







Analyst Meeting Q3 2022 26 October 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.

Agenda





CEO Remarks

Montri Rawanchaikul Chief Executive Officer



Business Update

Natruedee Khositaphai
EVP, Strategy and Business
Development



Financial Results

Sumrid Sumneing EVP, Finance & Accounting



Q&A Session





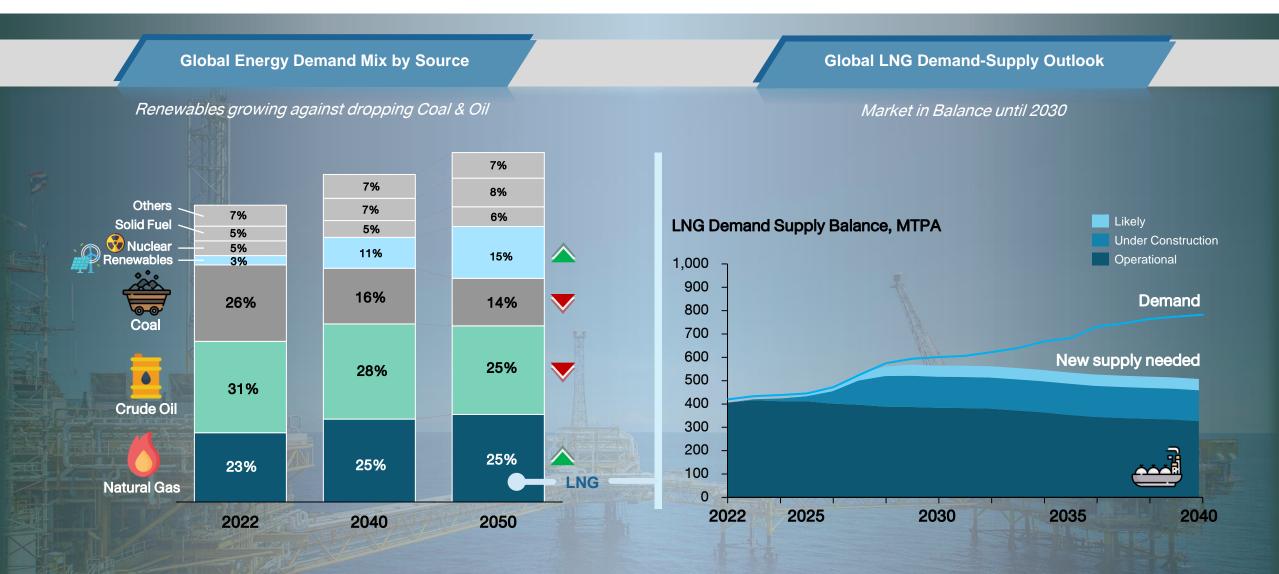
CEO Remarks

Montri Rawanchaikul
Chief Executive Officer



Gas as Transitional fuel to Low Carbon Energy Future





Energy Trilemma

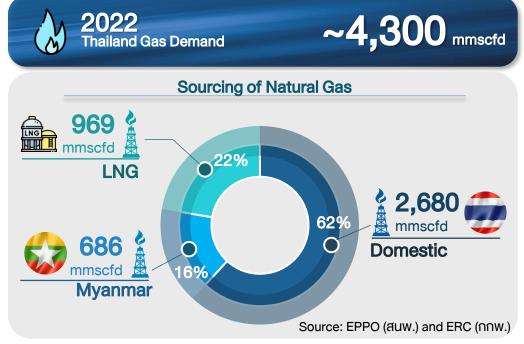
Key to the future energy source is to find the **RIGHT BALANCE**

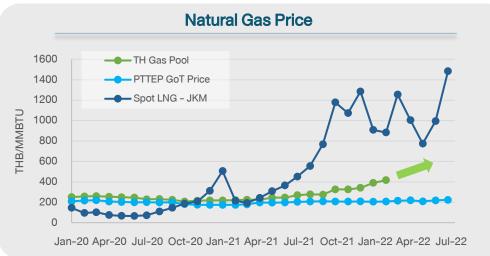


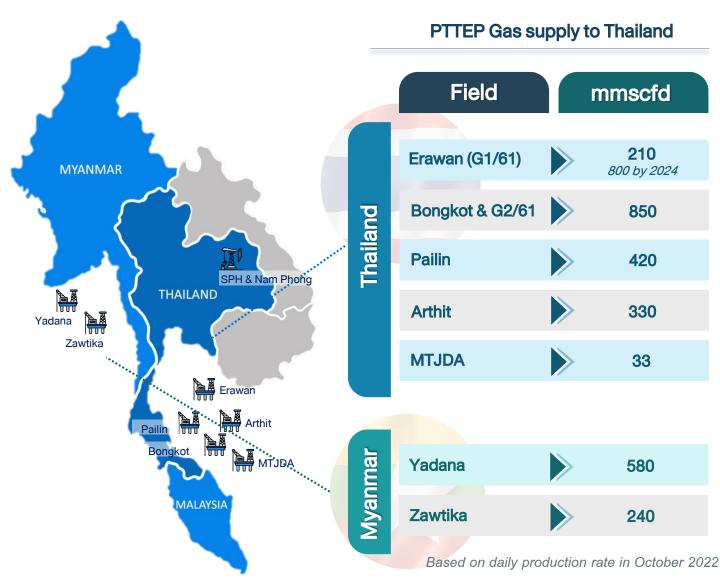


Deliver Security & Affordable Energy to Thailand













Business Update

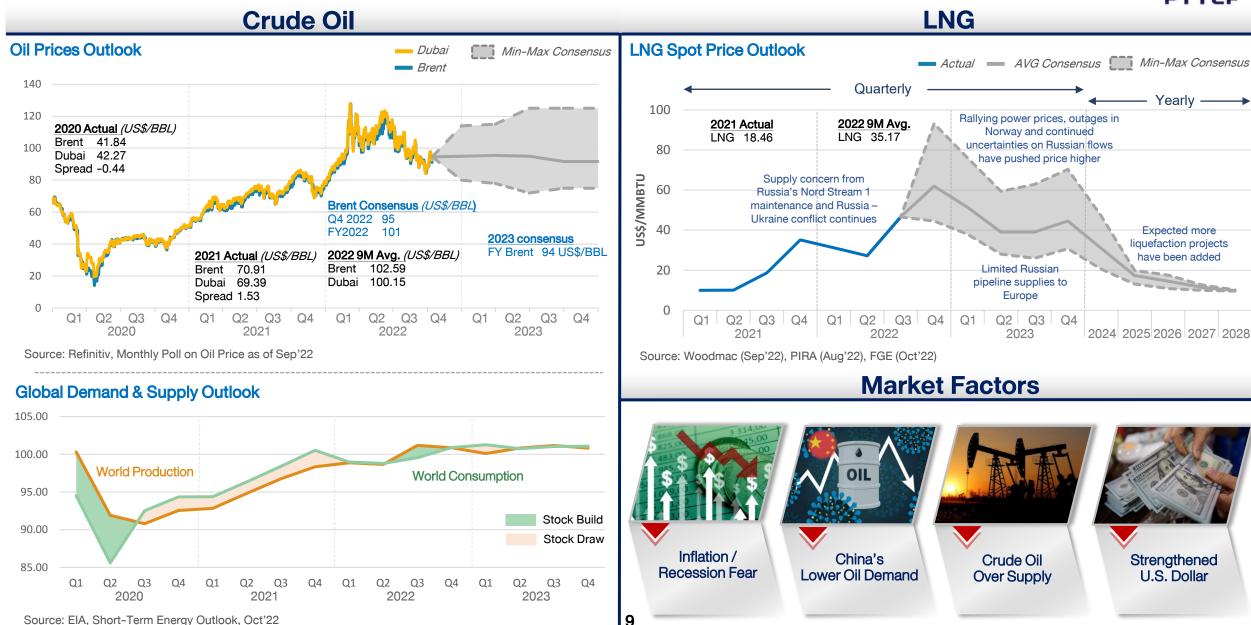
Natruedee Khositaphai

EVP, Strategy and Business Development



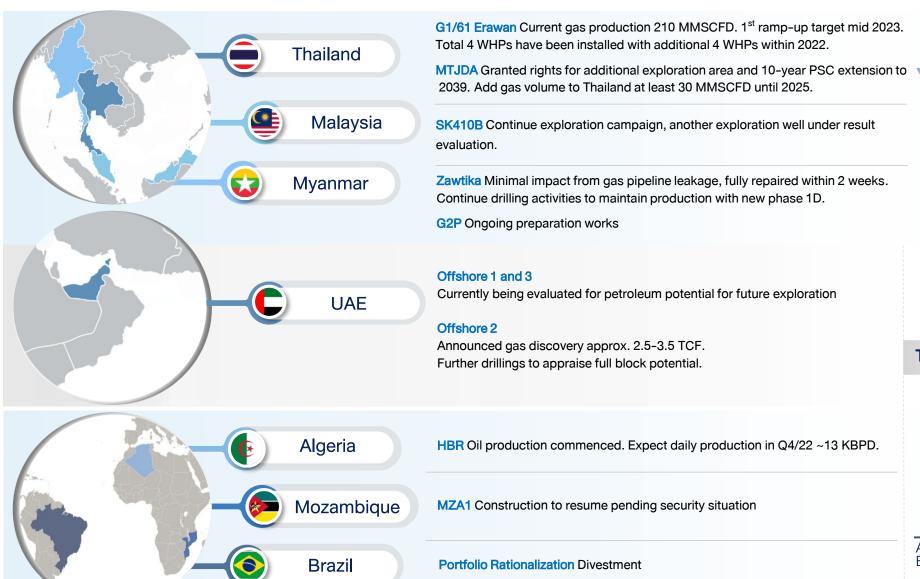
Market Update





Projects Update Q3/2022







Pathway to Decarbonize



GHG Emissions Reduction (Avoid & Mitigate)

PTTEP has continued to reduce GHG emissions since 2012.



GHG Offsetting





2022 Low Carbon and Sustainable Business Award (highest level)

from the Thailand Greenhouse Gas Management Organization (TGO)



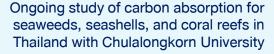








Completed pilot-scale seagrass plantation study in Koh Tean, Surat Thani with Kasetsart University









Financial Results

Sumrid SumneingEVP, Finance and Accounting



Profit and Loss



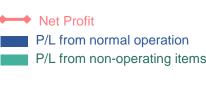
Q3/2022 Key events **Exploration wells write**off in Australia

MTJDA Production Period Extension

Tax incentives Malaysia Sabah-H

Brazil Assets Divestment

Unit: million USD



Major Non-operating items

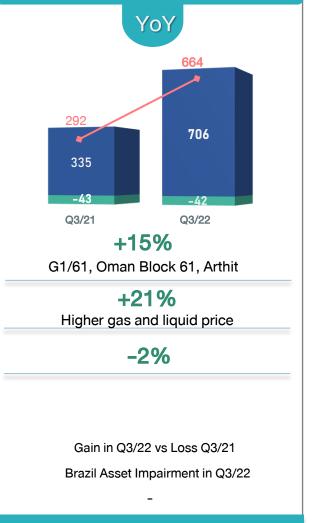
Oil Price Hedging

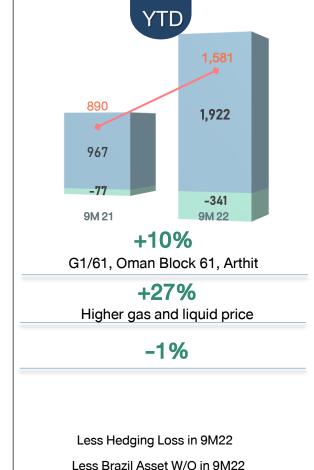
Impairment / Asset Write-off

Gain from Bargain Purchase





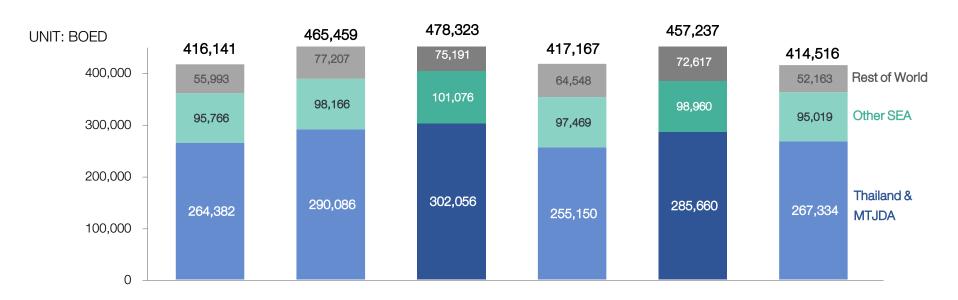




Gain from Bargain Purchase in 9M21

Volume and Price

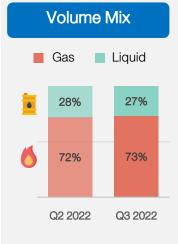




Product Price	2021	Q2 22	Q3 22	Q3 21	9M 2022	9M 2021
Gas (\$/MMBTU)	5.69	6.10	6.18	5.76	6.12	5.66
Liquid (\$/BBL)	66.70	105.47	97.94	69.16	98.44	63.40
Weighted Avg. (\$/BOE)	43.49	55.61	53.68	44.25	53.62	42.34
Avg. Dubai (\$/BBL)	69.39	108.22	96.68	71.68	100.29	66.35
Avg. HSFO (\$/BBL)	64.42	104.67	74.44	68.35	89.02	62.14
(High Sulphur Fuel Oil)						

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

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

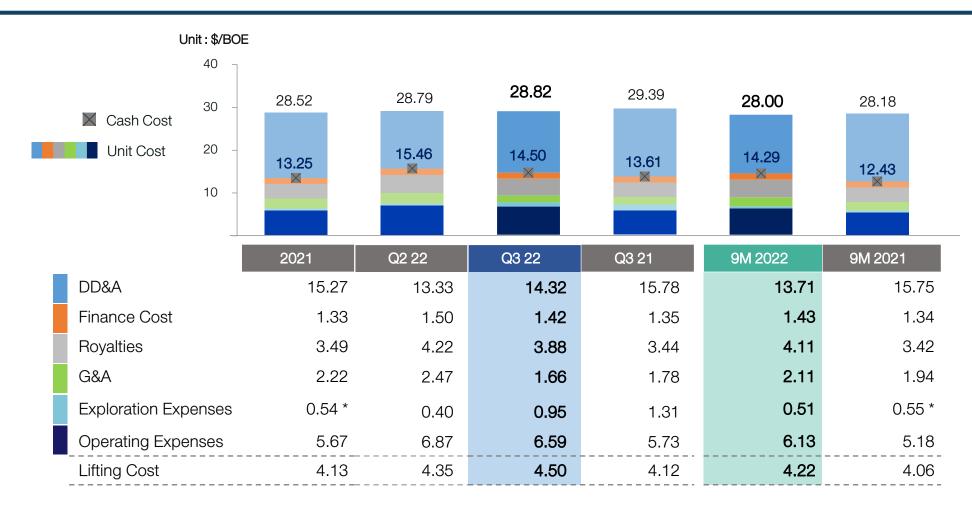






Unit Cost





Note: * Exclude Exploration assets write-off in Brazil for 9M 2021, and 2021

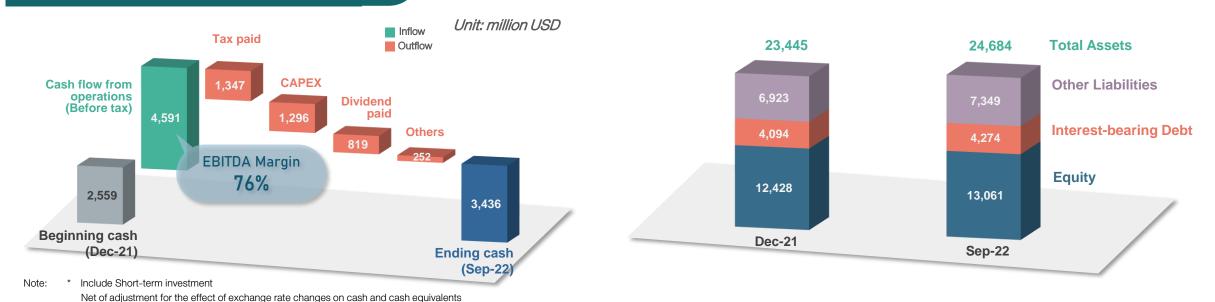
All Unit Cost shown above exclude costs related to new business

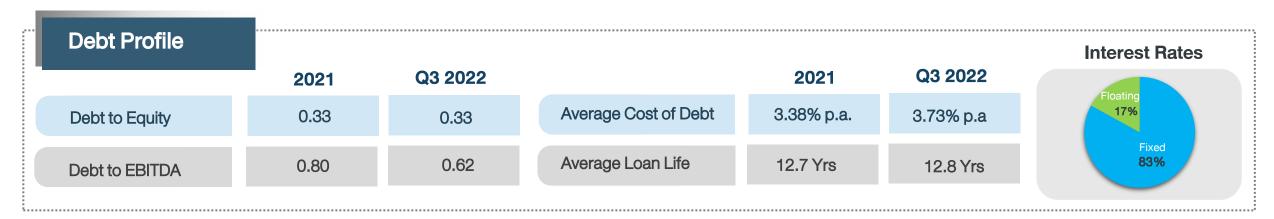
The formulas for calculating ratios are provided in the supplementary section for your reference

Cashflows, Financial Position and Debt Profile



Cashflow & Financial Position





Guidance and Ratings



Outlook

Sales Volume (KBOED)



~468

FY 2022

Gas Price (US\$/MMBTU)



~6.3

Unit Cost (US\$/BOE)



~29-30

Profitability (EBITDA Margin)



70-75%





^{*} Based on average Dubai oil price in 2022 at 97 \$/BBL



Supplementary information

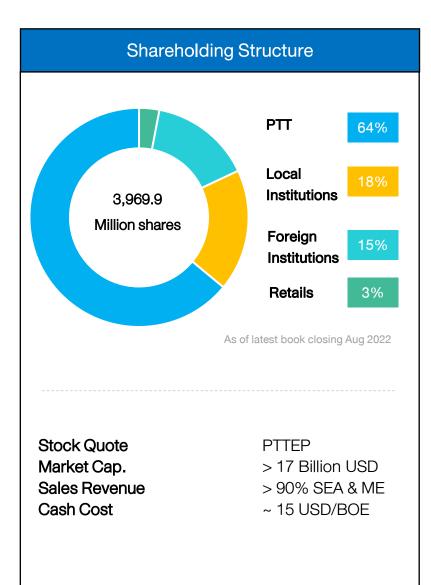




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	Profit and Loss Statement Reserves Finance E&P Business Beyond E&P Business SD & ESD Key Ratios & Dividend Thailand Energy Market Projects Information Organization Structure Ratio and Formula

Company Overview







Key Strategies

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 in upstream and midstream business

Decarbonize

- E&P Net Zero 2050
- Execute GHG emission reduction plan
- Accelerate CCS projects
- Maximize use of renewables and future energy in operation
- Pursue emission offsetting and ocean for life

Diversify

- Scale up AI and Robotics Ventures (ARV)
- Capture gas-to-power and renewable energy opportunity
- Explore CCUS, H₂, and Future Energy
- Commercialize in-house technology

Results | Profit and Loss Statement



Unit: million USD

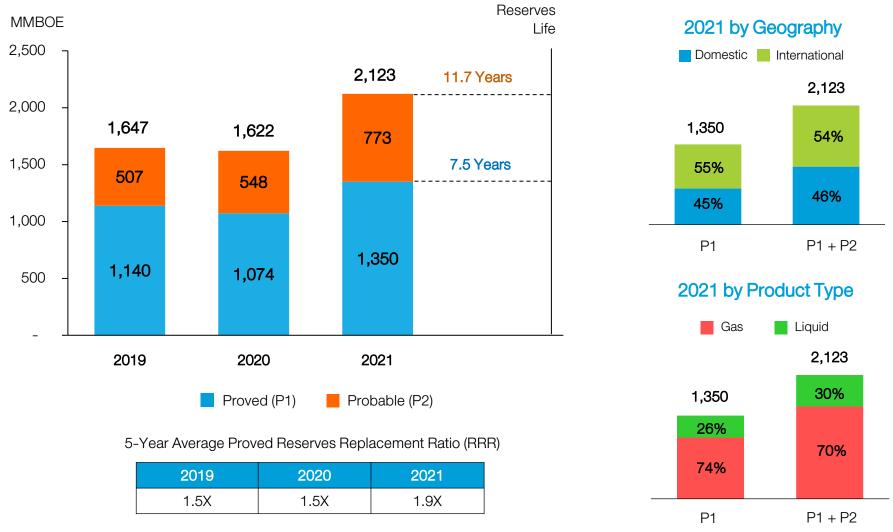
	Q3 22	Q2 22	%QoQ	Q3 21	%YoY	9M 22	9M 21	%YTD	
Total Revenues	2,617	2,469	6%	1,784	47%	7,008	5,331	31%	
Sales ⁽¹⁾	2,388	2,383	0.2%	1,744	37%	6,801	4,864	40%	
Sales Volume (BOED) (2)	478,323	465,459	3%	417,167	15%	457,237	414,516	10%	
Sales Price (US\$/BOE)	53.68	55.61	(3%)	44.25	21%	53.62	42.34	27%	
Gain from a bargain purchase	-	-	-	_	-	-	350	(100%)	
Others ⁽³⁾	229	86	>100%	40	(>100%)	207	117	77%	
Total Expenses	1,936	1,882	3%	1,499	29%	5,433	4,453	22%	
Major Expenses:									
Operating Expenses	300	291	3%	220	36%	789	586	35%	
Exploration Expenses	42	17	>100%	50	(16%)	64	207	(69%)	
G&A	80	112	(29%)	72	11%	285	229	24%	
DD&A	631	565	12%	606	4%	1,713	1,782	(4%)	
oss on Financial Instruments	-	-	-	5	(100%)	84	228	(63%)	
mpairment Loss on Assets	95	-	100%	-	100%	95	-	100%	
ncome Tax Expenses	468	610	(23%)	326	44%	1,575	839	88%	
Share of profit (loss) from associates and JV	(17)	13	(>100%)	7	(>100%)	6	12	(50%)	
Net Profit	664	600	11%	292	>100%	1,581	890	78%	
Profit (Loss) from normal operation	706	647	9%	335	>100%	1,922	967	99%	
Profit (Loss) from non-operating items	(42)	(47)	11%	(43)	2%	(341)	(77)	(>100%)	
Non-operating items breakdown:									
Oil Price Hedging	94	(38)	>100%	(41)	>100%	(184)	(289)	36%	
Tax from Effect of FX	(13)	(11)	(18%)	(2)	(>100%)	(26)	(11)	(>100%)	
Effect from FX and others	(28)	2	(>100%)	-	(100%)	(36)	18	(>100%)	
Impairment Loss on Assets	(95)	-	(100%)	-	(100%)	(95)	-	(100%)	
Exploration assets write-off	-	-	-	-	-	-	(145)	100%	
Gain from a bargain purchase	_	-	-	-	-	-	350	(100%)	

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

⁽²⁾ Exclude Oman Block 61 deemed sales volume from tax payment by government (2) Exclude Oman Block 61 deemed sales volume from tax payment by government
(3) Consisted of Revenue from Pipeline, Gain from FX, Forward Contract, Gain from Oil price Hedging, and FSO vessel rental income.

E&P Business | Reserves





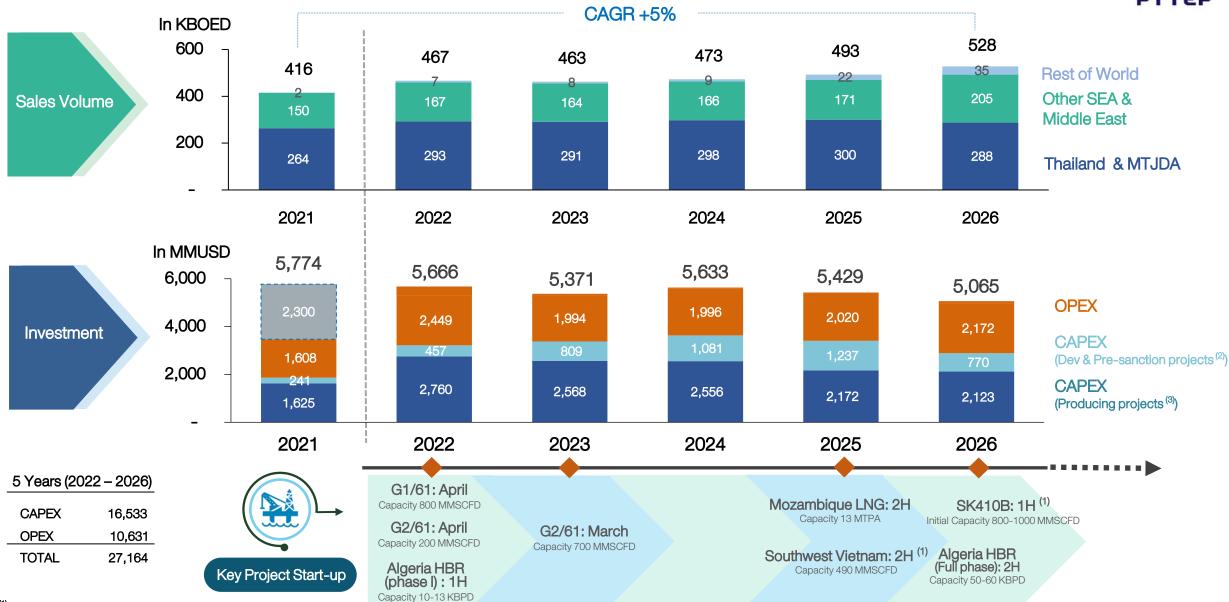
[•] Based on total production of natural gas, condensate, and crude oil (including LPG) of 495 KBOED for the year ended December 31, 2021

As of December 2021

Figures include reserves from equity method

Finance 5-year Sales Volume & Investment Budget (announced December 2021)





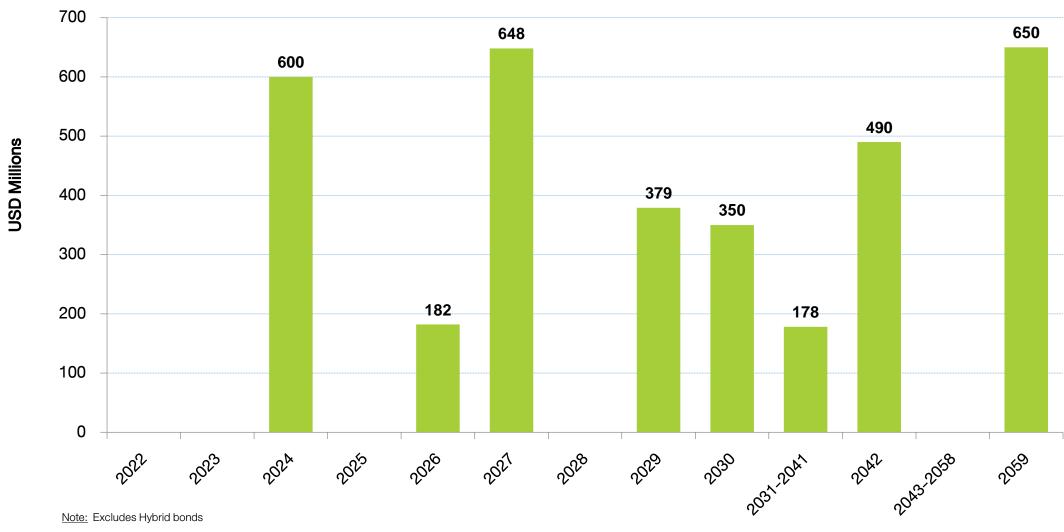
Note: (1) Subject to regulatory approval and FID timing

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

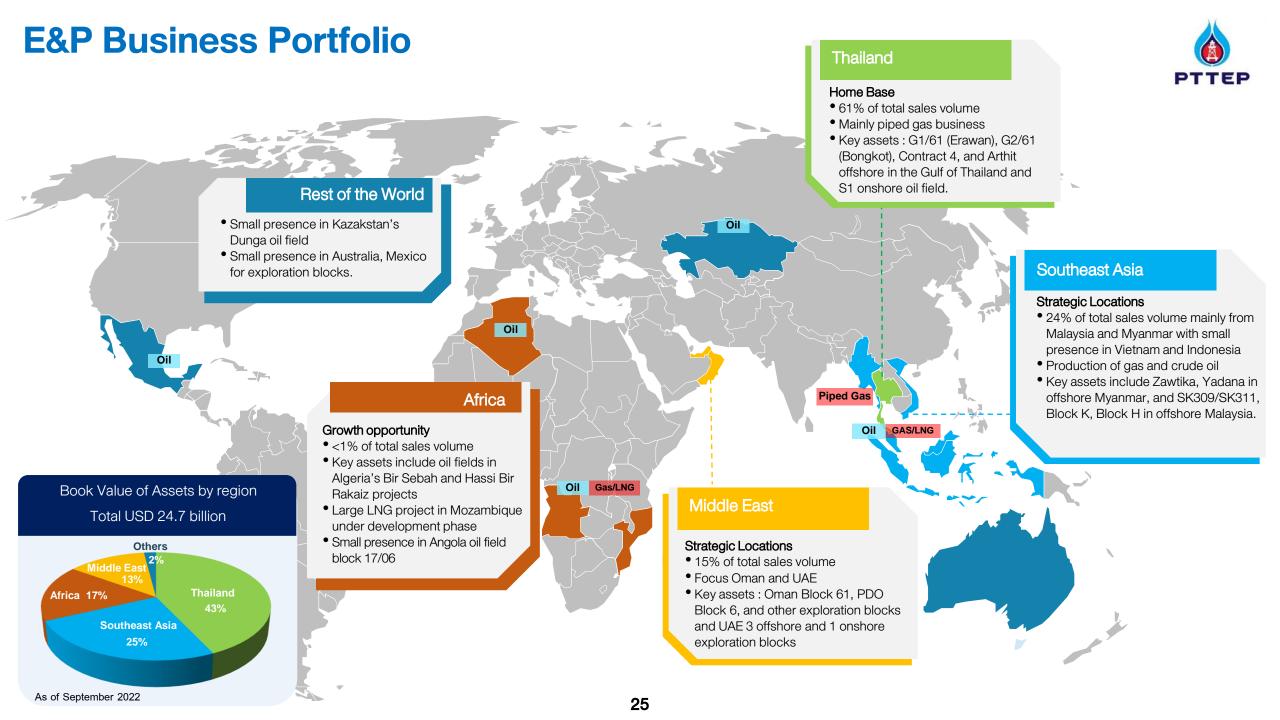
⁽³⁾ Including exploration and appraisal in all projects and head office CAPEX, and new businesses

Finance | Debt Maturity Profile





As of September 2022 24



E&P Business | Thailand, Myanmar and Malaysia



Myanmar

Production

Zawtika (WI 80%)

Production Volume gas 319MMSCFD (9M2022)

Yadana (WI 37.1%)

• Production Volume gas 754MMSCFD (9M2022)

Exploration

M3 (WI 100%)

Pending development

Malaysia

Production

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

 Production Volume crude 26KBPD and gas 30MMSCFD (9M2022)

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

• Production Volume gas 260MMSCFD (9M2022)

SK309 and SK311 (WI 42-59.5%)

- Including East Patricia field
- Production Volume gas 200MMSCFD, and crude 18KBPD (9M2022)

Exploration

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



Thailand

Production

G1/61 Erawan (WI 60%)

- FY2022 daily gas production 200-220MMSCFD
- Ramp-up in progress to 800MMSCFD in Apr 2024
- Sole investment 100%

G2/61 Bongkot (WI 100%)

• GBN Transition completed. Production 200MMSCFD.

Bongkot (WI 66.67%)

- Production volume gas 730MMSCFD and condensate 19KBPD (9M2022)
- Remaining transition to G2/61 in Mar 2023 at 500MMSCFD

Arthit (WI 80%)

 Production Volume gas 298MMSCFD and condensate 16KBPD (9M2022)

Contract 4 (WI 60%)

 Production Volume gas 415MMSCFD and condensate 15KBPD (9M2022)

S1 (WI 100%)

Production Volume crude oil 25KBPD (9M2022)

MTJDA (WI 50%)

Production Volume gas 290MMSCFD (9M2022)

E&P Business | The 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%)

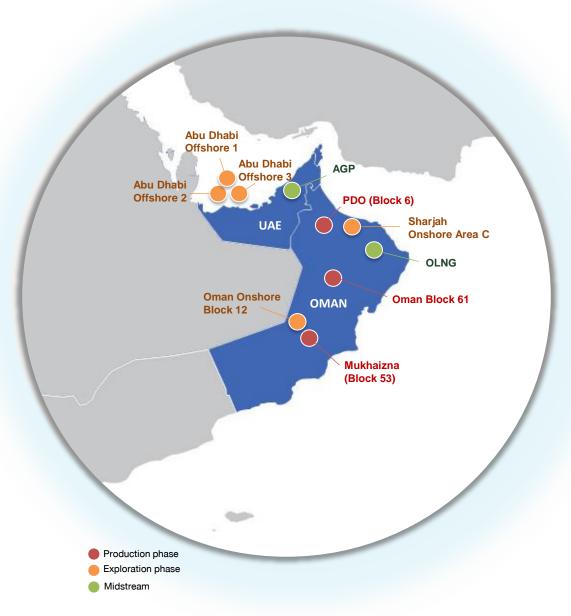
Sharjah Onshore Area C (WI 25%)

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

Midstream

ADNOC Gas Processing (WI 2%)

- AGP is 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

PDO Block 6 (WI 2%)

- Largest asset covering around 1/3 of the country. Average oil production volume of 660 KBPD (9M2022)
- Operated by Petroleum Development of Oman

Mukhaizna Block 53 (WI 1%)

- Largest single onshore producing field in Oman. Average oil production volume of 94 KBPD (9M2022)
- Operated by Occidental Petroleum (WI 47%)

Block 61 (WI 20%)

- Largest tight gas development in Middle East
- Gas and condensate daily production rate of 1,500 MMSCFD and 61,000 BPD (9M2022).
- Operated by BP (40% interest)

Exploration

Onshore Block 12 (WI 20%)

Operated by Total E&P Oman (80% interest)

Midstream

OMAN LNG (WI 2%)

- The only LNG facility in Oman. Processing capacity 10.4 MTPA.
- Operated by Government of Oman (WI 51%)

E&P Business | Africa



Algeria

Production

Bir Seba (WI 35%)

- Oil production consisting of block 433a, 416b
- Operated by PVEP (WI 40%)
- Production volume crude 16KBPD

Hassi Bir Rekaiz (WI 49%)

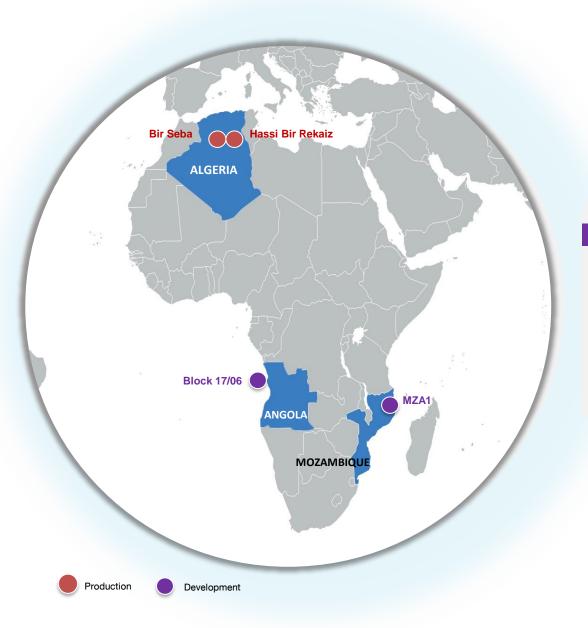
- HBR oil filed consisting of block 443a, 424a and 415ext
- 1st Oil in June 2022 and will start delivering sales volume in Q4/2022.
- Operated by Groupment (WI 51%)
- Production volume crude 13KBPD

Angola

Development

Block 17/06 (WI 2.5%)

- FID in July 2022 for Begonia offshore oil field in the Lower Congo Basin, estimated production capacity at 30KBPD.
- Operated by TotalEnergies (WI 30%)



Mozambique

Development

MZA1 (WI 8.5%)

- High quality reservoirs capable up to 200MMSCFD per well
- 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%)

Beyond E&P Business | Overall



Decarbonization

New Energies

Advanced Technology

Corporate Venture Capital (CVC)

Technology Enabler





Carbon Capture & Utilization (CCU)

CO2-to-Methanol



Hydrogen / Power-to-X

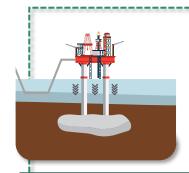


In-house Tech

Value-added Technology







Carbon Capture & Storage (CCS)
Initiative

Support Decarbonization Demand



Power Business

- Gas-to-Power
- Renewables

Foundation for new energies



AI & Robotic

Growth in Technology Business

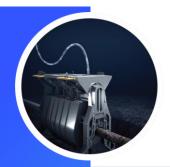
Beyond E&P Business | ARV



JOINT

VENTURES





RCVULA

Nextgen marine & subsea solutions for safety efficiency and reduced carbon footprint



Xplorer AUV Surveillance & inspection

RotoClimber

Vertical Repair

& Maintenance



Nautilus Horizontal Repair & Maintenance



XSpector Computer Vision Analytics & Insights





Artificial Intelligence and **Augmented Reality Solutions** for critical infrastructure management



UAS Data Capture and Inspection



HORRUS Pilotless UAS systems For autonomous dispatch





Asset Management **Platform**



HIGHSIGHT Integrated teleoperations Solutions for surveillance and asset inspection



Technologies & Businesses

Al and Robotics Ventures

ARV is the venture building platform of PTTEP. We leverage artificial intelligence and robotics technologies to unlock value and create business growth opportunities across industries spanning air, land, and sea. Through innovation, R&D, go-tomarket and partnership activities, we aspire to deliver unparalleled experiences to the ecosystems we engage with.





varuna

Crop Sustainability and Nature-based Carbon Solutions



Precision Farming



KANNA Retail Carbon Farming





Remote Sensing Solutions for agri-land management



MAKARA Nature-based Carbon Solutions







Health Tech API Platform for life-changing personalized health innovation



NEXTCERCISE

Fitness Monitoring



BEAUT Personalized Care and Wellness

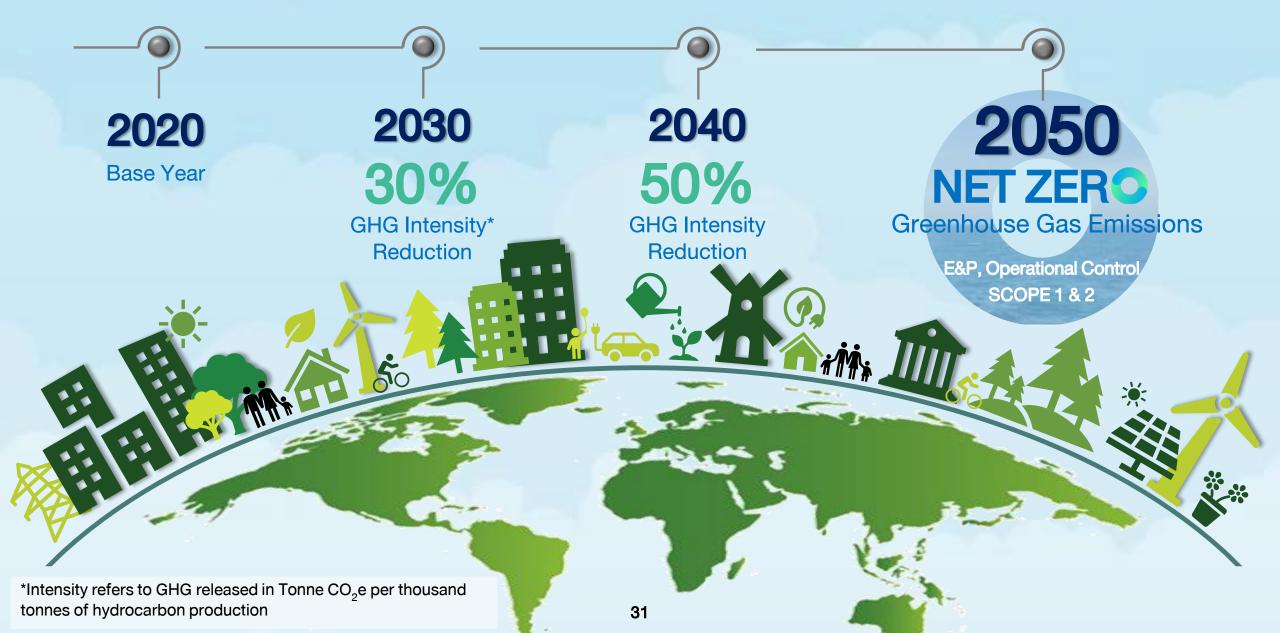


ARVIC Health Ecosystem



SD & ESG | Net Zero Ambition





SD & ESG Update



Decarbonization

GHG Intensity Reduction Target 30% By 2030 (2020 base year)

Net Zero By 2050

♦PROGRESS

Reduction of GHG Emission Intensity

As of Q3/2022, > 124,000 TCO₂e Reduction since Jan 2022





Circular Model



♦PROGRESS♦

Waste to Landfill



WHP Jacket Reuse

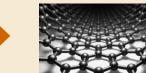
Conduct a feasibility study for the reuse of Wellhead Platform (WHP) jacket in addition to the reuse of Wellhead Platform (WHP) topside

Upcycling High Volume Waste



Sand to Zeolite: Completed prototype study result to turn sand waste from petroleum production at Zawtika project to nano silica and zeolite with good moisture absorption rate

Oil sludge conversion to Graphene: Completed lab scale unit fabrication



Ocean for Life



Net Positive Impact

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

Increase in Local community income vs baseline by 2030

♦PROGRESS

Ocean Health & Biodiversity Monitoring



Collaborated with Hydro-Informatics Institute (HII) & Kasetsart University to collect ocean data by deploying an ocean current mapper [1st time in Thailand]

Conducting a pilot-scale seagrass plantation study in Koh Tean, Surat Thani



Ramp Up CSR around Ocean Flagship Projects



 4 Aguatic Animal Hatchery Learning Centers Established (Phetchaburi, Prachuap Khiri Khan, Samut Songkhram & Rayong)

> More than 10 km² Conservation Area & Fish Home

 Handed over the sea turtle conservation exhibition & sea turtle hatchery buildings to the Royal Thai Navy Sea (Chonburi)

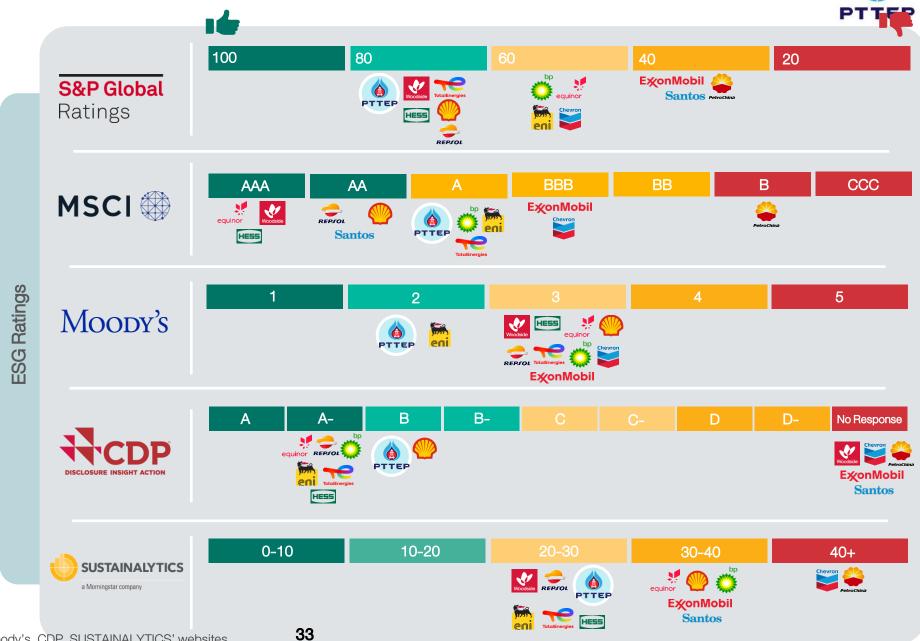
SD & ESG | Disclosure and Ratings







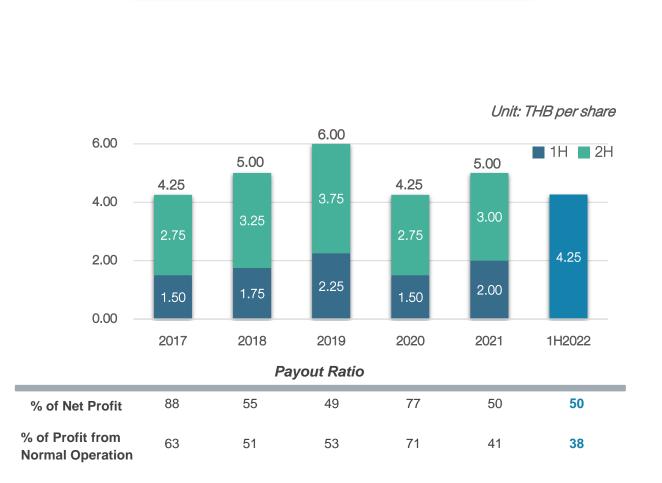
ESG Standards



Finance | Key Ratios & Dividend Payment History



Key Ratios					
	Q2'2022	Q3'2022			
EBITDA Margin	75%	76%			
Debt to Equity	0.33	0.33			
Debt to EBITDA	0.69	0.62			
Current Ratio	1.85	1.96			
ROA	6.5%	7.9%			
ROE	18%	21%			



Dividend Payment History

Thailand Energy Market | Overview

1,000

2.000

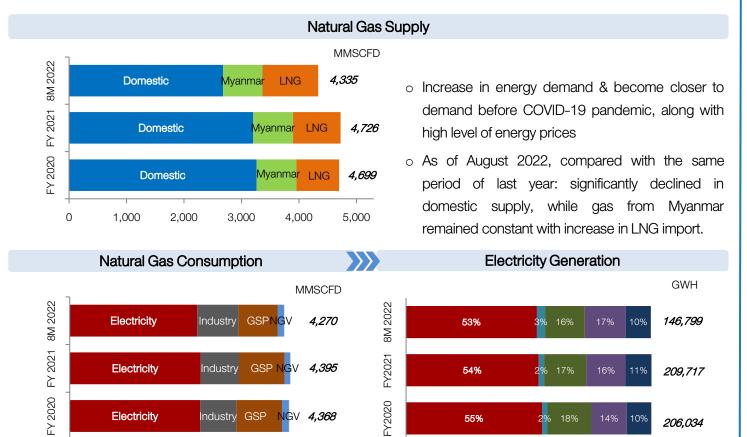
Source: Energy Policy and Planning Office (EPPO)

3.000

4.000

5,000

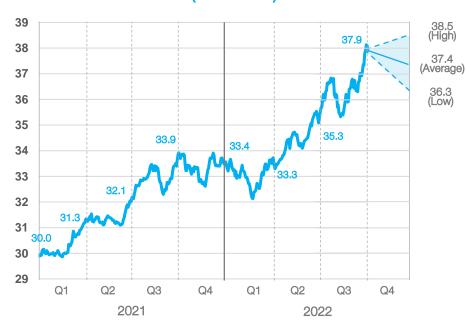




Natural Gas

Imported

Exchange Rate Movement (USD/THB)



Consensus on the exchange rate mostly depends on

- Monetary policies and rate hike schedules of the Bank of Thailand and Federal Reserve
- o Economic recovery of Thailand in particular the tourism sector
- o Market risk-off factors such as high inflation and supply chain disruptions

Source: Bank of Thailand, Bloomberg

Forecast based on Bloomberg Consensus as of 17 October 2022

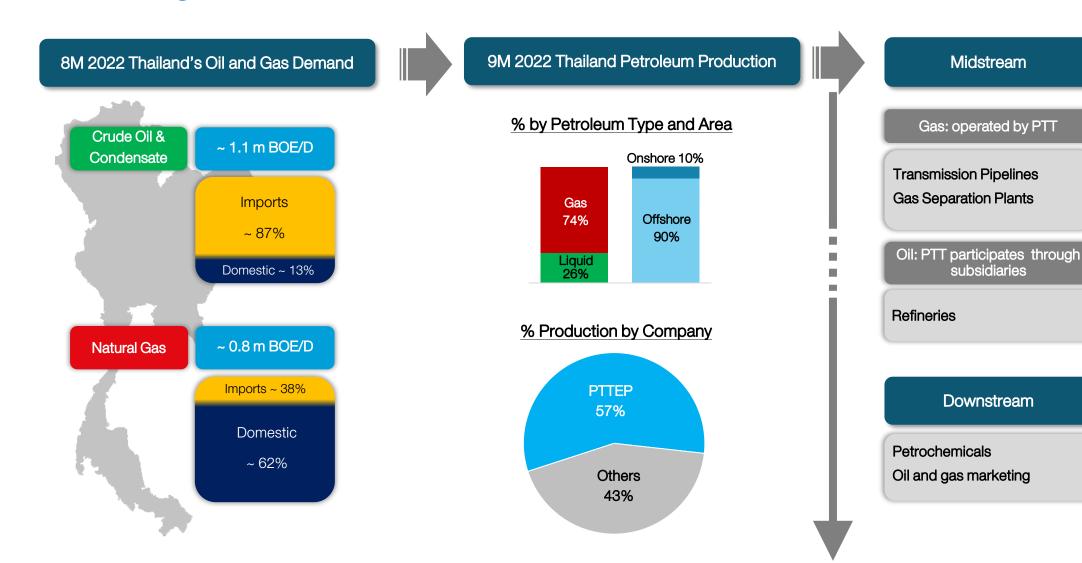
Hydro Electricity

Renewable Energy

Coal & Lignite

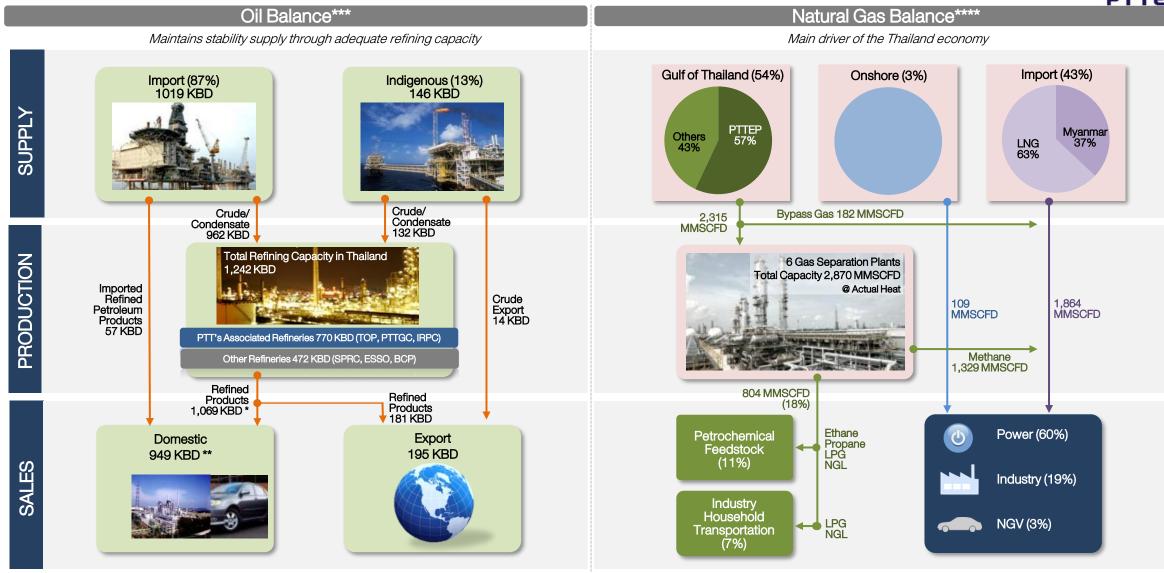
Thailand Energy Market | Value Chain





Thailand Energy Market | Oil & Gas Balance





Source: PTT

* Refined product from refineries = 990 KBD, including domestic supply of LPG from GSPs and Petrochemical Plants = 79 KBD

** Included Inventory

*** Information as of 6M 2022

**** Information as of 6M 2022 MMSCFD @ Heating Value 1,000 Btu/ft³

Projects Details | Thailand (as of September 2022)



	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%	287	16	Ensure gas delivery per DCQ
2	B6/27	Operator	Production	PTTEP	100%	-	-	Prepare for decommissioning activities
3	B8/32 & 9A	JV	Production	PTTEP Chevron MOECO KrisEnergy Palang Sophon	25.01% 51.66% 16.71% 4.63% 2%	47	10	Normal operations
4	Bongkot	Operator	Production	PTTEP TotalEnergies	66.67% 33.33%	701	19	 Block 15 ended the concession on Apr 23, 2022 and operates under G2/61 project. Block 16 and Block 17 has maintained production until end of concession on Mar 7, 2023 Maintain production level as planned
5	Contract 4 (Pailin)	JV	Production	PTTEP Chevron MOECO	60% 35% 5%	405	16	Ensure gas delivery at DCQ
6	E5	JV	Production	PTTEP EXXON MOBIL	20% 80%	7	-	Ensure gas delivery at DCQ

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

^{**} Sales volume represent average volume for 100% of the project during 9M2022

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

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

Projects Details | Thailand (as of September 2022)

PTTE	=

									PITEP
	Project Name	Status	Phase	Participating In	nterest* (%)	Sales Vol Gas (MMSCFD)	Sales Vol Liquid (KBPD)		Latest Status
7	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
8	G4/48	JV	Production	PTTEP Chevron MOECO	5% 71.25% 23.75%	1	-	•	Decommissioning activities in progress
9	L53/43 & L54/43	OP	Production	PTTEP	100%	-	0.7	•	Normal operations
10	PTTEP 1	OP	Production	PTTEP	100%	+	0.2	•	Maintain production plateau
11	S1	OP	Production	PTTEP	100%	8	Crude: 25 KBPD LPG: 175 MTon/Day	•	Production optimization and long-term development are on-going
12	Sinphuhorm	OP	Production	PTTEP Apico EXXON MOBIL	55% 35% 10%	97	0.3	•	Ensure gas delivery at DCQ
13	L22/43	OP	Production	PTTEP	100%	-	-	•	Production suspended Pending drilling results to determine further production/ development plans

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

^{**} Sales volume represent average volume for 100% of the project during 9M2022

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

Projects Details | Thailand (as of September 2022)



	Project Name	Status	Phase	Participating I	nterest* (%)	Sales Vol Gas (MMSCFD)	Sales Vol Liquid (KBPD)		Latest Status
14	MTJDA	JOC	Production	PTTEP Petronas Carigali	50% 50%	276	9	•	Granted extension of 10-year production period, as well as additional 30MMSCFD of gas production which will be delivered to Thailand until end of 2025 to serve Thai energy demand.
15	G9/43	OP	Exploration	PTTEP	100%	-	-	•	Activity suspended
16	G1/61 (Erawan)	OP	Production	PTTEP Mubadala	60% 40%	123	5	•	On-going drilling and WHP installation activities. Total 8 WHP for 2022.
17	G2/61 (Bongkot)	OP	Production	PTTEP	100%	115	4	•	On-going drilling and WHP installation activities.

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^{**} Sales volume represent average volume for 100% of the project during 9M2022

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

Projects Details | Myanmar, Malaysia, Other SEA (as of September 2022)



	Project Name	Status	Phase	Participating I	nterest* (%)	Sales Vol Gas (MMSCFD)	Sales Vol 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%	26 **	30 **	 The inspection and maintenance were completed as planned Completed drilling wells in GK as part of field development Prepare for drilling in Kikeh in Q4/2022
2	Malaysia SK309 and SK311	OP	Production	PTTEP	42 – 59.5%	200 **	18 **	In the process drilling of 4 new infill wells on West Patricia
3	Malaysia Block H	OP	Production	PTTEP	42 – 56%	260 **	-	Ensure gas delivery at DCQPreparing for exploration wells drilling in early 2023
4	Malaysia – Other projects	OP	Exploration	PTTEP	42.5 - 80% (varied by permits)	-	-	 SK410B: Additional drilling completed in Sep 2022 and under result evaluation. For LLB, expect FID 2023. SK417: Planning and preparing for the drilling of appraisal well SK405B: Sirung Pre-Development Study is ongoing SK438: Well planning in progress SK314A: Drilling preparation SB412: Preparing for exploration activities and focusing on seismic activity
5	Yadana (Myanmar)	JV	Production	PTTEPI Chevron MOGE	37.1% 41.1% 21.8%	737	-	Operatorship transfer completed in July 2022 as planned
6	Zawtika : M9 & a part of M11 (Myanmar)	OP	Production	PTTEP Myanma Oil and Gas Enterprise (MOGE)	80% 20%	310	-	 On the development process of Phase 1D to maintain production level In the process of additional wellhead platform construction Reparation of onshore pipeline leakage was completed, caused 2-week interruption on gas imported to Thailand

PTTEP denotes respective PTTEP subsidiaries participating in the project

^{**} Sales volume represent average volume for 100% of the project during 9M2022 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 (as of September 2022)



									PTTEP
	Project Name	Status	Phase	Participating I	nterest* (%)	Sales Vol Gas (MMSCFD)	Sales Vol Liquid (KBPD)		Latest Status
7	Myanmar M3	OP	Exploration	PTTEP	100%	-	-	•	Pending for Final Investment Decision (FID)
8	Vietnam 9-2	JOC	Production	PTTEP Vietnam Oil and Gas Group Pharos Energy	25% 50% 25%	12	3	•	Maintain production level Prepare for dev. Drilling in Q4/2022
9	Vietnam 16-1	JOC	Production	PTTEP Vietnam Oil and Gas Group Pharos Energy OPECO	28.5% 41% 28.5% 2%	4	12	•	Maintain production level Prepare for dev. Drilling in Q4/2022
10	Vietnam B & 48/95	JV	Exploration	PTTEP Vietnam Oil and Gas Group MOECO	8.5% 65.88% 25.62%	-	-	•	Final Investment Decision (FID) planned in 2023
11	Vietnam 52/97	JV	Exploration	PTTEP Vietnam Oil and Gas Group MOECO	7% 73.4% 19.6%	-	-	•	Final Investment Decision (FID) planned in 2023
12	Natuna Sea A (Indonesia)	JV	Production	PTTEP Premier Oil KUFPEC Petronas Pertamina	11.5% 28.67% 33.33% 15% 11.5%	175	1	•	Normal operations

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

^{**} Sales volume represent average volume for 100% of the project during 9M2022

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

Projects Details | Middle East (as of September 2022)



	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%	-	-	•	G&G study is ongoing
2	Abu Dhabi Offshore 2 (UAE)	JV	Exploration	PTTEP Eni Abu Dhabi	30% 70%	+	-	•	Completed the first exploration well XF-002
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%	-	-	•	Seismic acquisition completed, currently under seismic evaluation stage
5	Oman Block 6 (PDO)	JOC	Production	PTTEP Government of Oman Shell TotalEnergies	2% 60% 34% 4%	-	660 **	•	Normal operations
6	Oman Block 53	JV	Production	PTTEP Occidental OOCEP Indian Oil Mubadala	1% 47% 20% 17% 15%	-	94 **	•	Normal operations

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

^{**} Sales volume represent average volume for 100% of the project during 9M2022 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 (as of September 2022)



	Project Name	Status	Phase	Participating Interes	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%	-	-	 Currently under G&G study Plan for exploration wells drilling in 2024
8	Oman Block 61	JV	Production	PTTEP BP Makarim Gas Development LLC PC Oman Ventures Limited (PETRONAS)	20% 40% 30% 10%	1,504	60	Normal operations

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

^{**} Sales volume represent average volume for 100% of the project during 9M2022

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

Projects Details | Rest of the World (as of September 2022)



	Project Name	Status	Phase	Participating Into	erest* (%)	Sales Vol Gas (MMSCFD)	Sales Vol Liquid (KBPD)	Latest Status
1	PTTEP Australasia	OP	Exploration	PTTEP	90%-100%	-	-	 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 OVRL & Oil India , Bharat	8.5% 26.5%,20% 15%, 10% 10%, 10%	-	-	 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%	-	16 **	Target to tie-in and produce from new wells starting from Q4/2022
4	Algeria Hassi Bir Rekaiz	OP	Production	GHBR Sonatrach	49% 51%	-	-	 1st oil production 1 June 2022 with daily production rate 13 KBPD Continue remaining drilling and construction work to be completed Phase 1 in Q2/2023
5	Mariana Oil Sands (Canada)	OP	Exploration	PTTEP	100%	-	-	 Reclamation activities in progress to return the area to Canadian government
6	Barreirinhas AP1 (Brazil)	JV	Exploration	PTTEP Shell Brasil Mitsui E&P Brasil	25% 65% 10%	-	-	Divestment is in progress

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

^{**} Sales volume represent average volume for 100% of the project during 9M2022 except for Algeria 433a & 416b (production volume)

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Projects Details | Rest of the World (as of September 2022)



	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%	-	-	•	Divestment is in progress
8	Mexico block 12 (2.4)	JV	Exploration	PTTEP PC Carigali Mexico Ophir Mexico	20% 60% 20%	-	-	•	Evaluating the remaining petroleum potential
9	Mexico block 29 (2.4)	JV	Exploration	PTTEP Repsol Mexico PC Carigali Mexico Wintershal DEA	16.67% 30% 28.33% 25%	-	-	•	Pre-development study in progress
10	Block 17/06 (Angola)	JV	Pre-development	PTTEP TotalEnergies Sonangol SSI Acrep Falcon Oil	2.5% 30% 30% 27.5% 5%	-	-	•	Obtained FID Approval of Begonia Oil Field Development Project on Jul 28, 2022, and production extension period for 20 years until 2045
11	Dunga (Kazakhstan)	JV	Production	PTTEP TotalEnergies OOCEP	20% 60% 20%	2	12	•	Normal operations

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

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

Projects Details | Mid-stream (as of September 2022)



	Project Name	Status	Phase	Participating I	nterest* (%)	Sales Vol Gas (MMSCFD)	Sales Vol Liquid (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%		-	Normal Operations
2	ADNOC Gas Processing (AGP) [UAE]	JV	Production	PTTEP ADNOC Shell TotalEnergies	2% 68% 15% 15%	-	-	Normal Operations

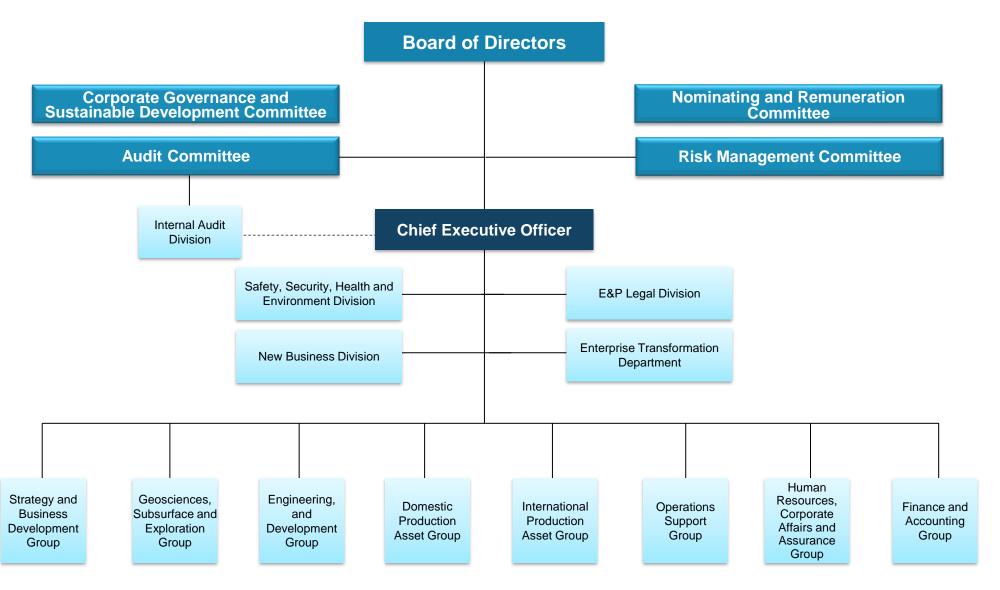
Note: * PTTEP denotes respective PTTEP subsidiaries participating in the project

^{**} Sales volume represent average volume for 100% of the project during 9M2022

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

Organization Chart





Ratio and Formula



Oll and Oas	Reserves Replacement Ratio	5-Yr Additional Proved Reserves / 5-Yr Production Volume					
Oil and Gas	Reserves Life Index (Year)	Proved Reserves / Production Volume					
Reserves	Success Ratio	Number of wells with petroleum discovery / Total number of exploration and appraisal wells					
	Sales Revenue	Sales + Revenue from pipeline transportation					
	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					
Profitability	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 Assets (ROA)	Trailing-12-month net income / Average assets between the beginning and the end of the 12-month period					
	Return on Equity (ROE)	Trailing-12-month net income / Average shareholders' equity between the beginning and the end of the 12-month period					
	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					
Loverege	Net Debt to Equity	Net debt / Shareholders' equity					
Leverage	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	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	1.1364	0.159	1	42	-					
US Gallons	0.00325	0.0038	0.0235	1	-					
Barrels/day	-	-	-	-	49.8					

Natural Gas and LNG	To Convert								
	Billion cubic metres NG	Billion cubit feet NG	Million tonnes oil equivalent	Million tonnes LNG	Trillion BTU	MBOE			
From	Multiply by								
1 billion cubic metres NG	1	35.315	0.86	0.735	34.121	5.883			
1 billion cubic feet NG	0.028	1	0.024	0.021	0.966	0.167			
1 million tonnes oil equivalent	1.163	41.071	1	0.855	39.683	6.842			
1 million 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 MBOE	0.17	6.003	0.146	0.125	58	1			