

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.

Company Overview

Business Update

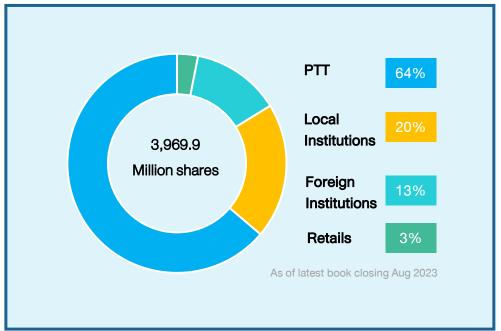
Corporate Strategy

Financial – Results and 5-Year Investment Plan



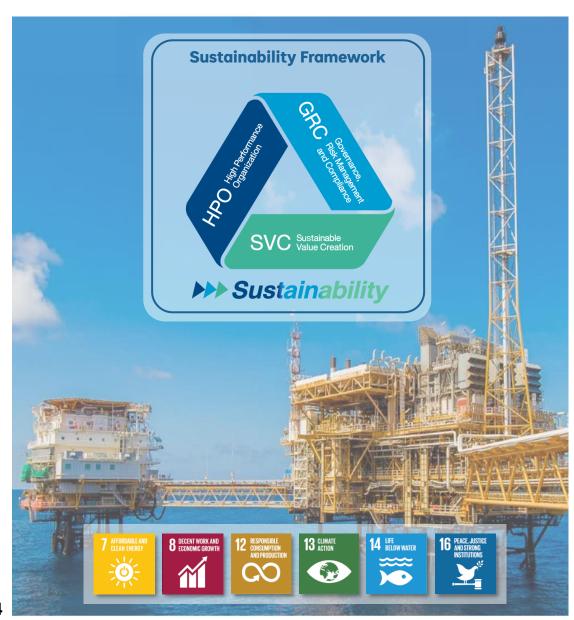
Company Overview











Corporate Strategy & Targets



Drive Value

- Strengthen E&P and ensure Thailand energy security
 - Maximize production
 - Expedite development
 - Monetize discovery
- Enhance competitiveness of unit cost
- Expand gas-weighted portfolio and LNG business
- Production growth 5% CAGR
- R/P not less than 5 years
- Competitive unit cost
- Zero incident organization



Decarbonize

- Manage E&P for lower carbon portfolio
- Execute GHG emission reduction plan
- Accelerate CCS projects
- Maximize use of renewable and future energy in operation
- Pursue emission offsetting and Ocean for life
- Net Zero GHG emission 2050
- Reduce GHG emission intensity 30% by 2030 and 50% by 2040



Diversify

- CCSaaS, CCU
- RE Power-to-X
- AI & Robotic Ventures (ARV)
- Commercialize in-house technology

20% NI contribution from Beyond E&P business by 2030

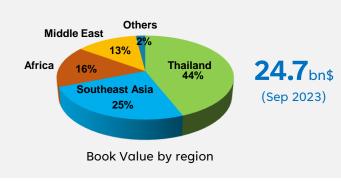


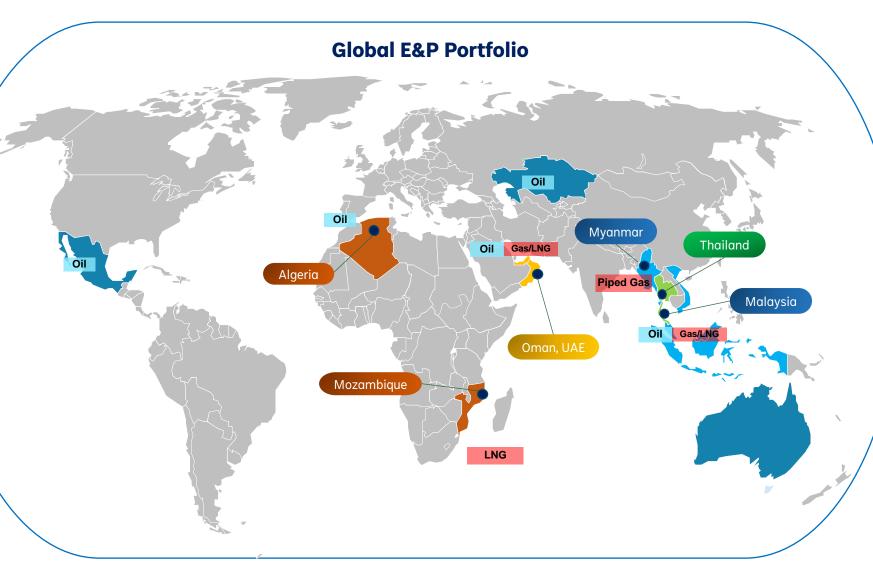
Portfolio - E&P Business



Key Assets and % of Total Sales volume As of 9M2023										
Focus Countries (96%)										
Thailand	66%	G1/61, G2/61, Arthit, S1								
Malaysia	10%	SBK, SBH, SK309/311								
Myanmar	9%	Yadana, Zawtika								
Oman	11%	Block 61, PDO, OLNG								
UAE	< 1%	Exploration fields, AGP								

Africa & Rest of the World (4%)									
Africa	2%	HBR, BSB							
Others	< 2%	Small presence in Vietnam, Indonesia, Kazakhstan, Mexico, Australia, Angola							





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E&P Business Update



Producing Projects



G1/61 (Erawan)

Producing gas at 400-420 MMSCFD and target to 800 MMSCFD in April 2024

G2/61 (Bongkot)

Producing gas at maximum level 860 MMSCFD

Arthit

Producing gas at 350 MMSCFD for support Thailand gas demand

G12/48

Acquired additional 33.33% stake from TotalEnergies

B8/32 & 9A

Production resumed at the beginning of October 2023



Algeria HBR

Successfully ramped up production from 13KBPD to 17KBPD since August 2023



Oman LNG

10-year contract extension, until 2034, was signed in October 2023.

Development & Pre-sanction Projects



Mozambique LNG

Aiming for site re-access by early 2024. Expect 1st cargo in 1H2028



SK410B Lang Lebah

FEED completed in October 2023. Expect 1st gas by 1H2028

SK405B

Recent discovery, expect monetization plan to be concluded by end 2025

Exploration Projects



Mariana Oil Sand

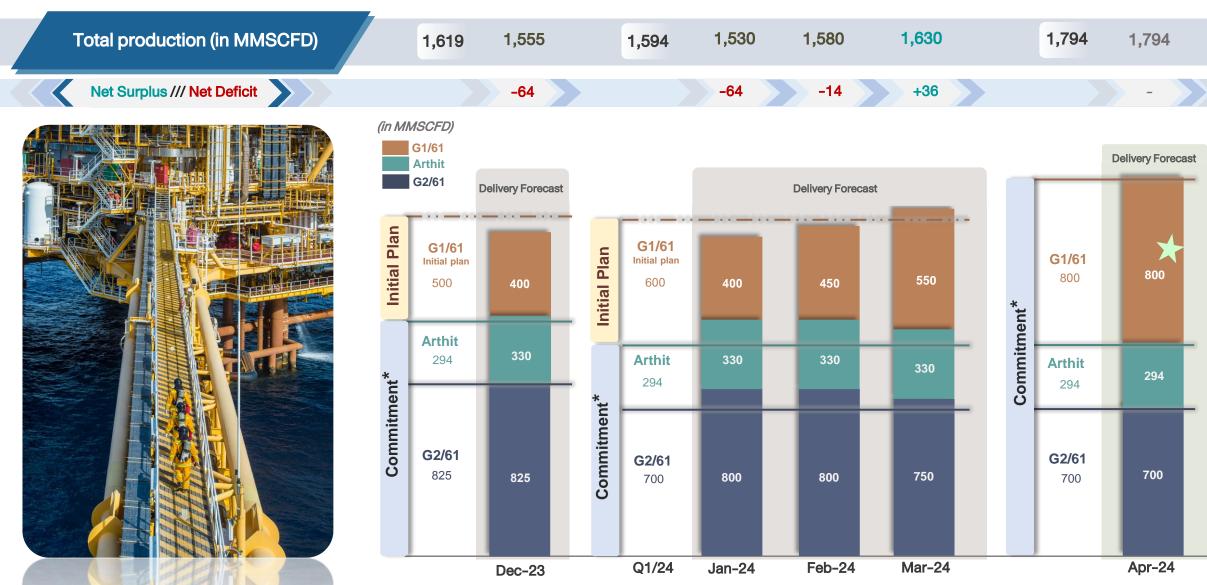
Relinquishment completed in August 2023



Cash Maple

Entered into a SPA to sell its total interests in AC/RL7.

G2/61 and Arthit: Surpassing the Commitment to Bridge G1/61's Shortfall



Note: * Commitment shall mean

G2/61: Daily Contract Quantity (DCQ), according to Production Sharing Contract and (PSC) and Gas Sales Agreement (GSA) Arthit: Contractual Delivery Capacity (CDC), according to GSA

G1/61: DCQ, according to PSC and GSA

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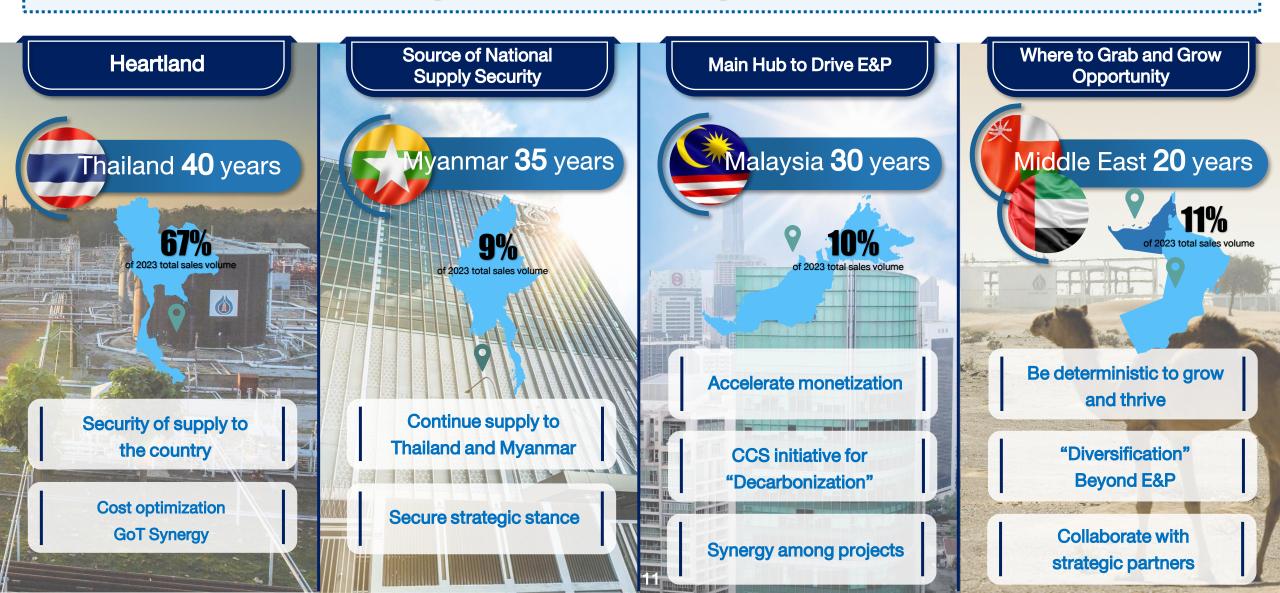
Corporate Strategy

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DRIVE VALUE For Excellence ... Strengthen existing businesses with competitive unit cost

Strong Footprints in Strategic Countries



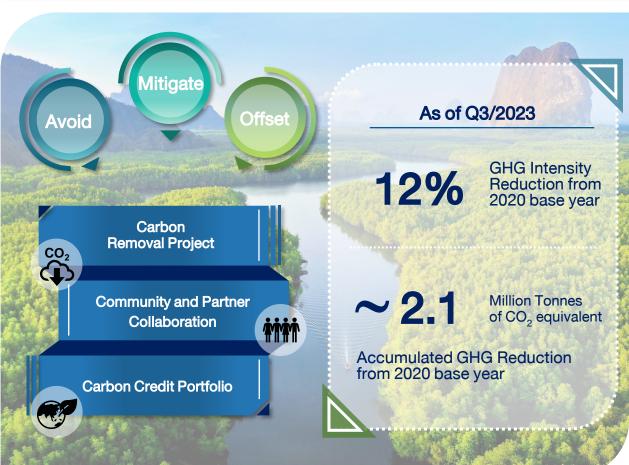
Commitment to **DECARBONIZATION**

Striving towards Low Carbon Organization

Net Zero Strategy & Target

30% GHG Intensity Reduction by 2030 (2020 Base Year) 50% GHG Intensity Reduction by 2040 (2020 Base Year)





MoU with Oil & Gas Methane Partnership (OGMP) 2.0

On 4 October, PTTEP signed MoU with UNEP for Oil & Gas Methane Partnership (OGMP), which is the voluntary initiative to help companies reduce methane emissions in the oil and gas sector.



CCS CO2

Carbon Capture and Storage (CCS) at Arthit Project

It is in the process of discussion with relevant government bodies. A clarity is required for 3 key elements;

- License to Operate
- Recoverability of additional costs
- MMV (Measurement, Monitoring and Verification) or Liability

New GHG reduction initiatives execution

In Q3/2023, PTTEP successfully implemented process optimization and enhance flaring efficiency initiatives in Malaysia and G2/61 projects, which expected GHG reduction approximately 33,000 tCO₂e/year.



DIVERSIFY For the Future



Decarbonization Solutions & New Energy Transition



Carbon Solutions



Low-carbon Energy



Advanced Technology

ess Developmen



CCS as a Service (domestic/inter)

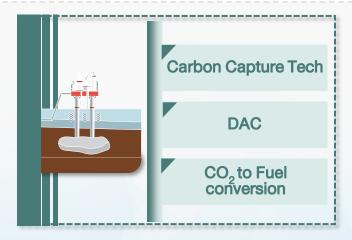


RE Power-to-X (Hydrogen)



In-house Tech
Commercialization

R&D, CVC







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Financial Results | Q3 23

PTTEP

Major Events in Q3/23

G1/61 Production Reached 400 mmscfd for Full Quarter

Liquid Portion Increased

Revision of Malaysia Tax Incentives





P/L from normal operation

P/L from non-operating items







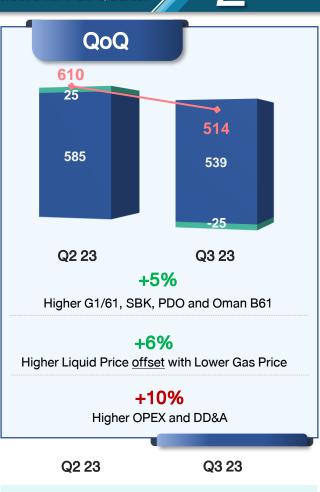


Major Non-operating items (in million USD)

Oil Price Hedging

Effect from FX and Others

Impairment / Asset Write-off

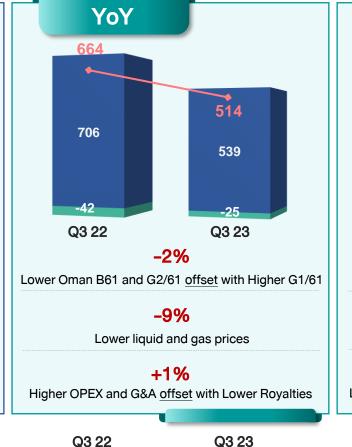


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-5

+2

+23



-20

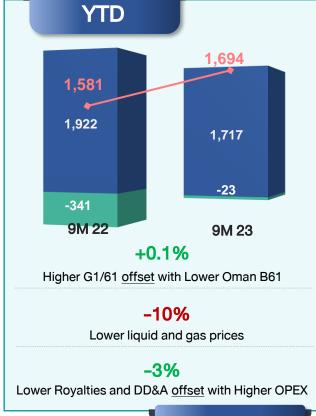
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+94

-41

-95

Brazil



9M 23

-17

-6

9M 22

-184

-62

-95

Brazil

Financial Results | Volume and Price





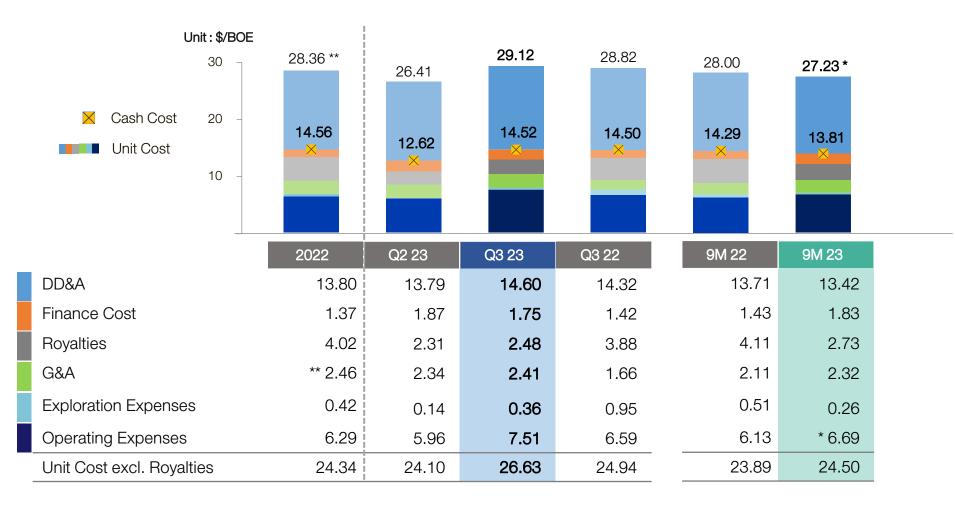


Note: Include sales volume from ADNOC Gas Processing (AGP).

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

Financial Results | Unit Cost





Note: * Exclude Bongkot Goodwill write-off in Q1/23 (OPEX)

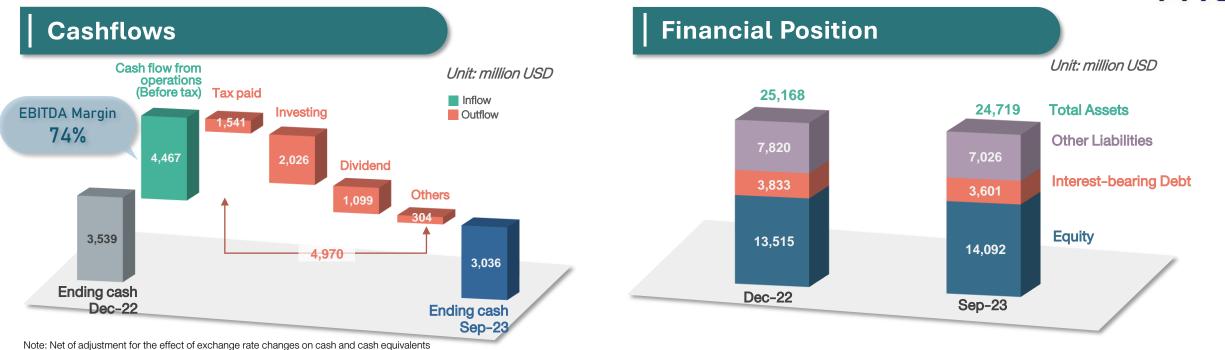
All Unit Cost shown above exclude costs related to new business

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

^{**} Exclude Montara Class action settlement in Q4/22 (G&A)

Financial Results | Cashflows & Financial Position





Debt Profile							
	Dec-22	Sep-23		Dec-22	Sep-23	Interest Rates	
Debt to Equity	0.28	0.26	Average Cost of Debt	3.99% p.a.	3.94% p.a	100%	
Debt to EBITDA	0.56	0.59	Average Loan Life	15.2 Yrs	13.8 Yrs	Fixed rate	

Results Guidance







Finance – 5 Years Investment Budget



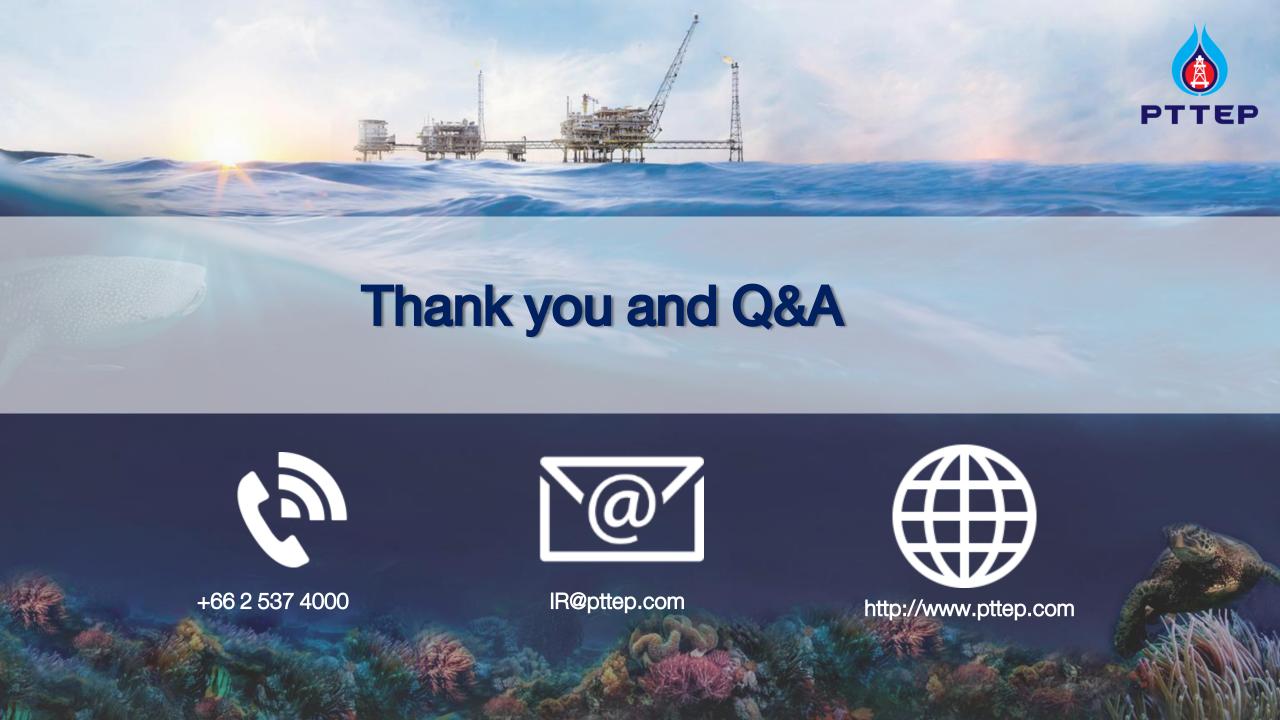


Note: (1) Subject to site re-entering and resume construction timing

 (2) Subject to regulatory approval and FID timing
 (3) Development & Pre-sanction projects include Mozambique LNG, SK410B, and Southwest

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

in KBOED Production CAGR +6.3% 787 757 800 750 722 700 648 Sales Volume 581 535 550 531 600 510 470 11 56 468 Africa 11 500 11 56 67 Middle East 67 400 Other SEA 300 200 359 343 347 340 Thailand & MTJDA 295 309 100 0 2022 2023 2024 2025 2026 2027 Actual **MMUSD** 7,000 6,447 6,127 5,969 6,000 5,481 5,076 2.216 4,819 5,000 2.176 2,112 OPEX 2.329 4,000 2.144 1,041 2,389 971 779 CAPEX 3,000 317 293 (Dev & Pre-sanction projects (3) 2,000 3,190 3.078 2,980 2,835 CAPEX 2.639 2,350 1,000 (Producing projects (4)) 2025 2027 2022 2023 2024 2026 Actual MZA1 LNG: 1H (1) G2/61: March Southwest G1/61: April Vietnam: 2H (2) Capacity 700 MMSCFD Full Capacity 800 MMSCFD HBR (Full phase): 2H (2) (Apr'22: 200 MMSCFD SK410B: 2H (2) **Key Project** Mar'23: 500 MMSCFD) SK405B: 1H (2) Start-up 20





Supplementary Information

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Finance - P&L

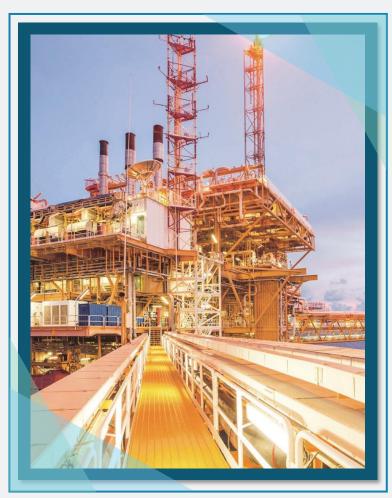


			0/ 0=0						DTT		
Unit: million USD	Q3 23	Q2 23	%QoQ	Q3 22	%YoY	9M23	9M22	%YTD	2022		
Total Revenues	2,292	2,074	11%	2,617	(12%)	6,646	7,008	(5%)	9,660		
Sales (1)	2,193	1,924	14%	2,388	(8%)	6,310	6,801	(7%)	9,270		
Sales Volume (BOED) (2)	467,452	444,868	5%	478,323	(2%)	457,737	457,237	0.1%	468,130		
Sales Price (US\$/BOE)	48.62	45.72	6%	53.68	(9%)	48.14	53.62	(10%)	53.39		
Others (3)	99	150	(34%)	229	(57%)	336	207	62%	390		
Total Expenses	1,786	1,473	(21%)	1,936	(8%)	4,984	5,433	(8%)	7,681		
Major Expenses:											
Operating Expenses	337	247	36%	300	12%	945	789	20%	1,110		
Exploration Expenses	15	6	>100%	42	(64%)	32	64	(50%)	72		
G&A	113	106	7%	80	41%	319	285	12%	578		
DD&A	629	560	12%	631	(0.3%)	1,681	1,713	(2%)	2,363		
Loss on Financial Instruments	20	-	100%	-	100%	33	84	(61%)	184		
Impairment Loss on Assets	-	-	-	95	(100%)	-	95	(100%)	300		
Income Tax Expenses	484	385	26%	468	(37%)	1,405	1,575	(11%)	2,061		
Share of profit (loss) from associates and JV	8	9	(11%)	(17)	>100%	32	6	>100%	20		
Net Profit	514	610	(16%)	664	(23%)	1,694	1,581	7%	1,999		
Profit (Loss) from normal operation	539	585	(6%)	706	(22%)	1,717	1,922	(11%)	2,647		
Profit (Loss) from non-operating items	(25)	25	(>100%)	(42)	10%	(23)	(341)	93%	(648)		
Non-operating items breakdown:											
Oil Price Hedging	(20)	2	(>100%)	94	(>100%)	(17)	(184)	91%	(186)		
Tax from Effect of FX	-	(13)	0%	(13)	0%	(13)	(26)	50%	(15)		
Effect from FX and others	(5)	36	(>100%)	(28)	82%	7	(36)	>100%	(89)		
Impairment Loss on Assets	-	-	-	(95)	100%	-	(95)	100%	(300)		
Montara Mediation agreement on Class Action	-	-	-	-	-	-	-	-	(129)		
Gain from a bargain purchase / Reversal of Contingent Liab.	-	_	-	-	_	_	_	-	71		

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

Finance – Key Ratios

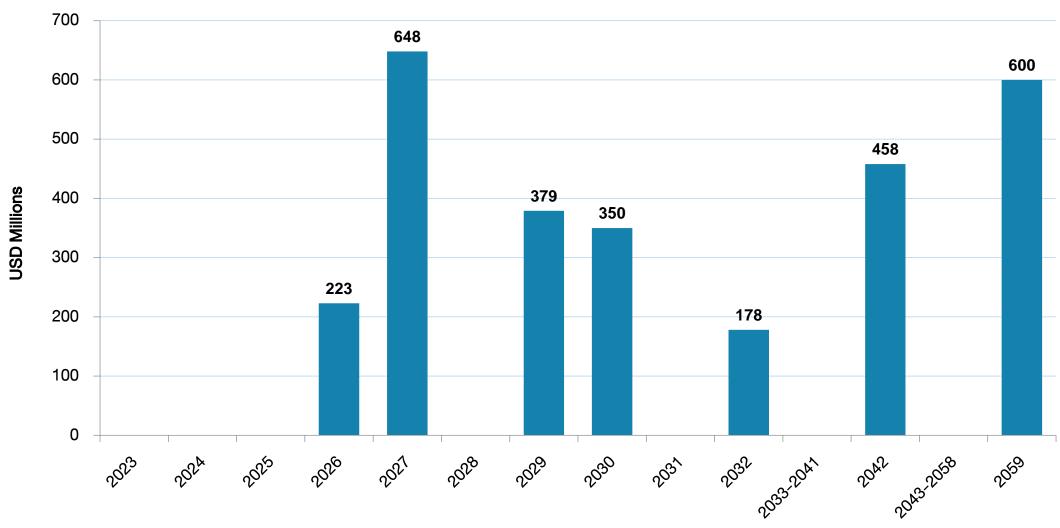




		Q2 2023	Q3 2023		
	EBITDA Margin	77%	74%		
Profitability Ratios (%)	Return on Equity	17%	16%		
	Net Profit Margin	23%	23%		
Leverage Ratios	Debt to Equity	0.26	0.26		
(Times)	Debt to EBITDA	0.58	0.59		
Liquidity Ratio (Times)	Current Ratio	2.78	2.50		

Finance - Debt Maturity Profile





Unit: USD Millions or equivalent after cross currency swap

As of September 2023

E&P Business – Thailand, Myanmar, Malaysia



Myanmar

Production

Zawtika (WI 80%)

• Production Volume gas 338 MMSCFD (9M2023)

Yadana (WI 37.1%)

Production Volume gas 537 MMSCFD (9M2023)

Exploration

M3 (WI 100%)

Pending development

Malaysia

Production

Block K (WI Kikeh 56%, SNP 22.4%, GK 7.2%)

 Production Volume crude 23 KBPD and gas 21 MMSCFD (9M2023)

Block H (WI Rotan 56%, Others 42%)

• Production Volume gas 226 MMSCFD (9M2023)

SK309 and SK311 (WI 42-59.5%)

- Including East Patricia field
- Production Volume gas 209 MMSCFD, and crude 15 KBPD (9M2023)

Exploration

- SK410B (LLB), SK417, SK314A, SK438, SK405B
- PM415, PM407, SK325



Thailand

Production

G1/61 Erawan (WI 60%)

- 9M2023 daily gas production 288 MMSCFD
- Ramp-up in progress to 800 MMSCFD in Apr 2024
- Sole investment 100%

G2/61 Bongkot (WI 100%)

- PSC transition completed since 8 Mar 2023.
- 9M2023 daily gas production at 667 MMSCFD
- The project will be producing at 700 MMSCFD from Jan 2024 onward.

Arthit (WI 80%)

 Production Volume gas 339 MMSCFD and condensate 16 KBPD (9M2023)

Contract 4 (WI 60%)

 Production Volume gas 412 MMSCFD and condensate 15 KBPD (9M2023)

S1 (WI 100%)

Production Volume crude oil 25 KBPD (9M2023)

MTJDA (WI 50%)

- Production Volume gas 301 MMSCFD (9M2023)
- Supplying to Thailand at least 30 MMSCFD

Exploration

• G1/65 and G3/65

E&P Business – Middle East



UAE

Exploration

Abu Dhabi Offshore 1, 2, 3 (WI 30%)

- High potential prospective resources with significant sizeable discoveries
- Operated by ENI (WI 70%)

Sharjah Onshore Area A (WI 25%)

- High potential onshore gas project to expand investments in strategic area.
- Operated by ENI (WI 50%)

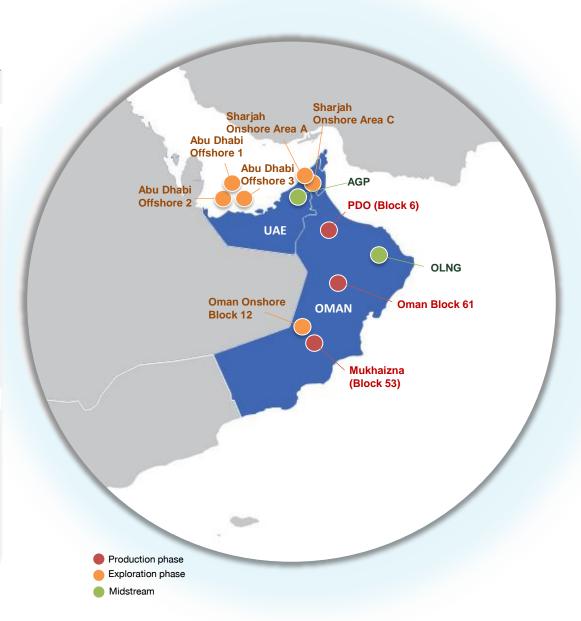
Sharjah Onshore Area C (WI 25%)

- High gas & condensate potential with the possibility of integrating with surrounding fields
- Operated by ENI (WI 50%)

Midstream

ADNOC Gas Processing (WI 2%)

- 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 economy
- Sizable volume of Propane, Butane and Naphtha
- Operated by ADNOC (WI 68%)



OMAN

Production

Block 6 (PDO) (WI 2%)

- Largest asset covering around 1/3 of the country.
- Average oil production volume of 652 KBPD (9M2023)
- Operated by Petroleum Development of Oman (WI 60%)

Block 53 (WI 1%)

- Largest single onshore producing field in Oman.
- Average oil production volume of 82 KBPD (9M2023)
- Operated by Occidental (WI 47%)

Block 61 (WI 20%)

- Largest tight gas development in Middle East
- Gas and condensate daily production rate of 1,496 MMSCFD and 57 KBPD (9M2023).
- Operated by BP (WI 40%)

Exploration

Onshore Block 12 (WI 20%)

Operated by TotalEnergies (WI 80%)

Midstream

OMAN LNG (WI 2%)

- The only LNG facility in Oman.
- Operated by Government of Oman (WI 51%)

E&P Business – Africa



Algeria

Production

433a & 416b (WI 35%)

- Oil production consisting of block 433a, 416b
- Operated by GBRS (WI 35%)
- Average Daily Production volume of crude at 16 KBPD

Hassi Bir Rekaiz (WI 49%)

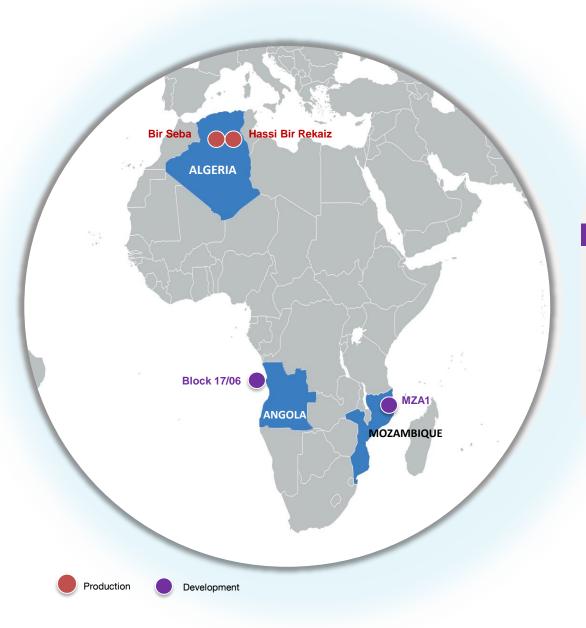
- HBR oil field consisting of block 443a, 424a and 415ext
- 1st Oil in June 2022 and started delivering sales volume in Q4/2022.
- Operated by GHBR (WI 49%)
- Average Daily Production volume of crude at 14 KBPD

Angola

Development

Block 17/06 (WI 2.5%)

- Operated by TotalEnergies (WI 30%)
- Divestment in progress estimate completion in 2023



Mozambique

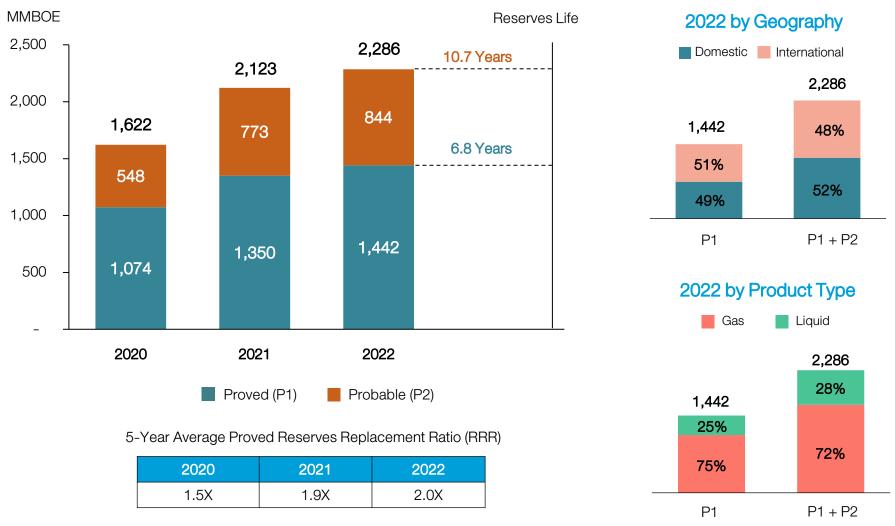
Development

Area 1 (WI 8.5%)

- Construction phase for LNG facility with capacity 13.1 MTPA (2 trains).
- Currently under Force Majeure due to local security situation
- Operated by TotalEnergies (WI 26.5%)

Reserves





Based on average production per day of natural gas, condensate, and crude oil (including LPG) of 585 KBOED for the year ended December 31, 2022

As of December 2022 29

Figures include reserves from equity method







Unmanned Robotic Technologies and Data Analytics for Marine. Offshore and Underwater Assets

> Hydrographic Survey and Surveillance



for Subsea Pipeline Inspection



NAUTILUS

Underwater Robotic System for Inspection, Repair & Maintenance of Subsea Pipelines



XSPECTOR

A cloud-based data management platform specifically tailored for subsea inspection and survey operations



SXYLLER

Al-driven and Autonomous Aerial Drone Technologies, Operations and Data Analytics for Various Industries and Operations

HORRUS

VENTURES BUILDER

ARV is a Ventures Builder principally engaged in the research. development and provision of solutions using Artificial Intelligence and Robotics technologies, as well has ventures ideation, incubation, development and commercialization.





One-Stop Agriculture and Climate **Technology Solutions**





Health Solutions Platform that Simplifies Data Access, Manage Security and Accelerates the Creation of Digital Health Solutions



BUSINESS UNITS

ARV has successfully spun-off start-ups into separate legal

entities focused on further commercialization and

development of their respective deep-tech domains.



Software Solutions for Security, Privacy, and Data Controlling in the Web 3.0





Geospatial Location Intelligence Platform and AI Technology to provide advanced location insights







SKYLLER PLAFORM

Autonomous Nested Drone

Surveillance and Mapping

Systems for Asset Inspection,

Data Platform for Fleet Management, Data Visualization and Analytics



SKYLLER AI ML

Al-Assisted anomalies detection for fast and accurate decision making



UAV LOGISITIC

Drone Delivery Solutions for intra-city, long range and remote delivery of critical cargo and parts



AIANG SPRAYER UAV

UAV for blanket and precisionspraying services for various crops



SMART FOREST

Green Area management platform and carbon credit solutions



KANNA CARBOM FARMING

Mobile application for productivity improvement and carbon project registration



CARBON CREDIT TOKENIZATION PLATFORM

Platform enables seamless trading of carbon credit using blockchain technology



HEALTH APPLICATIONS

Variety of completed health applications for health and wellness solutions



HARDWARE SOLUTIONS

Seamless integrate to software with IoT and Robotics solutions



BUILDING BLOCKS

Data management and software API platforms for building the custom-made digital health solutions.



AI HEALTH PRODUCTS

Al-powered solutions for personalized health care and precision medicine



Corporate ID

Automatic and Seamless Verification of Digital Signature with with E-Power of Attorney and National Identities of the Singers in any corporate transactions with global interoperability



TRUSTME

Secured Wallet that keeps all identities and personal data



CITY DIGITAL DATA PLAFORM

Platform to supporting cities to operate urban infrastructure components and services efficiently with data connectivity



MUNICIPAL TAX PLATFORM

One-stop tax collection & valuation intelligent system to facilitate citizens for submission of online petition form, payment check and status tracking



BUILDING PERMIT PLATFORM

The integration of AI and GIS to streamline rive accurate, quick and convenient permission processes for officer and citizen



ASSET MANAGEMENT PLATFORM Allows government offices to

monitor, review and update assets status for informed evaluation and decision making

JOINT VENTURES ROVULA JOINT VENTURES SKYLLER JOINT VENTURES VARUNA JOINT VENTURES CARIVA JOINT VENTURES BIND JOINT VENTURES BEDROCK

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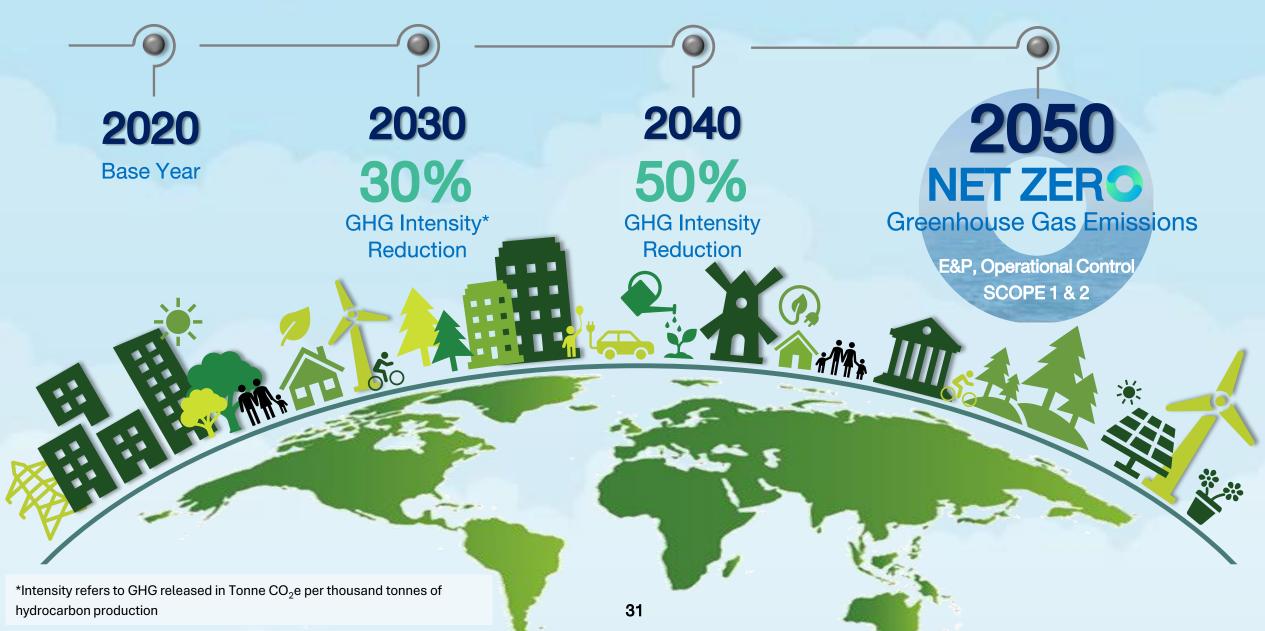






Net Zero 2050



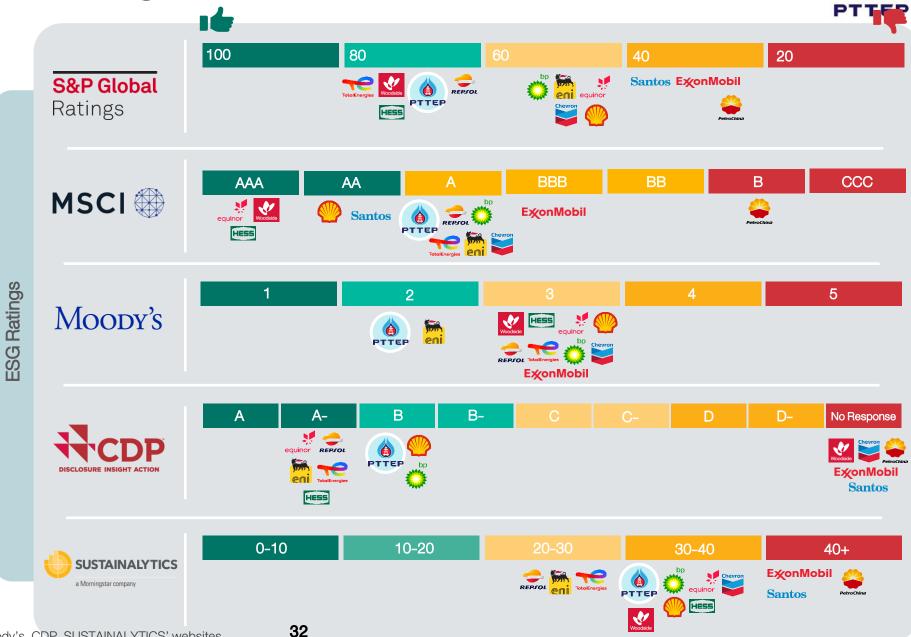


ESG Disclosure & Ratings





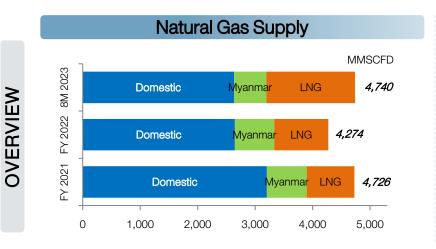


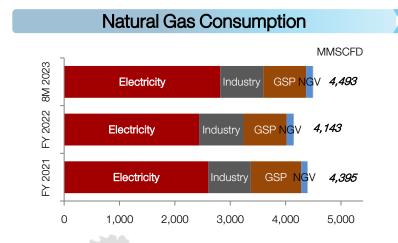


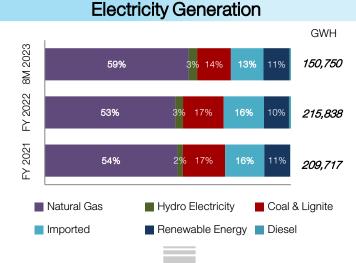
ESG Standards

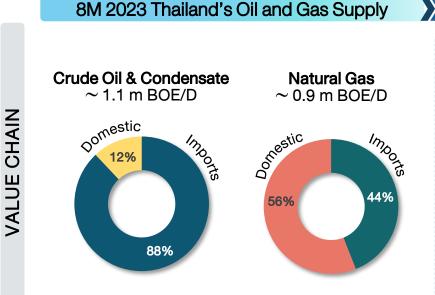
Thailand Energy Market

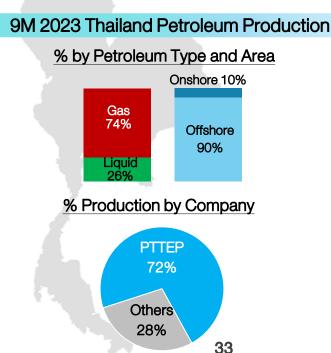


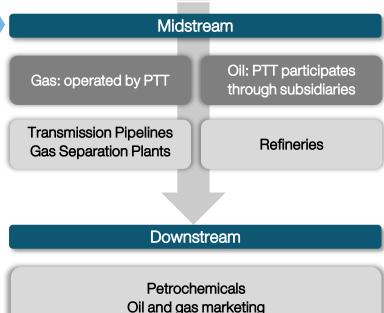




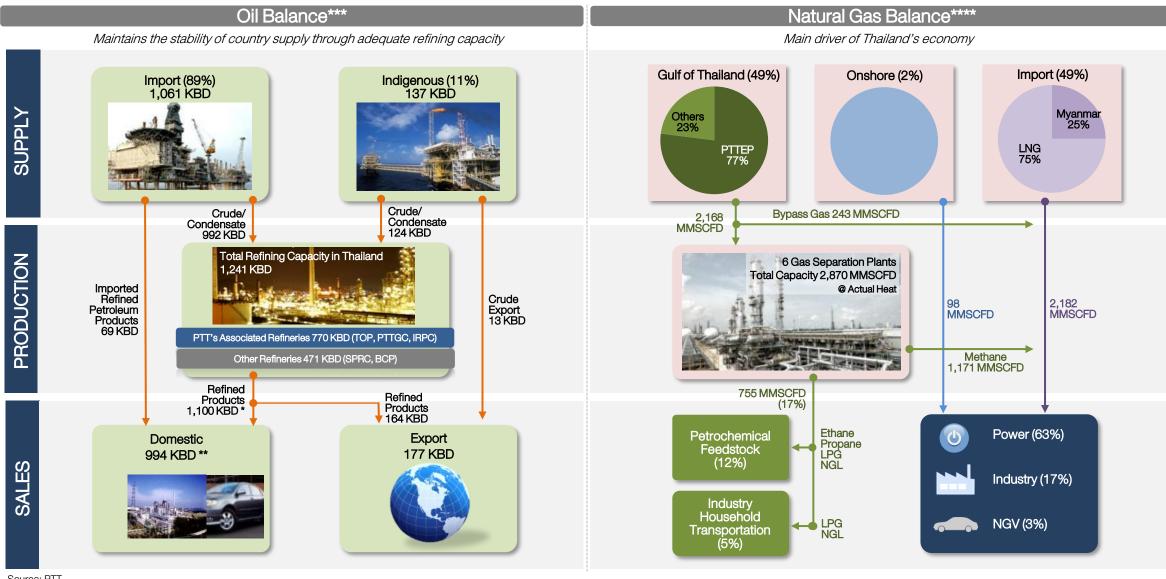








Thailand Energy Market



Source: PTT

Refined product from refineries = 1,024 KBD, including domestic supply of LPG from GSPs and Petrochemical Plants = 76 KBD

** Included Inventory

*** Information as of 6M 2023

**** Information as of 6M 2023 MMSCFD @ Heating Value 1,000 Btu/ft3

E&P Projects Detail - Thailand



						Productio	n Volume	
	Project Name	Status	Phase	Participating Inter	est* (%)	Gas (MMSCFD)	Liquid (KBPD)	Latest Status
1	Arthit	OP	Production	PTTEP Chevron MOECO	80% 16% 4%	353	16	 Gas delivery at the level beyond commitment to compensate shortfall from G1/61
2	B6/27	OP	Production	PTTEP	100%	-	-	 Prepare for decommissioning activities Final Decommissioning Plan (FDP) and Decommissioning Cost Estimation (DCE) were approved by DMF
3	B8/32 & 9A	JV	Production	PTTEP Chevron MOECO KrisEnergy Palang Sophon	25.00% 51.66% 16.71% 4.63% 2%	4	4	Production resumed at the beginning of October 2023.
4	G12/48	OP	Production	PTTEP	66.67%	7	-	 PTTEP acquired additional 33.333% stake from TotalEnergies, the completion of the SPA is expected in 2023 Normal operations
5	Contract 4 (Pailin)	JV	Production	PTTEP Chevron MOECO	60% 35% 5%	408	15	 Ensure gas deliverability level at DCQ. On-going drilling additional development wells activities.
6	E5	JV	Production	PTTEP ExxonMobil	20% 80%	7	-	Maximize gas potential at CDC level.

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

^{**} Production volume represent average volume for 100% of the project in Q3/2023

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

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

E&P Projects Detail - Thailand



						Production	on Volume			
	Project Name	Status	Phase	Participating I	Participating Interest* (%) Gas Liquid (MMSCFD) (KBPD)		_	Latest Status		
7	G4/43	JV	Production	PTTEP Chevron MOECO Palang Sophon	21.375% 51% 21.25% 6.375%	-	0.7	Production resumed at the beginning of October 2023.		
8	G4/48	JV	Production	PTTEP Chevron MOECO	5% 71.25% 23.75%	-	-	Decommissioning activities in progress		
9	L53/43 & L54/43	OP	Production	PTTEP	100%	-	1	Started 1 st oil production in Q2/2023		
10	PTTEP 1	OP	Production	PTTEP	100%	-	0.1	Maintain production plateau		
11	S1	OP	Production	PTTEP	100%	4	Crude: 25 KBPD LPG: 170 MTon/Day	 On-going drilling development wells activities. On-going production optimization and long-term development according to proposed business plan and work plan's activities. 		
12	Sinphuhorm	OP	Production	PTTEP Apico ExxonMobil	55% 35% 10%	94	0.2	Maximize gas/oil production.		
13	L22/43	OP	Production	PTTEP	100%	-	-	 Completed evaluation of drilling results to determine further production/ development plans. 		

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E&P Projects Detail - Thailand



						Production	on Volume	
	Project Name	Status	Phase	Participating Interest* (%)		Gas (MMSCFD)	Liquid (KBPD)	Latest Status
14	MTJDA	JOC	Production	PTTEP CPOC	50% 50%	286	7	 Normal operations On-going drilling activities on development and exploration/appraisal wells.
15	G9/43	OP	Exploration	PTTEP	100%	-	-	Activity suspended
16	G1/61 (Erawan)	OP	Production	PTTEP Mubadala	60% 40%	369	Condensate: 7 KBPD Crude: 10 KBPD	 Maintain gas sales at 400 MMSCFD Continue drilling new production wells Completed 1 new production platform and plan to install 3 additional platforms.
17	G2/61 (Bongkot)	OP	Production	PTTEP	100%	710	23	 Maintain average gas production at 825 MMSCFD Continue drilling development wells On-going constructing and installing the production platforms.
18	G1/65	OP	Exploration	PTTEP	100%	-	-	Received its yearly work program and budget from DMF
19	G3/65	OP	Exploration	PTTEP	100%	-	-	Received its yearly work program and budget from DMF

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E&P Projects Detail - SEA



									Hills I we The Konder.
						Production	on Volume		
	Project Name	Status	Phase	Participating	Interest* (%)	Gas (MMSCFD)	Liquid (KBPD)		Latest Status
1	Malaysia Block K - 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%	10	31	• No	ormal operations
2	Malaysia SK309 and SK311	OP	Production	PTTEP	42 – 59.5%	165	19	• No	ormal operations
3	Malaysia Block H	OP	Production	PTTEP	42 – 56%	250	1		ormal operations ompleted post-drilling evaluation of 2 exploration wells
4	Malaysia – Other projects	OP	Exploration	PTTEP	42.5 - 80% (varied by permits)	-	-	 Sk Sk the Sk Sk 	(410B: Completed FEED study for LLB (417: Preparing to drill appraisal well and evaluating prospects well. (405B: Completed reservoir modeling design of the Sirung field. (438: Completed drilling activities for 2 exploration well and is in e evaluation process. (314A: Evaluating drilling result. 3412: On-going 3D seismic reprocessing, evaluating prospects well ad G&G study.
5	Yadana (Myanmar)	OP	Production	PTTEPI Chevron MOGE	37.1% 41.1% 21.8%	511		• Mo	ajor activities were completed as planned.
6	Zawtika: M9 & a part of M11 (Myanmar)	OP	Production	PTTEP MOGE	80% 20%	339	-		aintain operations ontinue Phase 1D drilling activities

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

E&P Projects Detail - SEA



						Production	on Volume	
	Project Name	Status	Phase	Participating I	nterest* (%)	Gas (MMSCFD)	Liquid (KBPD)	Latest Status
7	Myanmar M3	OP	Exploration	PTTEP	100%	-	-	Pending for development
8	Vietnam 9-2	JOC	Production	PTTEP Vietnam Oil and Gas Group Pharos Energy	25% 50% 25%	8	5	Submitted the proposal for Petroleum Contract Extension (5 yrs.) to Vietnamese Government
9	Vietnam 16-1	JOC	Production	PTTEP Vietnam Oil and Gas Group Pharos Energy OPECO	28.5% 41% 28.5% 2%	6	10	Submitted the proposal for Petroleum Contract Extension (5 yrs.) to Vietnamese Government
10	Vietnam B & 48/95	JV	Exploration	PTTEP Vietnam Oil and Gas Group MOECO	8.5% 65.88% 25.62%	-	-	 In the negotiation process on commercial terms in order to push forward the Final Investment Decision (FID)
11	Vietnam 52/97	JV	Exploration	PTTEP Vietnam Oil and Gas Group MOECO	7% 73.4% 19.6%	-	-	 In the negotiation process on commercial terms in order to push forward the Final Investment Decision (FID)
12	Natuna Sea A (Indonesia)	JV	Production	PTTEP Harbour Energy KUFPEC Petronas Pertamina	11.5% 28.67% 33.33% 15% 11.5%	98	2	Continue further compression project activities

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E&P Projects Detail - Middle East



						Production	on Volume		
	Project Name	Status	Phase	Participating Intere	Gas Liquid (MMSCFD) (KBPD)		Latest Status		
1	Abu Dhabi Offshore 1 (UAE)	JV	Exploration	PTTEP Eni	30% 70%	-	-	•	G&G study is ongoing
2	Abu Dhabi Offshore 2 (UAE)	JV	Exploration	PTTEP Eni	30% 70%	-	-	•	The development plan has been prepared and currently under reviewed by government
3	Abu Dhabi Offshore 3 (UAE)	JV	Exploration	PTTEP Eni	30% 70%	-	-	•	G&G study is on-going
4	Sharjah Onshore Area A (UAE)	JV	Exploration	PTTEP Eni SNOC	25% 50% 25%	-	-	•	In progress of additional geological study exploration well drilling preparation
5	Sharjah Onshore Area C (UAE)	JV	Exploration	PTTEP Eni SNOC	25% 50% 25%	-	-	•	Seismic processing in progress
6	Oman Block 6 (PDO)	JOC	Production	PTTEP Petroleum Development of Oman Shell TotalEnergies	2% 60% 34% 4%	-	881	•	Normal operations

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^{**} Production volume represent average volume for 100% of the project in Q3/2023

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E&P Projects Detail - Middle East



				Phase Participating Interest* (%)		Production Volume			
	Project Name	Status	Phase			Gas (MMSCFD)	Liquid (KBPD)	Latest Status	
7	Oman Block 53	JV	Production	PTTEP Occidental OOCEP Indian Oil Mubadala	1% 47% 20% 17% 15%	-	105	Normal operations	
8	Oman Onshore Block 12	JV	Exploration	PTTEP Total E&P Oman Block 12 B.V.	20% 80%	-	-	 Review G&G study result Plan for exploration wells drilling in 2023-2024 	
9	Oman Block 61	JV	Production	PTTEP BP Makarim Gas Development LLC Petronas	20% 40% 30%	1,501	78	Normal operations	

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E&P Projects Detail – Rest of the World



						Production Volume				
	Project Name	Status	Phase	Participating In	terest* (%)	Gas Liquid (MMSCFD)			Latest Status	
1	PTTEP Australasia	OP	Exploration	PTTEP	90%-100%	-	+	•	Signed an SPA to sell its total interests in AC/RL7	
2	Mozambique Area 1	JV	Development	PTTEP TotalEnergies, Mitsui, ENH, OVL OVRL & Oil India, Bharat	8.5% 26.5% 20% 15%, 10% 10%, 10%	-	-	•	The project is still under Force Majeure and suspension The current security situation has improved greatly and more manageable In the process of evaluating the possibility and preparing to returning to the area.	
3	Algeria 433a & 416b (Bir Seba)	JOC	Production	GBRS PetroVietnam Sonatrach	35% 40% 25%	-	10		On-going drilling activities Continue produce new wells and intervention existing wells.	
4	Algeria Hassi Bir Rekaiz	OP	Production	GHBR Sonatrach	49% 51%	-	9	•	Normal operations Achieved the plan to increase production level from 13 KBPD to 17 KBPD since August 2023	
5	Mariana Oil Sands (Canada)	OP	Exploration	PTTEP	100%	-	-	•	Completed the block relinquishment	

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

E&P Projects Detail – Rest of the World



						Production Volume				
	Project Name	Status	Phase	Participating Int	Participating Interest* (%)		Liquid (KBPD)		Latest Status	
6	Mexico block 12 (2.4)	JV	Exploration	PTTEP Petronas Ophir Mexico	20% 60% 20%	-	-	•	In process of the block relinquishment	
7	Mexico block 29 (2.4)	JV	Exploration	PTTEP Repsol PC Carigali Mexico Wintershal DEA	16.67% 30% 28.33% 25%	-	-	•	Pre-development study in progress	
8	Block 17/06 (Angola)	JV	Development	PTTEP TotalEnergies Sonangol SSI Acrep Falcon Oil	2.5% 30% 30% 27.5% 5%	-	-	•	Divestment in progress, the completion expected in 2023	
9	Dunga (Kazakhstan)	JV	Production	PTTEP TotalEnergies OOCEP	20% 60% 20%	2	12	•	Normal operations	

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Midstream Projects Detail



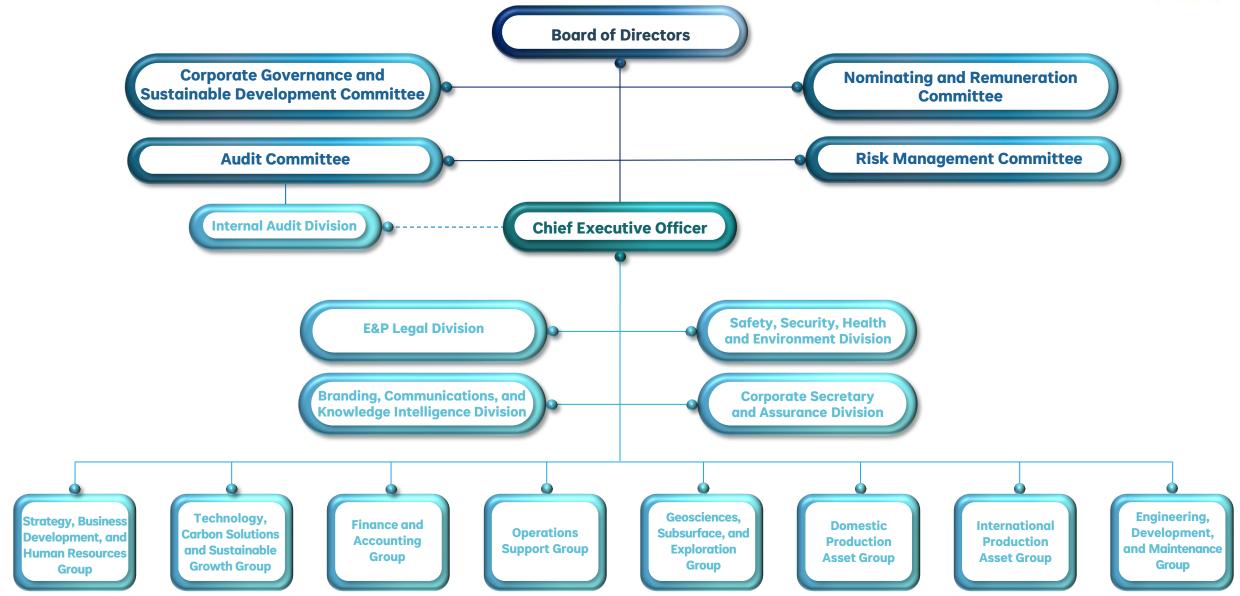
						Production Volume			
	Project Name	Status	Phase	Participating Interest* (%) Gas Liquid (MMSCFD) (KBPD)			Latest Status		
1	Oman LNG	Shareholder	Production	PTTEP Government of Oman Shell TotalEnergies Korea LNG Mitsubishi Mitsui Itochu	2% 51% 30% 5.54% 5% 2.77% 2.77% 0.92%	N/A	N/A	 Normal Operations Total capacity 10.4 MTPA Signed the Shareholder Agreement, in October 2023, to extend for an additional 10 years until 2034 	
2	ADNOC Gas Processing (AGP) [UAE]	٦V	Production	PTTEP ADNOC Shell TotalEnergies	2% 68% 15% 15%	N/A	N/A	 Normal Operations Total capacity 8 BCFD 	

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

Organization Structure





Ratios and Formula



Oil and Gas Reser	Oil and Gas Reserves						
Reserves Replacement Ratio 5-Yr Additional Proved Reserves / 5-Yr Production Volume							
Reserves Life Index (year)	Proved Reserves / Production Volume						
Success Ratio	Number of wells with petroleum discovery / Total number of exploration and appraisal wells						

Profitability	
Sales Revenue	Sales + Revenue from pipeline transportation
Lifting Cost (USD/BOE)	(Operating Exp. – Transportation Cost – Stock Variation – Other expenses not related to lifting) / Production Volume
Cash Cost (USD/BOE)	(Operating Exp. + Exploration Exp. + G&A + Royalties + Finance Cost) / Sales Volume
Unit Cost (USD/BOE)	(Operating Exp. + Exploration Exp. + G&A + Royalties + Finance Cost + DD&A) / Sales Volume
EBITDA	(Sales + Revenue from pipeline transportation) - (Operating expenses + Exploration expenses + Administrative expenses + Petroleum royalties and remuneration + Management's remuneration)
EBITDA Margin	EBITDA / Sales Revenue
ROA	Trailing-12-month net income / Average assets between the beginning and the end of the 12-month period
ROE	Trailing-12-month net income / Average shareholders' equity between the beginning and the end of the 12-month period

Leverage	
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

Conversion Table



Crude Oil					
From	Tonnes	Kilolitres	Barrels	US Gallons	Tonnes/year
Tonnes	1	1.165	7.33	307.86	-
Kilolitres	0.8581	1	6.2898	264.17	-
Barrels	1.1364	0.159	1	42	-
US Gallons	0.00325	0.0038	0.0235	1	-
Barrels per Day	-	-	-	-	49.8

Natural Gas and LNG										
From	BN Cubic metres NG	BN Cubic feet NG	MM tonnes oil equivalent	MM tonnes LNG	Trillion BTU	ММ ВОЕ				
1 BN cubic metres NG	1	35.315	0.86	0.735	34.121	5.883				
1 BN cubic feet Ng	0.028	1	0.024	0.021	0.966	0.167				
1 MM tonnes oil equivalent	1.163	41.071	1	0.855	39.683	6.842				
1 MM tonnes LNG	1.36	48.028	1.169	1	46.405	8.001				
1 Trillion BTU	0.029	1.035	0.025	0.022	1	0.172				
1 MM BOE	0.17	6.003	0.146	0.125	58	1				