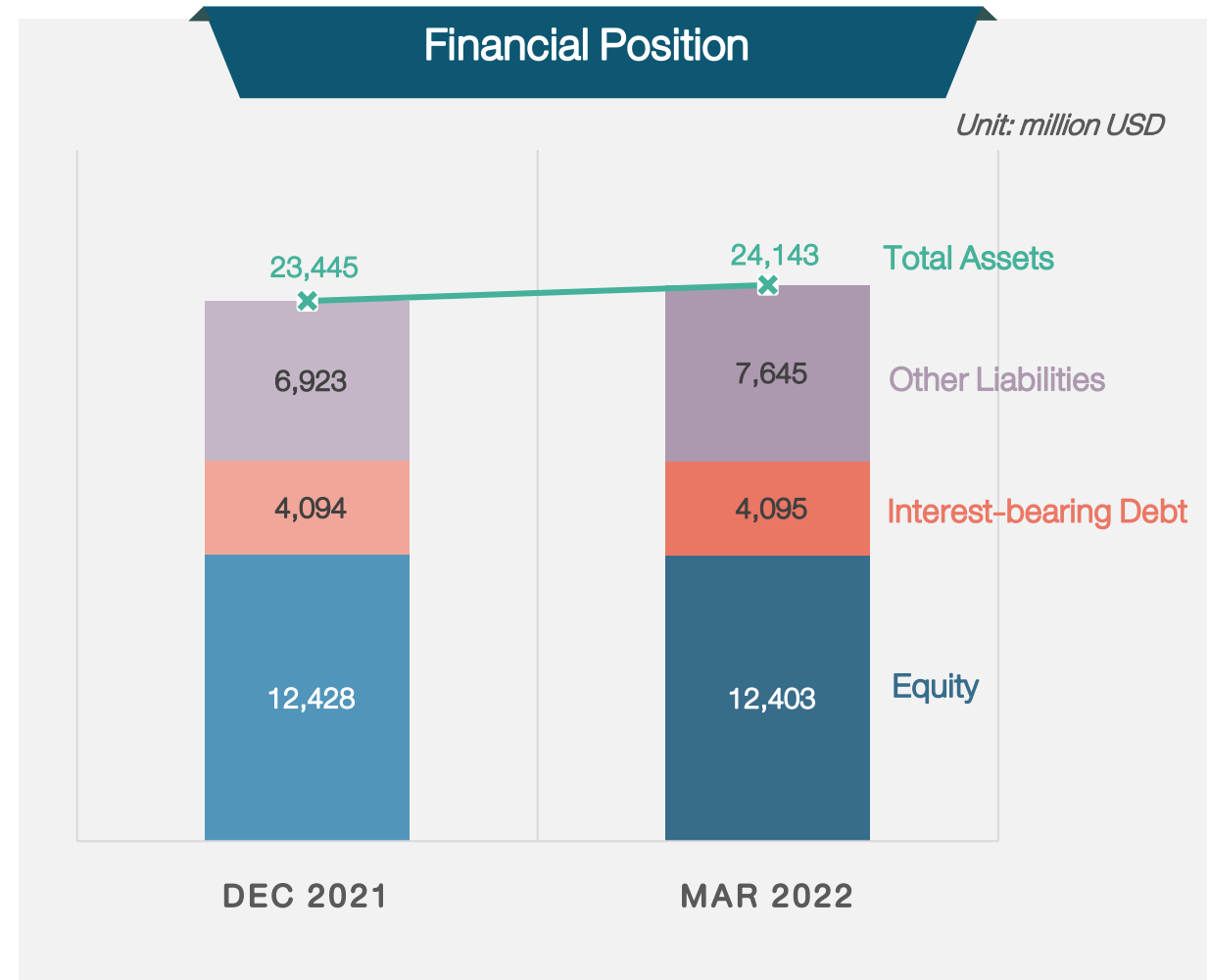
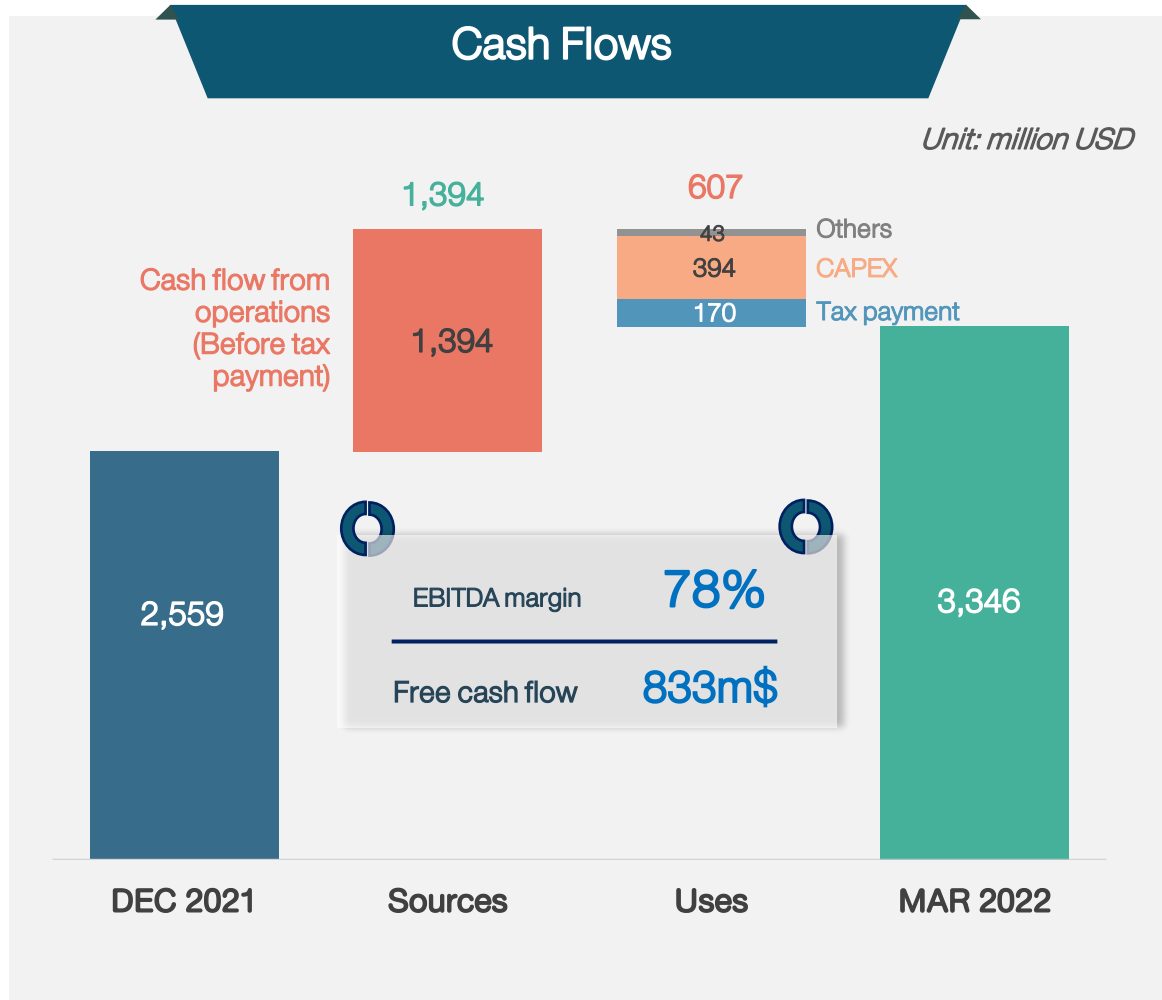
| | 2021 | Q4 21 | Q1 22 | Q1 21 |
|------------------------------------|--------------|--------------|--------------|--------------|
| Gas (\$/MMBTU) | 5.69 | 5.81 | 6.07 | 5.61 |
| Liquid (\$/BBL) | 66.70 | 76.17 | 91.19 | 56.59 |
| Avg. Selling Price (\$/BOE) | 43.49 | 46.87 | 51.35 | 40.38 |
| Avg. Dubai (\$/BBL) | 69.39 | 78.27 | 96.21 | 60.01 |
| Avg. HSFO (\$/BBL) | 64.42 | 71.38 | 87.96 | 56.74 |



Note: ⁽¹⁾ Include sales volume from ADNOC Gas Processing (AGP)
Exclude Oman Block 61 deemed sales volume from tax payment by government

⁽²⁾ Exclude Exploration assets write-off in Brazil for Q1 21
All Unit Cost shown above exclude costs related to new business

Results | Cash Flows and Financial Position



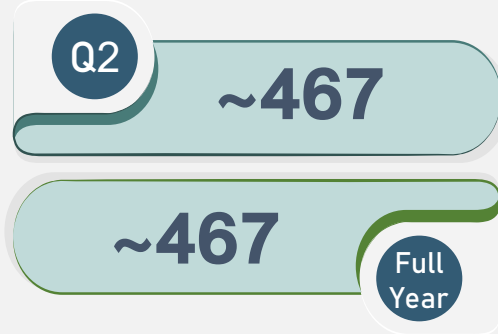
Note: * Include Short-term investment
Net of adjustment for the effect of exchange rate changes on cash and cash equivalents

Results | Financial Guidance and Debt Profile



Financial Guidance

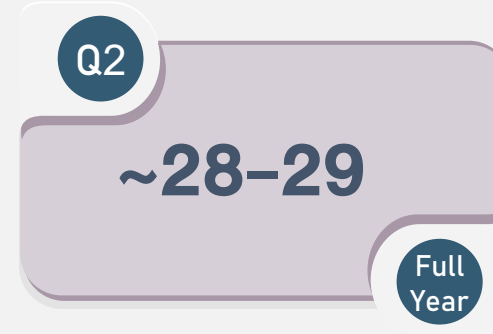
Average Sales Volume
KBOED



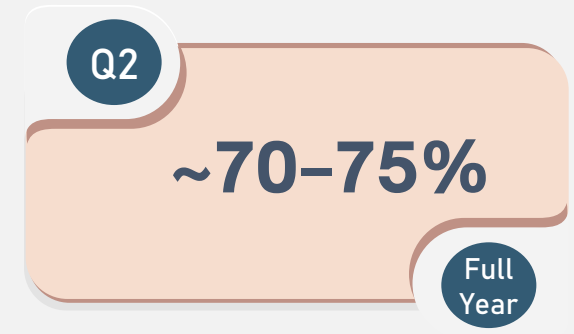
Average Gas Price*
USD/MMBTU



Unit Cost
USD/BOE



EBITDA Margin
% of Sales Revenue



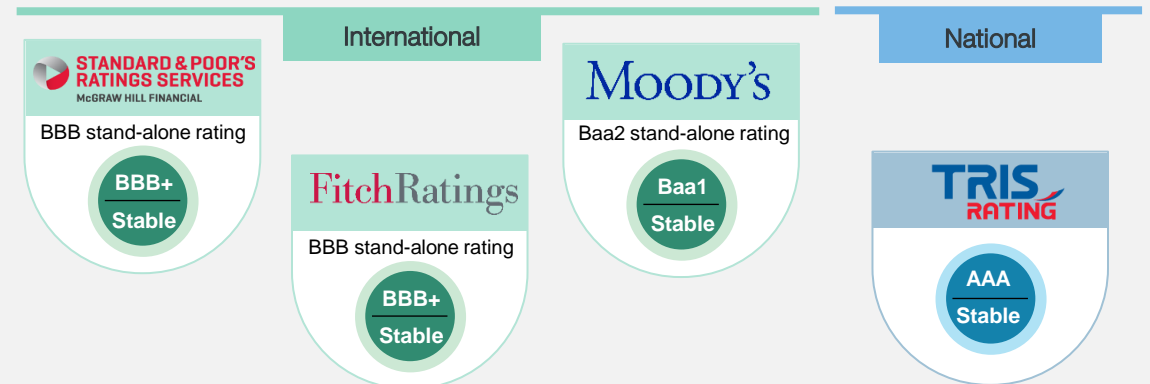
* Based on average Dubai oil price in 2022 at 96 \$/BBL, with sole investment in G1/61 (Erawan)

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

Credit Ratings





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Thank you and Q&A



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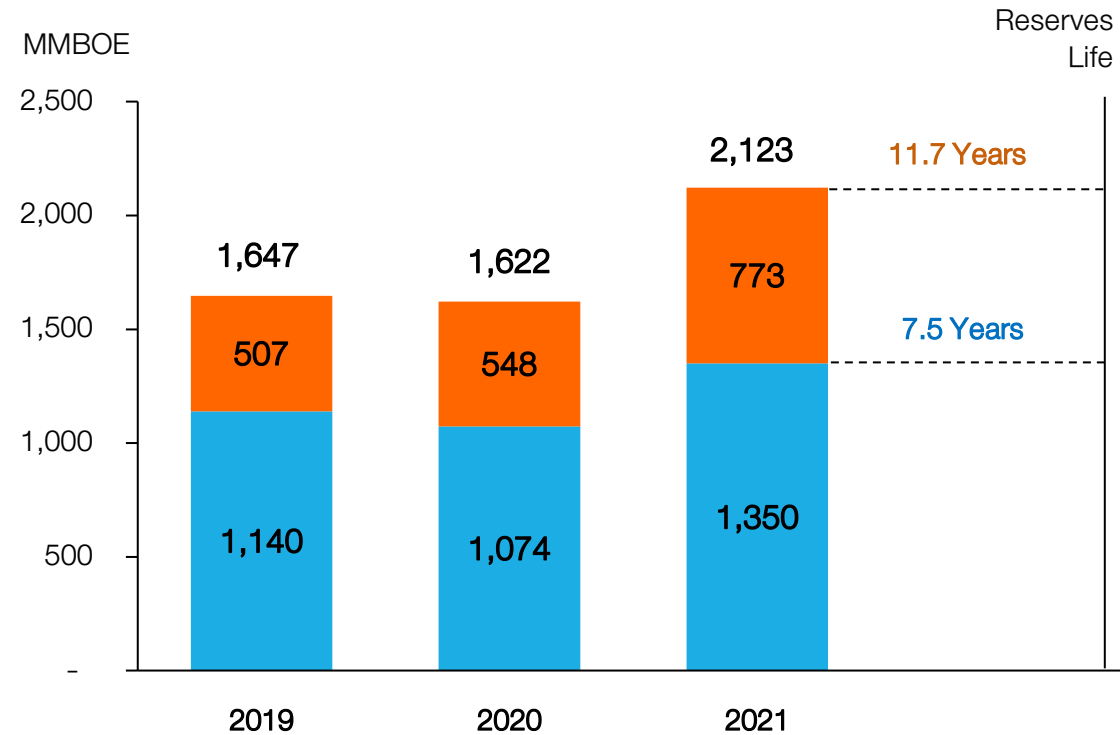
<http://www.pttep.com>

Supplementary information

| | |
|-----------------------------|-------|
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| ● SD/ESG | 20-21 |
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PTTEP Overview | Reserves



■ Proved (P1) ■ Probable (P2)

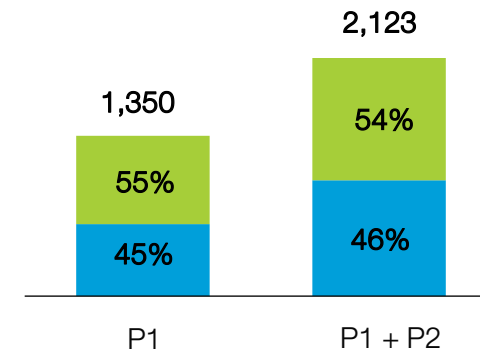
5-Year Average Proved Reserves Replacement Ratio (RRR)

| 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

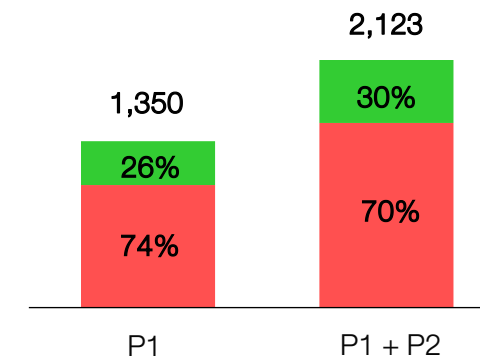
2021 by Geography

■ Domestic ■ International



2021 by Product Type

■ Gas ■ Liquid



SD & ESG | Disclosure and Ratings



ESG Standards

Global Reporting Initiative Reporting Standards (GRI Standards)

Oil and Gas Sector Disclosures (OGSD)

| | |
|-------------|---|
| ESG Ratings | <div><div></div><div>S&P Global Ratings</div><div>ESG Rating</div></div> <div><div>100</div><div>80</div><div>60</div><div>40</div><div>20</div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
|-------------|---|

SD & ESG | Targets and Progress Q1/2022



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)

Flare Gas Recovery
Recover excess gas to
production process

Fugitive & Vent
Leak monitoring
and preventing

Energy Efficiency
Operation efficiency
and energy saving

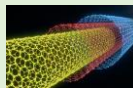


Smart Logistics
Logistics operation
efficiency improvement

Carbon Capture Storage
Trap from flare and inject it
into suitable storage site

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



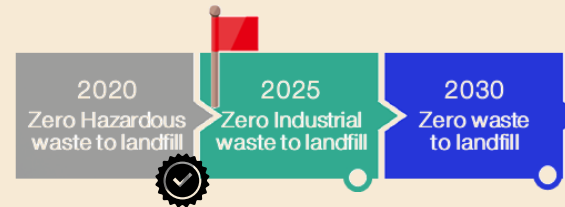
Circular Model

Zero Waste to Landfill by 2030

≥50% of Main Structure Reuse by 2030

◆ PROGRESS ◆

Waste to Landfill

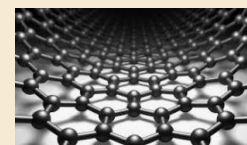


Upcycling High Volume Waste

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

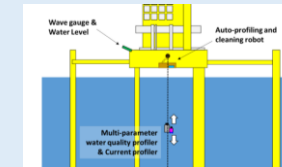
of Biodiversity & Ecosystem Services in
Offshore Operations vs baseline by 2030

≥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



• 3 New Area Selection for Aquatic
Animal Hatchery Learning Centers
(Chonburi, Sumut Prakarn, Samut Sakorn)

• 4,000 Rais Mangrove Forestation
Area Selection
(Chumphon, Surat Thani and Nakhon Si Thammarat)

• Established 15 Conservation Areas &
7.8 km² Fish Home Areas

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 |

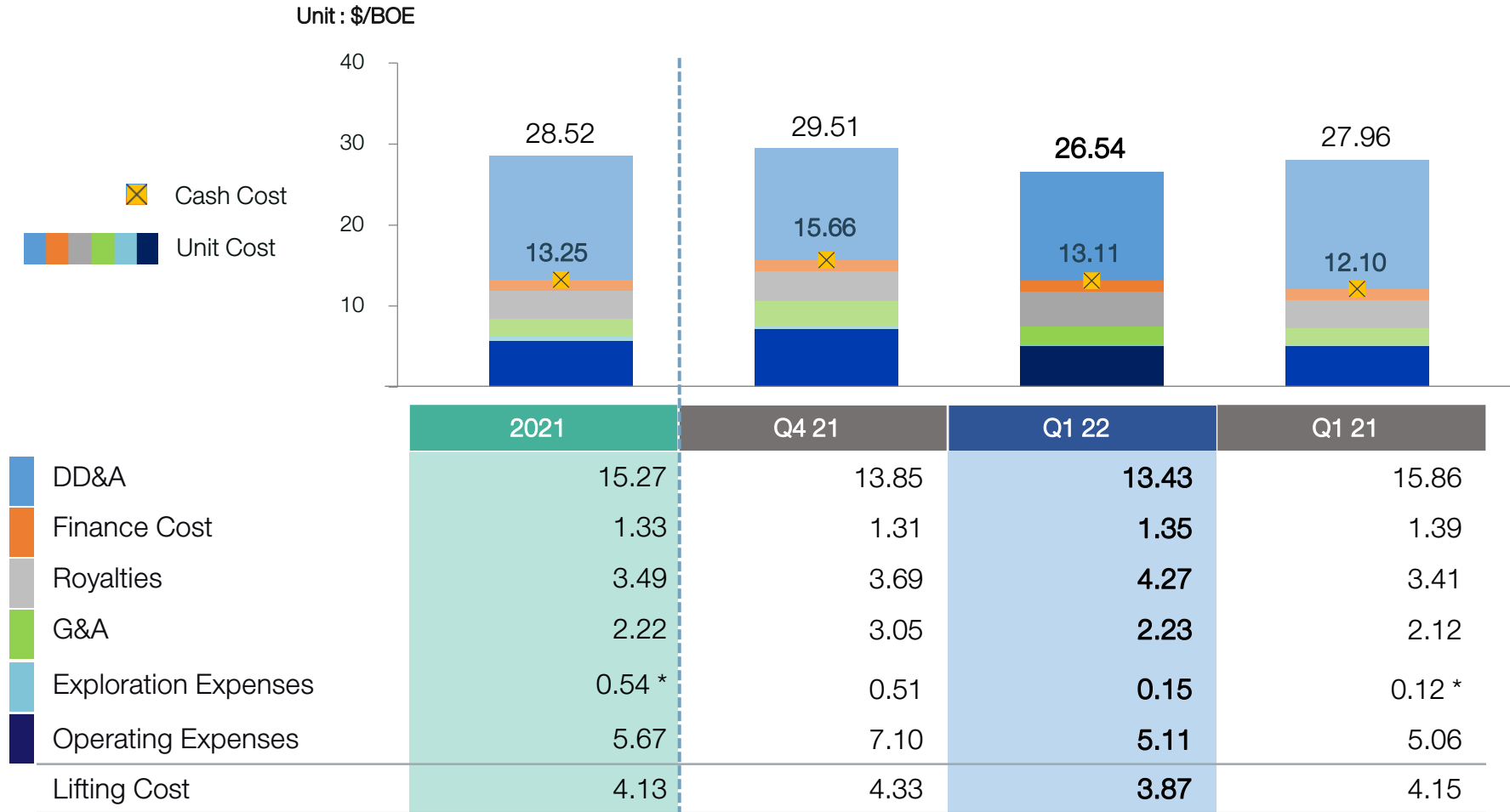
Note:

(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, and Malaysia Block K redetermination of participating interest in Q4'21

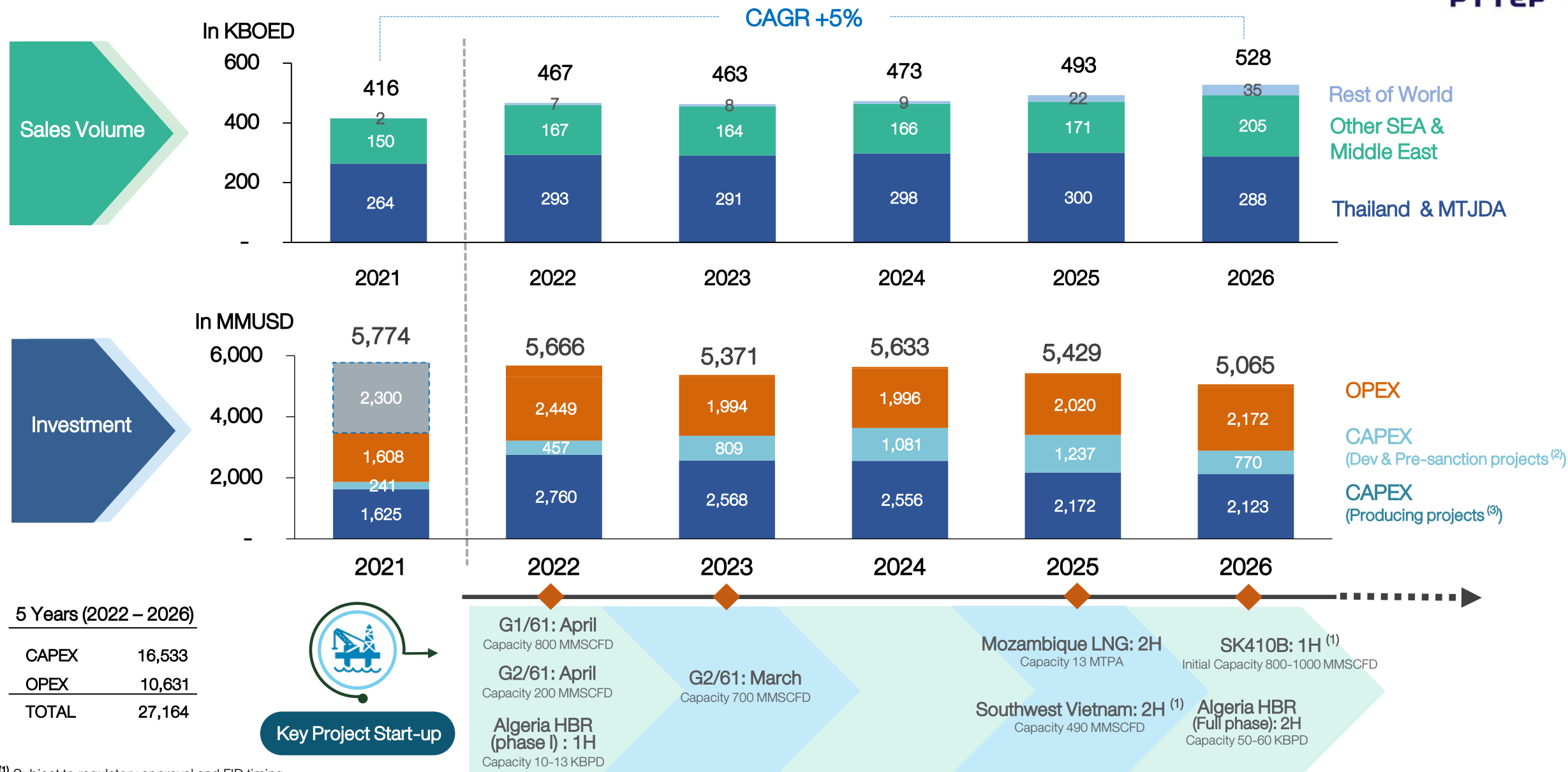
Results | Unit Cost



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

Finance | 5-year Sales Volume & Investment Budget

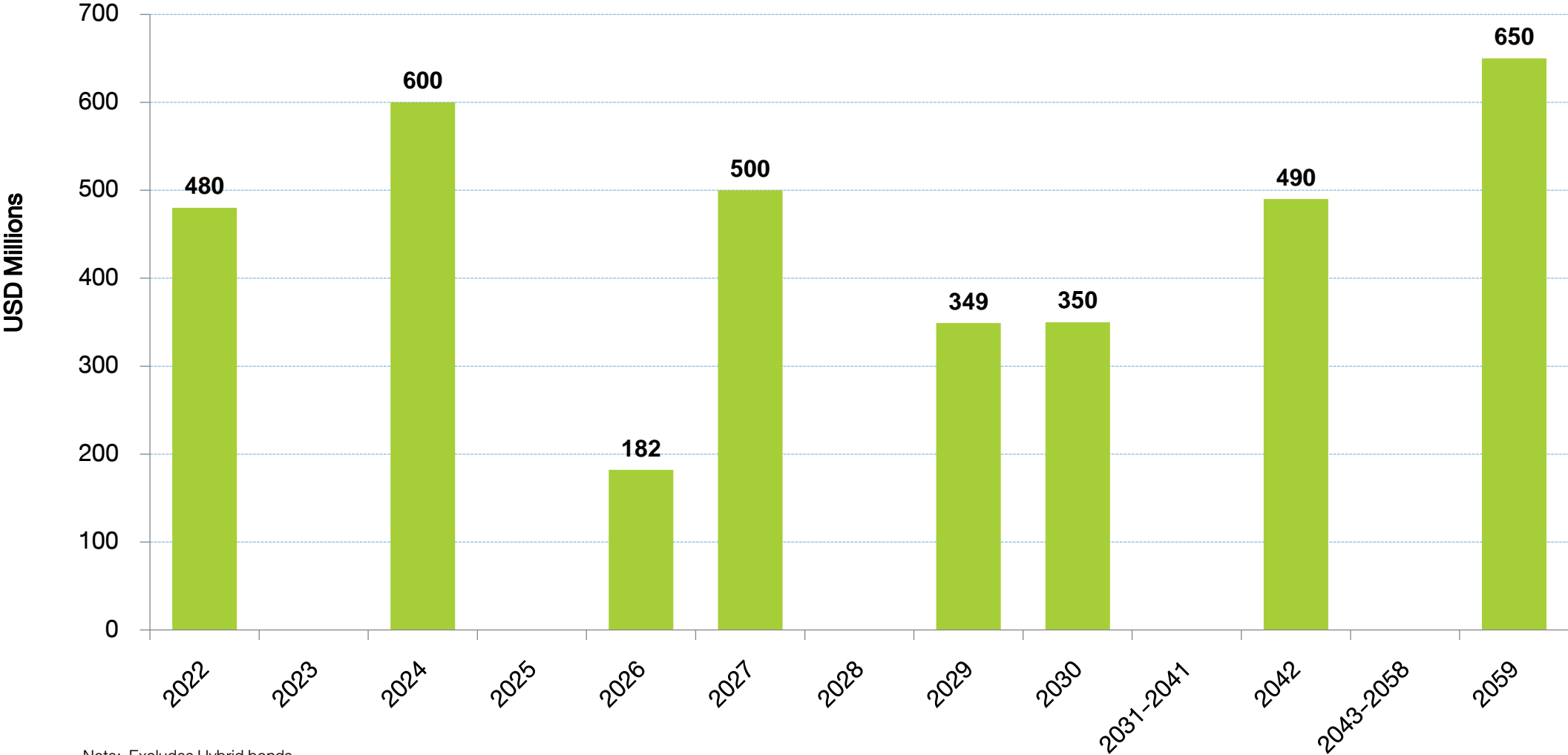
Not included Sole Investment in G1/61 (Erawan)



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

⁽²⁾ Development & Pre-sanction projects include Mozambique LNG , Algeria HBR, SK410B and Southwest Vietnam

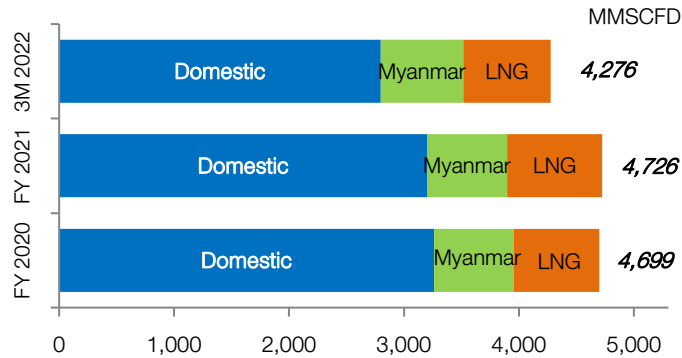
⁽³⁾ Including exploration and appraisal in all projects and head office CAPEX, and new businesses



Note: Excludes Hybrid bonds
Unit: USD Millions or equivalent after cross currency swap

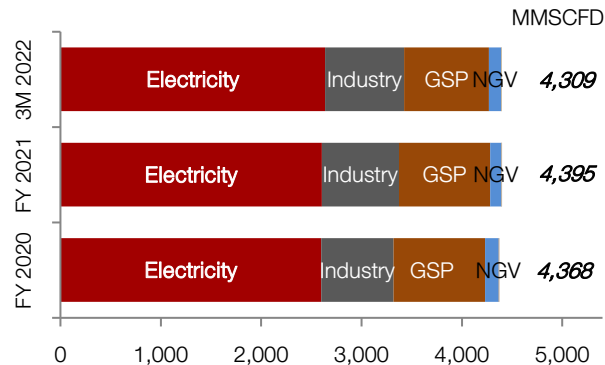
Thailand Energy Overview

Natural Gas Supply

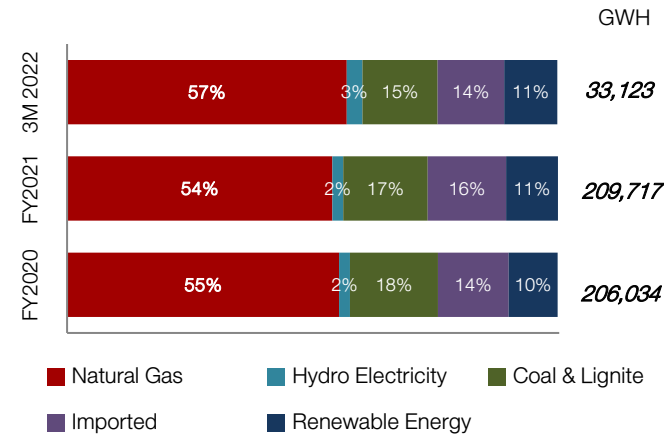


- Stable energy demand, while the energy prices continue to soar
- As of March 2022, compared with the same period of last year: significantly declined in domestic supply, while gas from Myanmar and LNG imports remained constant.

Natural Gas Consumption

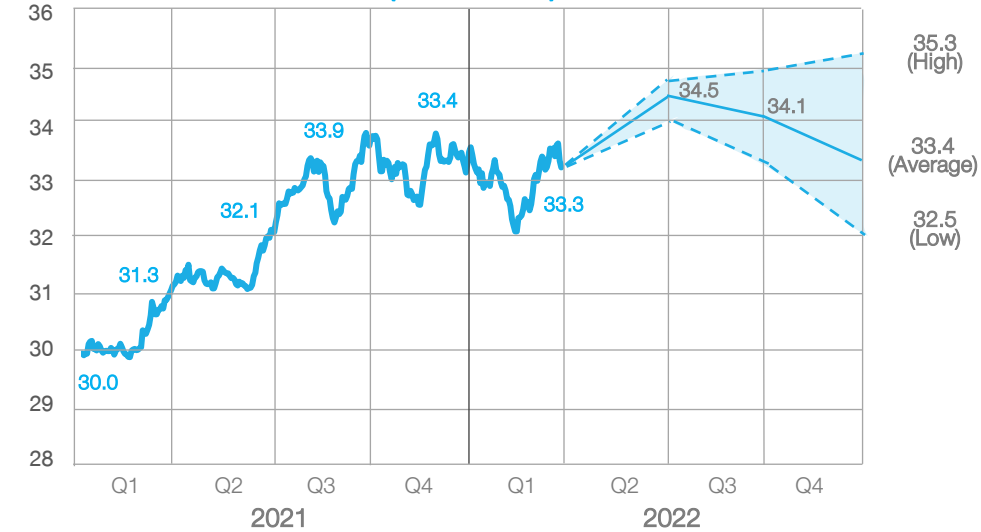


Electricity Generation



Source: Energy Policy and Planning Office (EPPO)

Exchange Rate Movement (USD/THB)



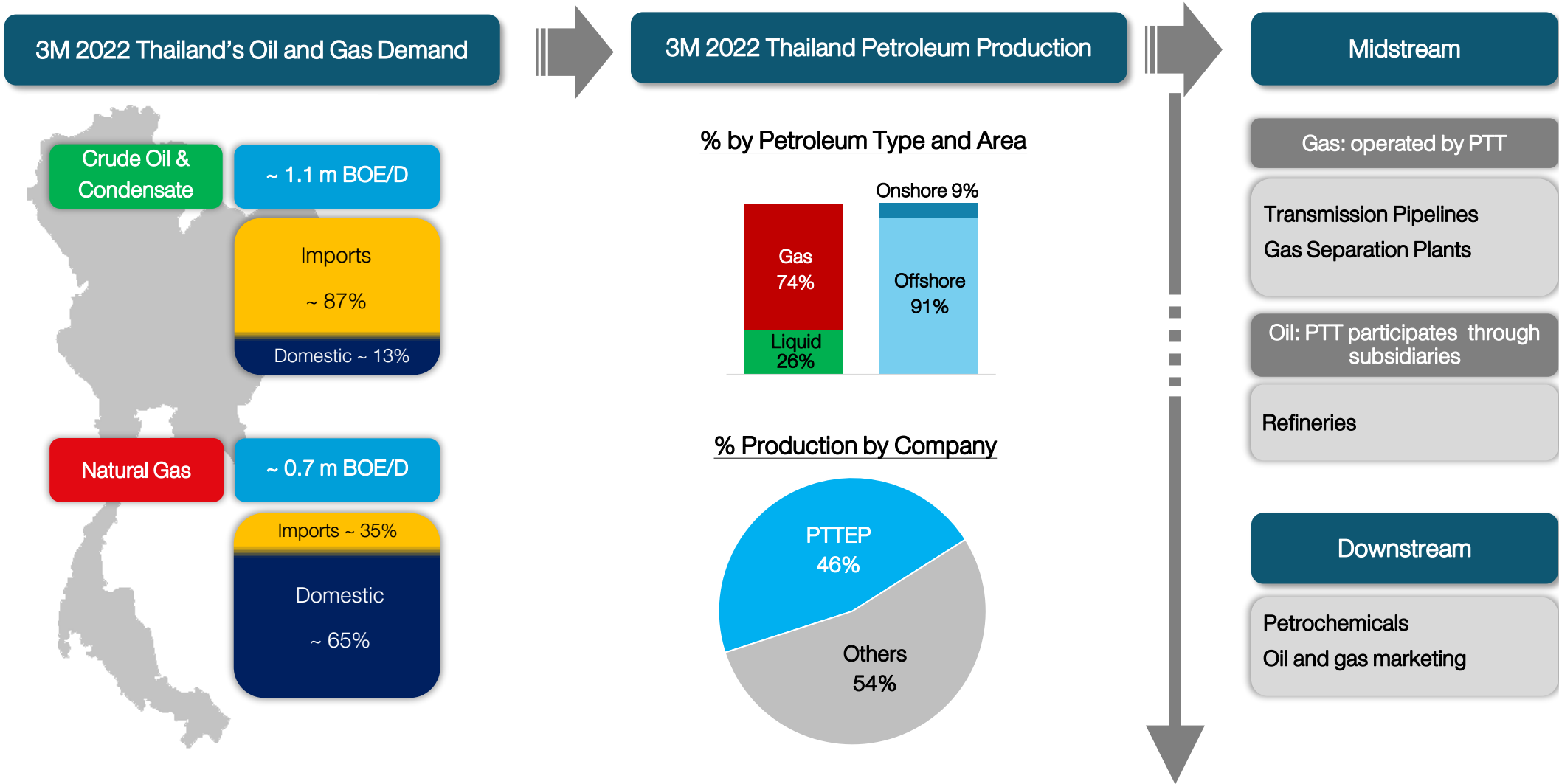
Consensus on the exchange rate mostly depends on

- Thailand economic recovery in particular the tourism sector
- Bank of Thailand and Federal Reserve monetary policy tightening schedule
- 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

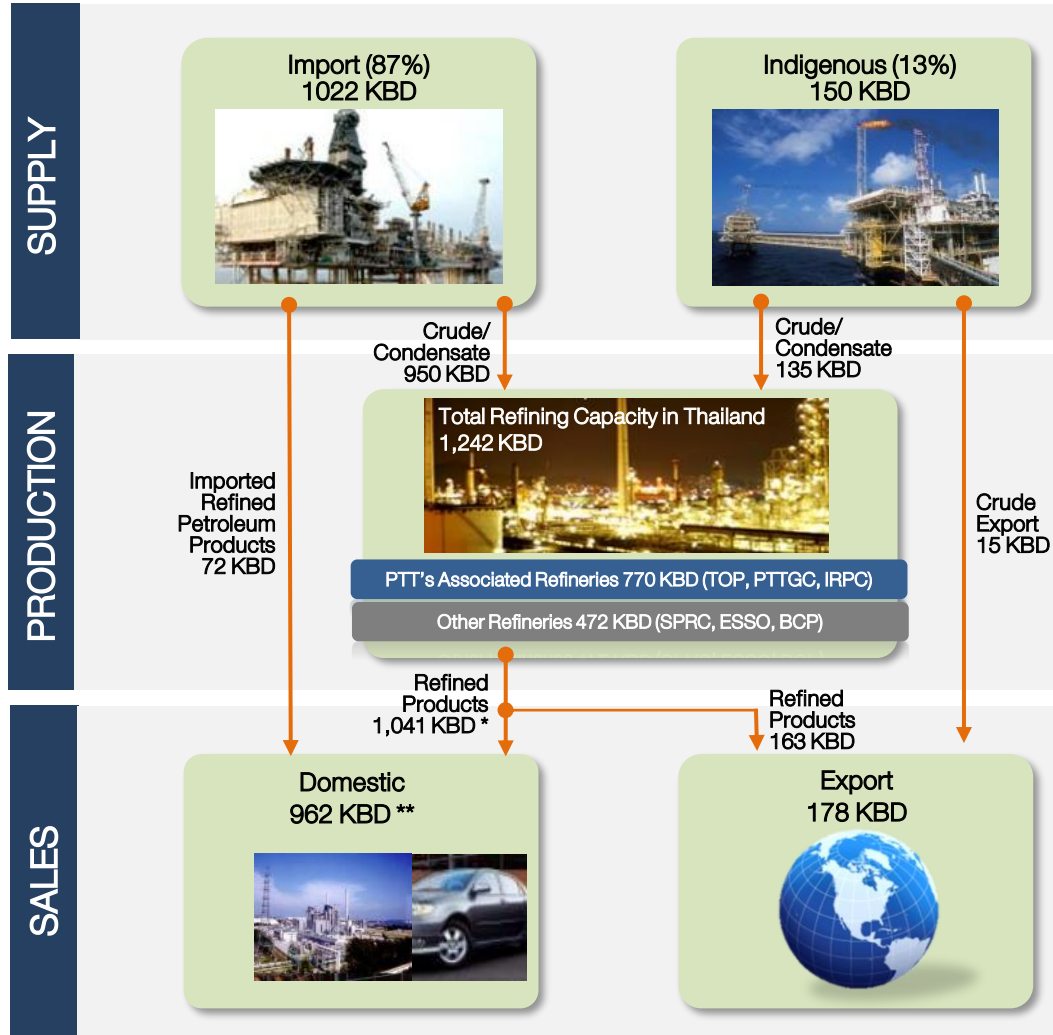


Source: Energy Policy and Planning Office (EPPO) and Department of Mineral Fuels (DMF)

Thailand | Oil and Gas Balance

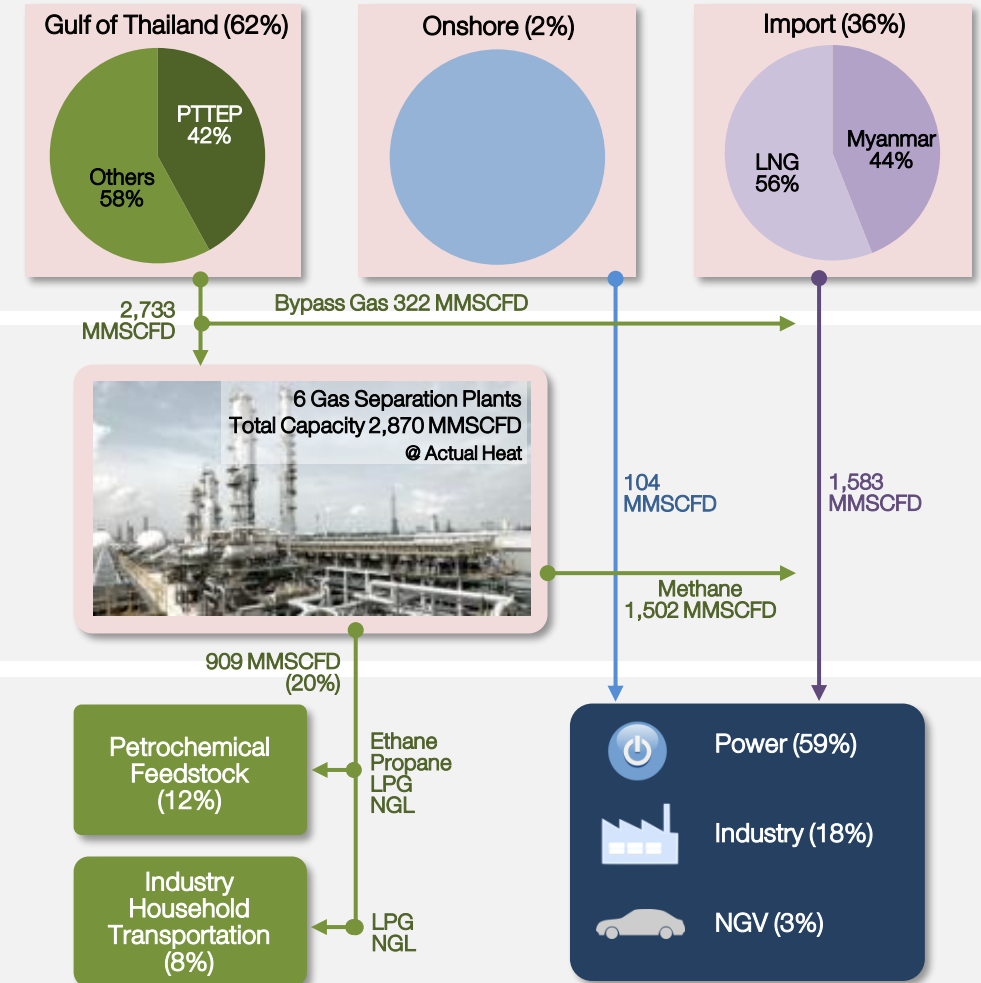
Oil Balance***

Maintains stability supply through adequate refining capacity



Natural Gas Balance****

Main driver of the Thailand economy



Source: PTT

Note: * 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 | <ul style="list-style-type: none"> • Zawtika (80% WI) • Yadana (25.5% WI) • Yetagun (19.3% WI) |
| FDP | <ul style="list-style-type: none"> • 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 volume in 3M2022 was 403 MMSCFD of natural gas and 16 KBPD of condensate

G1/61 (100% WI)

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

G2/61 (100% WI)

- GBS transition completed. Production rate at 200 MMSCFD



● Production phase
● Exploration phase

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

Projects | Vietnam and Indonesia



- Production projects
- Pre sanction projects

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



UAE

Abu Dhabi Offshore 1,2 and 3

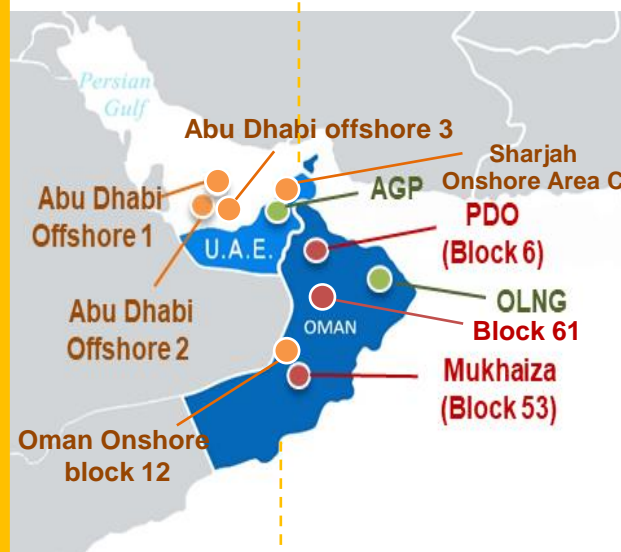
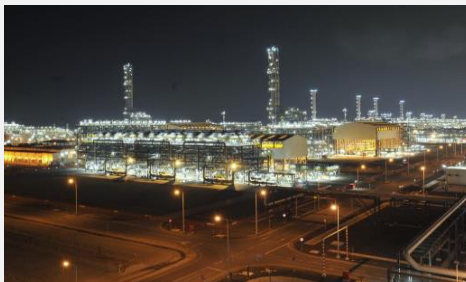
- High potential prospective resources with significant sizeable discoveries
- Located North-west of Abu Dhabi Emirates, United Arab Emirates
- Granted the award for exploration in January 2019 - 2020
- Operated by Eni Abu Dhabi B.V. (70% interest)

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)



*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)

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%

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

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

Projects Details | Thailand



| | Project Name | Status | Phase | Participating Interest* (%) | | Sales Vol Gas (MMSCFD) | Sales Vol Liquid (KBPD) | Latest Status |
|---|-----------------------|----------|------------|--|---|------------------------|-------------------------|---|
| 1 | Arthit | Operator | Production | PTTEP Chevron MOECO | 80% 20% 4% | 277 | 15 | <ul style="list-style-type: none"> Increase Sales Gas DCQ from 220 to 280 MMSCFD in Feb'22 |
| 2 | B6/27 | Operator | Production | PTTEP | 100% | - | - | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 (Non-transferred asset) |
| 5 | CT4 (formerly Pailin) | JV | Production | PTTEP Chevron MOECO | 60% 35% 5% | 403 | 16 | <ul style="list-style-type: none"> Ensure gas deliverability level at DCQ Drill development wells Topside reuse |
| 6 | E5 | JV | Production | PTTEP EXXON MOBIL | 20% 80% | 8 | - | <ul style="list-style-type: none"> Ensure gas deliverability level at DCQ |

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

**** DCQ = Daily Contractual Quantity

Projects Details | Thailand



| | Project Name | Status | Phase | Participating Interest* (%) | | Sales Vol Gas (MMSCFD) | Sales Vol Liquid (KBPD) | Latest Status |
|----|-----------------|--------|------------|-----------------------------|---------|------------------------|-------------------------------------|---|
| 7 | G4/43 | JV | Production | PTTEP | 21.375% | 1 | 2 | <ul style="list-style-type: none"> Deliver production volumes as nominated from the buyer and oil production as planned |
| | | | | Chevron | 51% | | | |
| | | | | MOECO | 21.25% | | | |
| | | | | Palang Sophon | 6.375% | | | |
| 8 | G4/48 | JV | Production | PTTEP | 5% | 1 | 0.1 | <ul style="list-style-type: none"> Decommissioning activities |
| | | | | Chevron | 71.25% | | | |
| | | | | MOECO | 23.75% | | | |
| 9 | L53/43 & L54/43 | OP | Production | PTTEP | 100% | - | 0.5 | <ul style="list-style-type: none"> 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. |
| 10 | PTTEP1 | OP | Production | PTTEP | 100% | - | 0.2 | <ul style="list-style-type: none"> Maintain production plateau Relocate facilities from PTTEP1 to L54/43 to be minimized CAPEX cost |
| 11 | S1 | OP | Production | PTTEP | 100% | 8 | Crude: 25 KBPD LPG: 183 MTon/Day | <ul style="list-style-type: none"> Production optimization and long-term development plan are on-going for business plan and work activities identification according to 10 years strategy |
| 12 | Sinphuhorm | OP | Production | PTTEP | 55% | 95 | 0.3 | <ul style="list-style-type: none"> Ensure gas deliverability Preparing the drilling campaign for 2 wells during Q2 - Q4 2022 |
| | | | | Apico | 35% | | | |
| | | | | EXXON MOBIL | 10% | | | |
| 13 | L22/43 | OP | Production | PTTEP | 100% | - | - | <ul style="list-style-type: none"> 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 Interest* (%) | | Sales Vol Gas (MMSCFD) | Sales Vol Liquid (KBPD) | Latest Status |
|----|-----------------|--------|-------------|-----------------------------|------|------------------------|-------------------------|--|
| 14 | MTJDA | JOC | Production | PTTEP | 50% | 260 | 10 | • Facility Readiness for Additional Gas to DP1 (Thailand) for 30-50 MMSCFD |
| | | | | Petronas Carigali | 50% | | | |
| 15 | G9/43 | OP | Exploration | PTTEP | 100% | - | - | • Activity suspended |
| 16 | G1/61 (Erawan) | OP | Production | PTTEP | 60% | - | - | • Successful transition to become operator on 24 April 2022. Initial production rate at 376 MMSCFD |
| | | | | Mubadala | 40% | | | |
| 17 | G2/61 (Bongkot) | OP | Production | PTTEP | 100% | - | - | • Normal operations |

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 Interest* (%) | | Sales Vol Gas (MMSCFD) | Sales Vol Liquid (KBPD) | Latest Status |
|---|---|-----------------------------|-------------|--|---|------------------------|-------------------------|--|
| 1 | Block K (Malaysia) - Kikeh - Siakap-North Petai field (SNP) - Gumusut-Kakap field (GK) | OP (Kikeh & SNP) JV (GK) | Production | PTTEP | Kikeh 56% SNP 22.4% GK 7.17% | 32 ** | 27 ** | <ul style="list-style-type: none"> SNP Phase 2 development well commenced production. GK Phase 3 development drilling commenced by Unit Operator. |
| 2 | Sarawak SK309 and SK311 (Malaysia) | OP | Production | PTTEP | 42 – 59.5% | 193 ** | 20 ** | <ul style="list-style-type: none"> 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 ** | - | <ul style="list-style-type: none"> Continue at higher production 280+ MMSCFD |
| 4 | Malaysia – Other projects | OP | Exploration | PTTEP | 42.5 – 80% (varied by permits) | - | - | <ul style="list-style-type: none"> <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 | - | <ul style="list-style-type: none"> 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 | - | <ul style="list-style-type: none"> Submitted notice to withdraw, effective May 2022 |
| 7 | Zawtika : M9 & a part of M11 (Myanmar) | OP | Production | PTTEP Myanma Oil and Gas Enterprise (MOGE) | 80% 20% | 326 | - | <ul style="list-style-type: none"> Maintain operations. Some activities are delayed due to COVID-19 and political situation. |

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

** 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 Interest* (%) | | 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 |

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 | Middle East



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

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 Interest* (%) | | 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% | - | - | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Full production capacity of natural gas and condensate in according to the Sales and Purchase Agreement |

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 | Rest of the World



| | Project Name | Status | Phase | Participating Interest* (%) | | Sales Vol Gas (MMSCFD) | Sales Vol Liquid (KBPD) | Latest Status |
|---|--------------------------------|--------|-------------|--|---|------------------------|-------------------------|---|
| 1 | PTTEP Australasia (PTTEP AA) | OP | Exploration | PTTEP | 90%-100% | - | - | <ul style="list-style-type: none"> Cash Maple (AC/RL7) and Oliver (AC/RL12) : Defining proper direction in order to increase development opportunities Tenacious and Oliver : Well abandonment in progress Other exploration projects: G&G studies |
| 2 | Mozambique Area 1 | JV | Development | PTTEP TotalEnergies, Mitsui, ENH, OVL OVL & Oil India , Bharat | 8.5% 26.5%,20% 15%, 10% 10%, 10% | - | - | <ul style="list-style-type: none"> 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 |
| 3 | Algeria 433a & 416b (Bir Seba) | JOC | Production | PTTEP PetroVietnam Sonatrach | 35% 40% 25% | - | 17 ** | <ul style="list-style-type: none"> 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% | - | - | <ul style="list-style-type: none"> 1st oil production June 1, 2022 for the initial phase target 13,000 BPD Groupement (JOC) establishment in Q2 2022 |
| 5 | Mariana Oil Sands (Canada) | OP | Exploration | PTTEP | 100% | - | - | <ul style="list-style-type: none"> The Project is underway for reclamation activities according to government's conditions. |
| 6 | Brazil Barreirinhas AP1 | JV | Exploration | PTTEP Shell Brasil Mitsui E&P Brasil | 25% 65% 10% | - | - | <ul style="list-style-type: none"> Pending exploration wells drilling permit from the government |

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

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 | Mid-stream

Note: PTTEP denotes respective PTTEP subsidiaries participating in the project

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



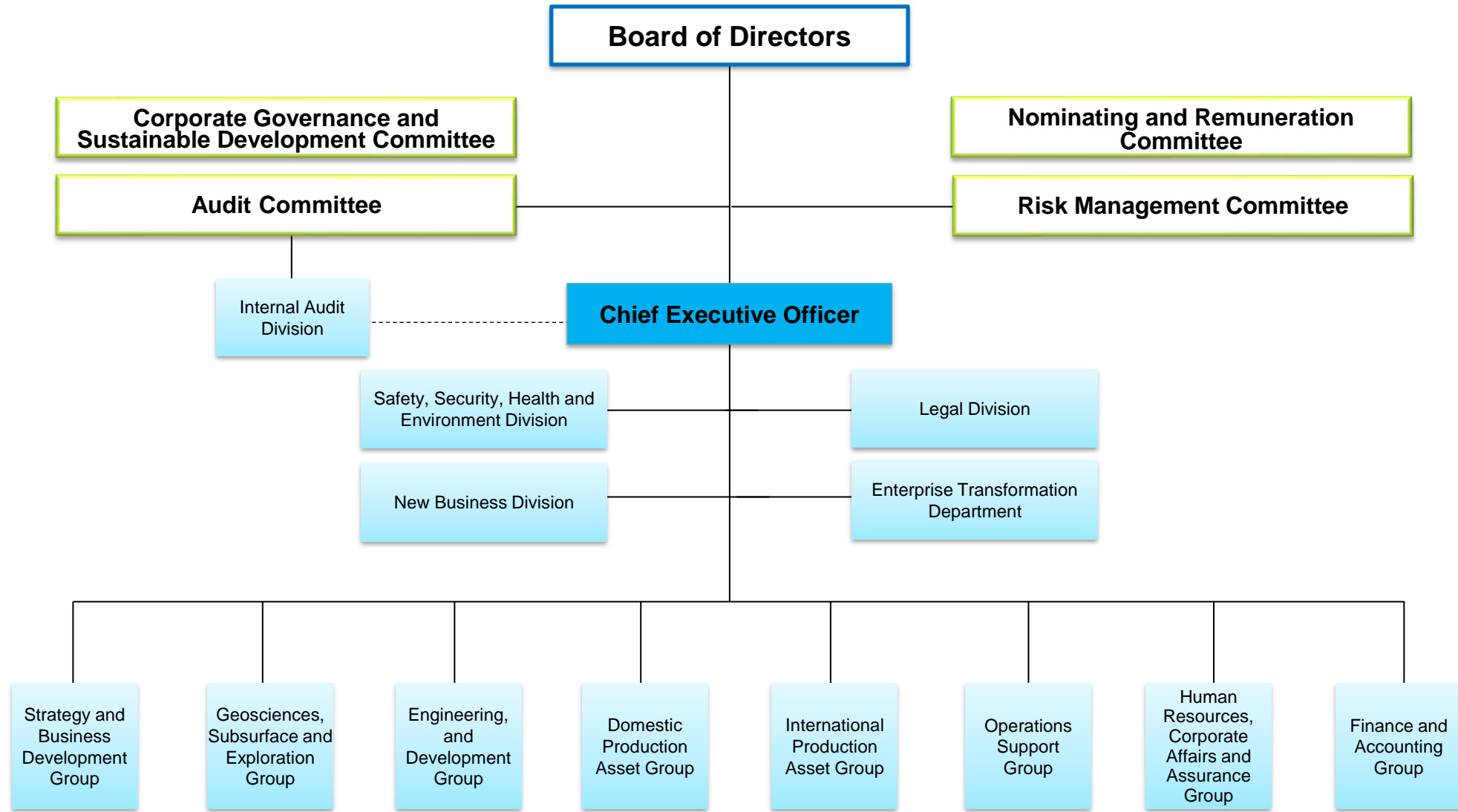
| | Project Name | Status | Phase | Participating Interest* (%) | | Sales Vol Gas (MMSCFD) | Sales Vol Liquid (KBPD) | Latest Status |
|---|----------------------------|-------------|------------|-----------------------------|-------|------------------------|-------------------------|---------------------|
| 1 | Oman LNG [OMAN] | Shareholder | Production | PTTEP | 2% | - | - | • Normal Operations |
| | | | | Government of Oman | 51% | | | |
| | | | | Shell | 30% | | | |
| | | | | TotalEnergies | 5.54% | | | |
| | | | | Korea LNG | 5% | | | |
| | | | | Mitsubishi | 2.77% | | | |
| | | | | Mitsui | 2.77% | | | |
| | | | | Itochu | 0.92% | | | |
| 2 | ADNOC Gas Processing [UAE] | JV | Production | PTTEP | 2% | - | - | • Normal Operations |
| | | | | ADNOC | 68% | | | |
| | | | | Shell | 15% | | | |
| | | | | TotalEnergies | 15% | | | |

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

Organization Chart



Ratio and 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 | 5-Yr Additional Proved Reserves / 5-Yr Production Volume |
| Replacement Ratio | |
| 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 |

| Crude oil | To convert | | | | | |
|----------------------------------|-------------------------|-----------------------|-------------------------------|--------------------|--------------|-------|
| | Tonnes (metric) | Kilolitres | Barrels | US gallons | Tonnes/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 | - | - | - | - | 49.8 | |
| Natural gas and LNG | To convert | | | | | |
| | Billion cubic Metres NG | Billion cubic feet NG | Million tonnes oil equivalent | Million tonnes LNG | Trillion BTU | MBOE |
| From | Multiply by | | | | | |
| 1 billion cubic metres NG | 1.000 | 35.315 | 0.860 | 0.735 | 34.121 | 5.883 |
| 1 billion cubic feet NG | 0.028 | 1.000 | 0.024 | 0.021 | 0.966 | 0.167 |
| 1 petajoule NG | 0.028 | 0.981 | 0.024 | 0.021 | 0.952 | 0.164 |
| 1 million tonnes oil equivalent | 1.163 | 41.071 | 1.000 | 0.855 | 39.683 | 6.842 |
| 1 million tonnes oil LNG | 1.360 | 48.028 | 1.169 | 1.000 | 46.405 | 8.001 |
| 1 trillion British thermal units | 0.029 | 1.035 | 0.025 | 0.022 | 1.000 | 0.172 |
| 1 million barrels oil equivalent | 0.170 | 6.003 | 0.146 | 0.125 | 58.000 | 1.000 |