

Investor Presentation SET-DBSV: ESG 2022 Virtual Conference 25 May 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.



Company Introduction



PTTEP Overview | E&P Flagship of PTT Group



Operating Framework

PTTEP Sustainable Organization









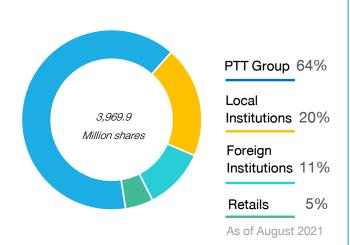








Shareholding Structure



Stock Quote Market Capitalization Sales Revenue Cash Cost

PTTEP

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

Business Strategy

HPO & Thrive in Lower Carbon Future

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

Sustain Business Integrity Excellence

- **Smart Assurance**
- GRC in Common Sense

Optimize Resources and Create Shared Values

- Circular Model for E&P
- Ocean for Life















Business Update





Business Update | E&P





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



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 LLB - FID expected in 2023



Myanmar

Yadana

Become new operator with 37% interest by 20 July 2022



Algeria

HBR-Phase I

1st Oil expected in Q2/2022 at 4 KBOED



UAE

Sharjah Onshore Area C

25% stake acquisition completed 1 March 2022

On progress of seismic activity



Mozambique

MZA 1

1st Cargo expected in 2025 awaiting local security situation



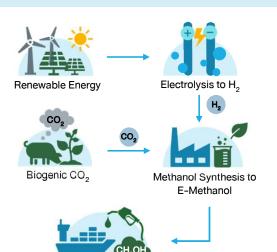
Business Update | Beyond E&P



Green Methanol

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

What is Green Methanol?

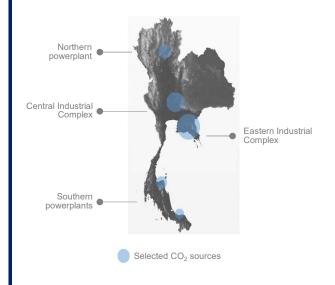


Marine Transportation

CCS

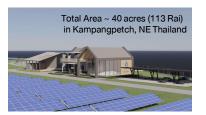
12 January 2022 : Established Thailand CCS Project Task Force to develop CCS initiatives

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



Solar Farm

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



ARV

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



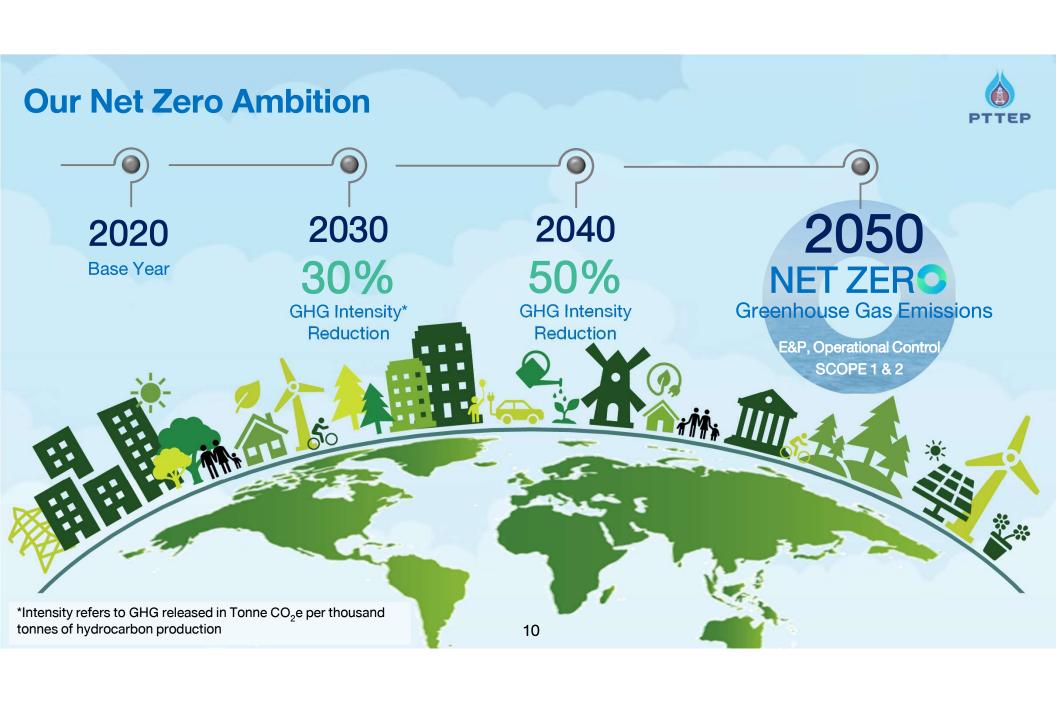


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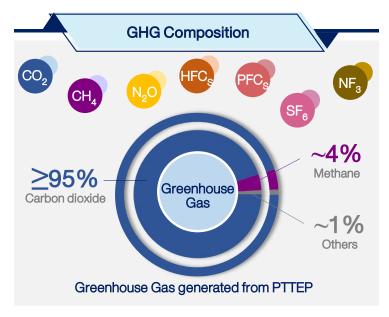
ESG Update



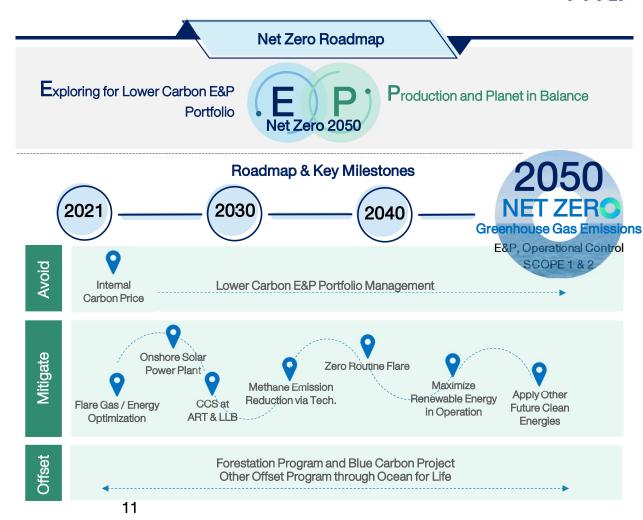


Pathway to Net Zero GHG Emissions







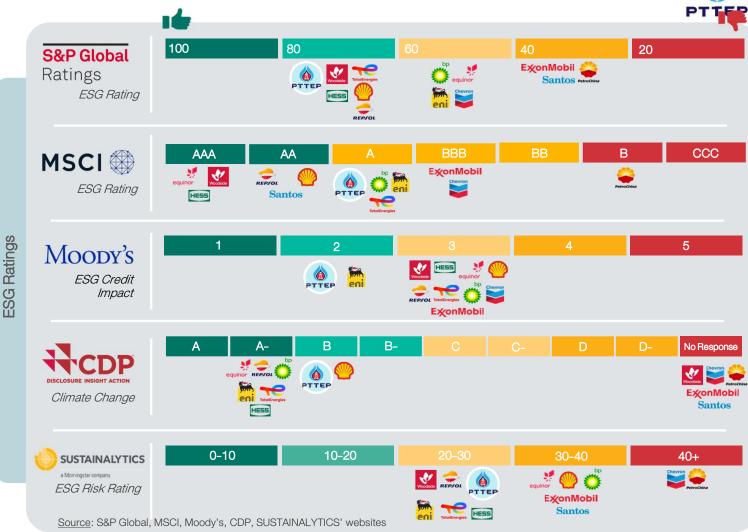


SD & ESG | Disclosure and Ratings









As of December 2021



Financial Results & Guidance



Results | Profit and Loss





Results | Sales Volume and Product Price







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

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

ASP: Average Selling Price

Results | Unit Cost





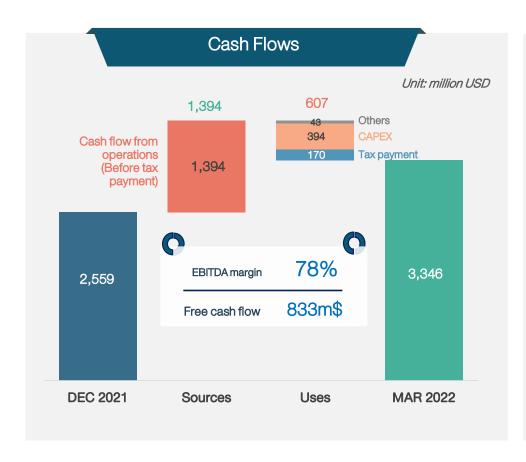
Note: * Exclude Exploration assets write-off in Brazil for Q1 21

All Unit Cost shown above exclude costs related to new business

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

Results | Cash Flows and Financial Position





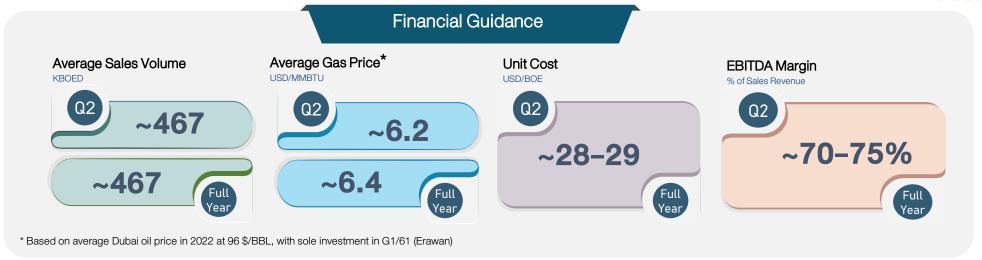


* Include Short-term investment
Net of adjustment for the effect of exchange rate changes on cash and cash equivalents

Note:

Results | Financial Guidance and Debt Profile





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	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

Credit Ratings International National Moody's BBB stand-alone rating Baa2 stand-alone rating TRIS **Fitch**Ratings Baa1 Stable BBB stand-alone rating

Note: Debt excludes Hybrid bonds





Supplementary information

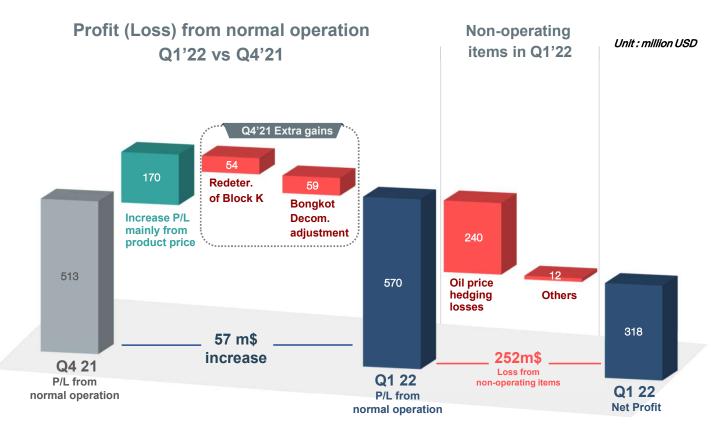
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Finance | Q1/22 Highlights









Finance | Profit and Loss Statement



Unit: million USD

						Orin. Trininor COD
	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:

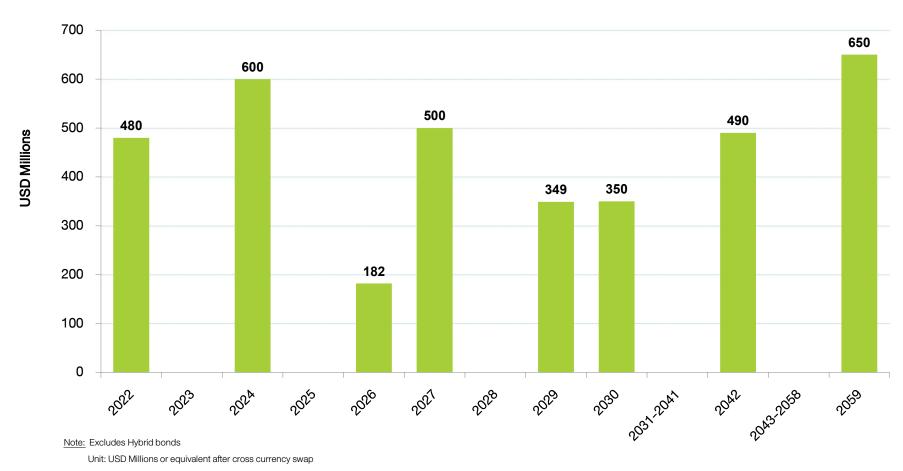
(2) Exclude Oman Block 61 deemed sales volume from tax payment by government

⁽¹⁾ Include Oman Block 61 deemed sales revenues 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

Finance | Debt Maturity Profile

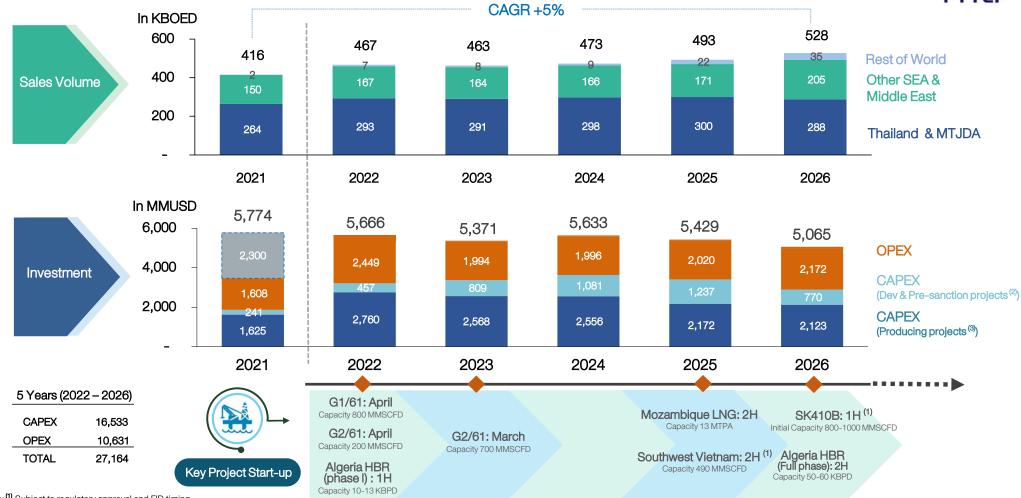




As of March 2022

Finance | 5-year Investment Plan





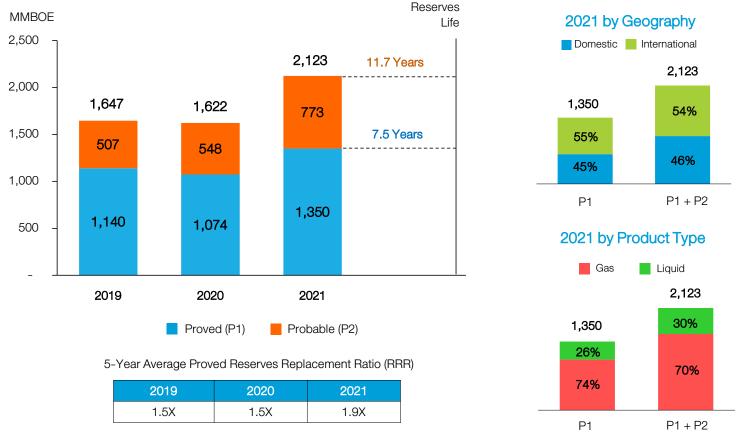
Note: (1) Subject to regulatory approval and FID timing

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

⁽⁹⁾ Including exploration and appraisal in all projects and head office CAPEX, and new businesses

Petroleum 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

SD & ESG | Progress Q1/2022





GHG Management

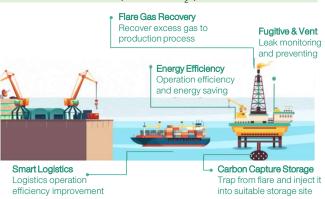
GHG Intensity Reduction Target **25%** By 2030 (2012 base year)

Net Zero By 2050

♦PROGRESS

Reduction of GHG Emission Intensity

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



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

♦PROGRESS

>50% of Main Structure Reuse by 2030

Waste to Landfill 2020 Zero Hazardous waste to landfill waste to landfill waste to landfill Zero 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)

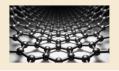




Oil sludge conversion to Graphene: Complete prototype unit fabrication







Ocean for Life



Net Positive Impact

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

≥50%

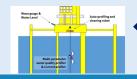
Increase in Local community income vs baseline by 2030

♦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



nsithanmarat

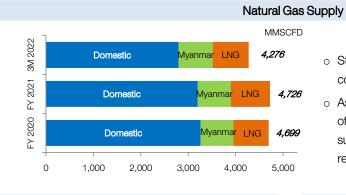
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Established 15 Conservation Areas & 7.8 km² Fish Home Areas

Thailand | Market Update

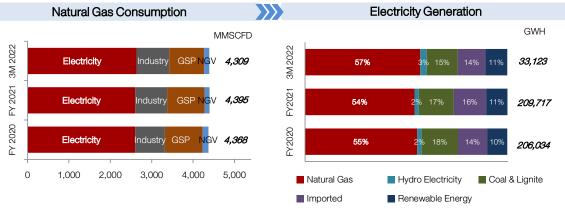


Thailand Energy Overview



Source: Energy Policy and Planning Office (EPPO)

- 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.



Exchange Rate Movement



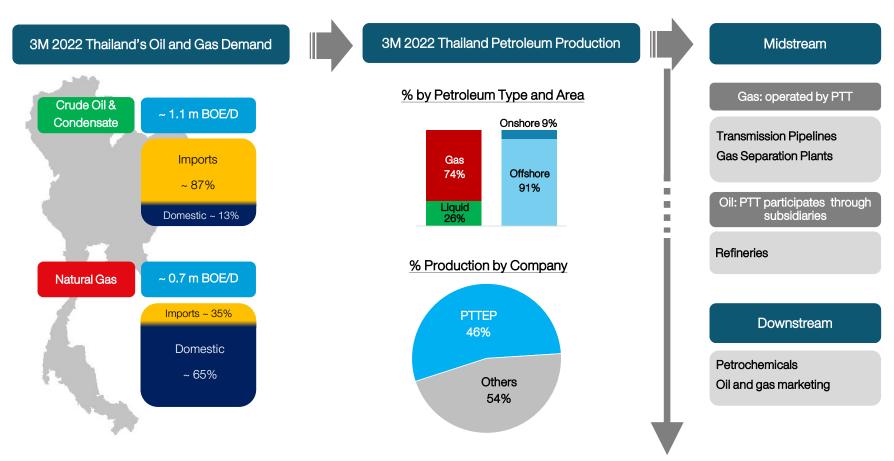
Consensus on the exchange rate mostly depends on

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

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

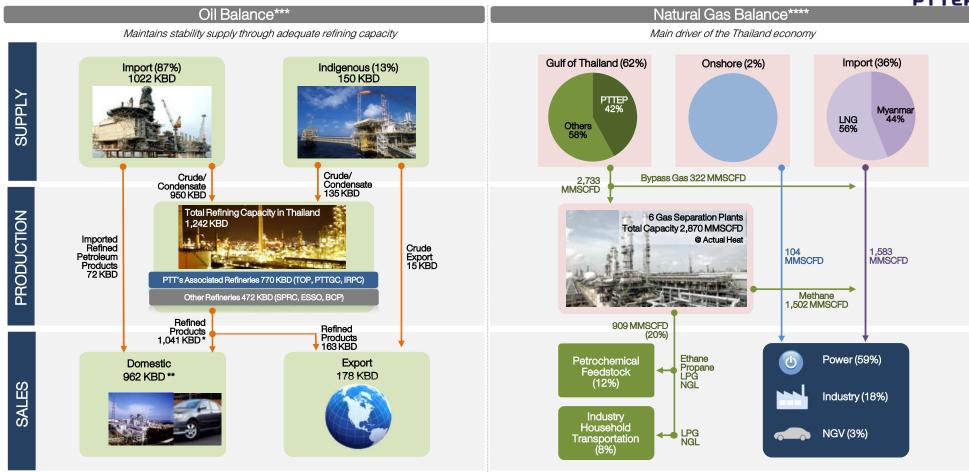
Thailand | Energy Value Chain





Thailand | Oil and Gas Balance





Source: PTT

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

^{**} 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

Production

Three producing offshore gas fields supplying gas to both Thailand and Myanmar: Zawtika, Yadana and Yetagun

One field under development plan – M3 (100% WI)

Zawtika (80% WI) - PTTEP is operator

Yadana (25.5% WI) – PTTEP to be operator and stake will increase to 37.1% in July 2022

Yetagun (19.3% WI) – Approaching the end of field. Submitted notice to withdraw.

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% WII)

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

Contract 4 (60% WI)

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

G1/61 (60% WI)

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

G2/61 (100% WI)

GBS transition completed at production rate of 200 MMSCFD



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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





Projects | Middle East



LIAF

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)

Shariah Onshore Area C

- High gas & condensate potential with the possibility of integrating with surrounding fields
- Located in the central part of Sharjah Emirate, United Arab Emirates
- Operated by Eni Abu Dhabi B.V. (50% interest)

ADNOC Gas Processing (AGP)

- One of the largest gas processing complexes in the world (total capacity of 8 BCFD)
 - JV: 3 plants with capacity of 1.2 BCFD ADNOC: 2 plants with capacity of 6.9 BCFD
- Essential to Abu Dhabi and UAE's economy
- Sizeable volumes of Propane, Butane and Naphtha offtake
- Operated by ADNOC (68% interest)



Abu Dhabi offshore 3 Shariah AGP Onshore Area C Abu Dhabi PDO Offshore 1 U.A.E. (Block 6) OLNG Abu Dhabi **OMAN** Block 61 Offshore 2 Mukhaiza (Block 53) **Oman Onshor** block 12 *Block awarded in 2019 **Block awarded in 2020 Production phase Exploration phase

Oman

PDO (Block 6)

- Largest asset covering around 1/3 of the country
- Long-life asset, produced only 15% of reserves in-place
- Average oil production volume of 660 KBPD for 3M2022
- Operated by Petroleum Development of Oman (Joint Operating Company)

Oman Onshore Block 12

- Located onshore central part of the Sultanate of Oman
- Signed agreement with Oman's Ministry of Oil and Gas (MOG) for exploration and production rights in February 2020
- Operated by Total E&P Oman Block 12 B.V. (80% interest)

Mukhaizna (Block 53)

- Largest single onshore producing field in Oman
- Average oil production volume of 94 KBPD for 3M2022
- Operated by Occidental Petroleum (47% interest)

Oman Block 61

- Largest tight gas development in Middle East
- Gas and condensate production capacity of 1,500 MMSCFD and 69,000 BPD respectively
- Operated by BP Exploration (Epsilon) Limited (40% interest)

Oman LNG

- The only LNG facility in Oman
- Processing capacity 10.4 MTPA
- Contracted LNG sales to international buyers: Japan and South Korea
- Government of Oman 51% (Operator)

Note: ADNOC: Abu Dhabi National Oil Company

Midstream

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

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

Brazil

MOZAMBIQUE

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



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Projects Details | Thailand



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

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



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

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

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

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

Projects Details | Thailand



	Project Name	Status	Phase	Participating Inter	Participating Interest* (%)		Sales Vol Liquid (KBPD)	Latest Status
15	MTJDA	JOC	Production	PTTEP Petronas Carigali	50% 50%	260	10	Facility Readiness for Additional Gas to DP1 (Thailand) for 30-50 MMSCFD
16	G9/43	OP	Exploration	PTTEP	100%	-	-	Activity suspended
17	G1/61 (Erawan)	OP	Exploration	PTTEP Mubadala	60% 40%	-	-	 Successful transition to become operator on 24 April 2022. Initial production rate at 376 MMSCFD
18	G2/61 (Bongkot)	OP	Exploration	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 I	nterest* (%)	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 **	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 **	 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 **	-	Normal operations
4	Malaysia – Other projects	OP	Exploration	PTTEP	42.5 - 80% (varied by permits)	-	-	SK410B: Plan to drill 1 exploration well and expected FID in 2023 for LLB SK417, SK405B, SK438: Planning and preparing for the drilling of appraisal and exploration wells in 2022 exploration campaign SB412: Preparing for exploration activities
5	Yadana [Myanmar]	JV	Production	PTTEP TotalEnergies Chevron MOGE	25.5% 31.24% 28.26% 15%	732	-	 Appointed to be 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	-	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	-	 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 I	nterest* (%)	Sales Vol Gas (MMSCFD)	Sales Vol Liquid (KBPD)	Latest Status
8	M3 [Myanmar]	OP	Exploration	PTTEP	100%	-	-	Waiting for approval of PSC Supplementary
9	MD-7 [Myanmar]	OP	Exploration	PTTEP TotalEnergies	50% 50%	-	-	Termination process in progress
10	9-2 [Vietnam]	JOC	Production	PTTEP Vietnam Oil and Gas Group Pharos Energy	25% 50% 25%	12	4	 Maintain production level Procurement for drilling campaign of 1 development well
11	16-1 [Vietnam]	JOC	Production	PTTEP Vietnam Oil and Gas Group Pharos Energy OPECO	28.5% 41% 28.5% 2%	2	13	 Maintain production level Procurement for drilling campaign of 2 development wells
12	B & 48/95 [Vietnam]	JV	Exploration	PTTEP Vietnam Oil and Gas Group MOECO	8.5% 65.88% 25.62%	-	-	 Monitoring Power Plants progress Negotiation process on commercial terms in order to push forward the Final Investment Decision (FID) The first production target at the end of 2025
13	52/97 [Vietnam]	JV	Exploration	PTTEP Vietnam Oil and Gas Group MOECO	7% 73.4% 19.6%	-	-	 Monitoring Power Plants progress Negotiation process on commercial terms in order to push forward the Final Investment Decision (FID) The first production target at the end of 2025
14	Natuna Sea A [Indonesia]	JV	Production	PTTEP Premier Oil KUFPEC Petronas Pertamina	11.5% 28.67% 33.33% 15% 11.5%	199	1	Maintain production level

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

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Projects Details | Middle East



	Project Name	Status	Phase	Participating Interes	Participating Interest* (%)		Sales Vol Liquid (KBPD)	Latest Status
1	Abu Dhabi Offshore 1 [UAE]	JV	Exploration	PTTEP Eni Abu Dhabi	30% 70%	-	-	 Being evaluated for petroleum potential to support future exploration, including G&G report
2	Abu Dhabi Offshore 2 [UAE]	JV	Exploration	PTTEP Eni Abu Dhabi	30% 70%	-	-	Continued drilling the first exploration well
3	Abu Dhabi Offshore 3 [UAE]	JV	Exploration	PTTEP Eni Abu Dhabi	30% 70%	-	-	G&G study is on-going
4	Sharjah Onshore Area C [UAE]	JV	Exploration	PTTEP Eni Abu Dhabi SNOC	25% 50% 25%	-	-	 Completed the acquisition of 25% interest on 1 March 2022 Seismic activity is in progress
5	PDO Block 6 [Oman]	JOC	Production	PTTEP Government of Oman Shell TotalEnergies	2% 60% 34% 4%	-	660 **	Normal operations
6	Mukhaizna [Oman]	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 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	Block 12 [Oman]	JV	Exploration	PTTEP Total E&P Oman Block 12 B.V.	20% 80%	-	-	 3D seismic reprocessing (original 3D) in progress 3D seismic acquisition (new 3D) is in process for tendering
8	Block 61 [Oman]	JV	Production	PTTEP BP Makarim Gas Development LLC PC Oman Ventures Limited (PETRONAS)	20% 40% 30%	1,471	61	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 Int	erest* (%)	Sales Vol Gas (MMSCFD)	Sales Vol Liquid (KBPD)	Latest Status
1	PTTEP Australasia [Australia]	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 [Mozambique]	JV	Development	PTTEP TotalEnergies, Mitsui, ENH, OVL OVRL & Oil India , Bharat	8.5% 26.5%,20% 15%, 10% 10%, 10%	-	-	 First Cargo is expected by 2025, subject to local security situation 1st Debt drawdown in project Finance Force Majeure was declared by the operator for safety reason due to the security incident in Palma. Plan to resume construction activities after security and safety restored
3	Bir Seba 433a & 416b [Algeria]	JOC	Production	PTTEP PetroVietnam Sonatrach	35% 40% 25%	-	17 **	 Drilling of 2 development wells are on-going in Q1 2022 Target to tie-in and produce 2 new wells in 2022 Existing wells intervention Production respect OPEC+ policy
4	Hassi Bir Rekaiz [Algeria]	OP	Development	PTTEP Sonatrach	49% 51%	-	-	 Continue drilling development wells Expected 1st oil production for the initial phase of around 10,000-13,000 BPD in Q2 2022 Groupement (JOC) establishment in Q2 2022
5	Mariana Oil Sands [Canada]	OP	Exploration	PTTEP	100%	-	-	 The Project is underway for reclamation activities according to government's conditions
6	Barreirinhas AP1 [Brazil]	JV	Exploration	PTTEP Shell Brasil Mitsui E&P Brasil	25% 65% 10%	-	-	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 Inte	Participating Interest* (%)		Sales Vol Liquid (KBPD)	Latest Status
7	BM-ES-23 [Brazil]	JV	Exploration	PTTEP Petrobras INPEX	20% 65% 15%	-	-	Evaluating petroleum potential for development consideration
8	Block 12 (2.4) [Mexico]	JV	Exploration	PTTEP PC Carigali Mexico Ophir Mexico	20% 60% 20%	-	-	Evaluating petroleum potential for development consideration
9	Block 29 (2.4) [Mexico]	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%	-	-	 FID plan in the mid 2022 for the eastern area Finalized Internal committees and Stakeholders alignment leading to Begonia FID Launched Forsythia and Gardenia development study on 18 January 2022
11	Dunga [Kazakhstan]	JV	Production	PTTEP TotalEnergies OOCEP	20% 60% 20%	2	11	 Procurement process Compression package and Gathering Lines Engineering of Separation Upgrade, Flare package and facilities Facilities modification works

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

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

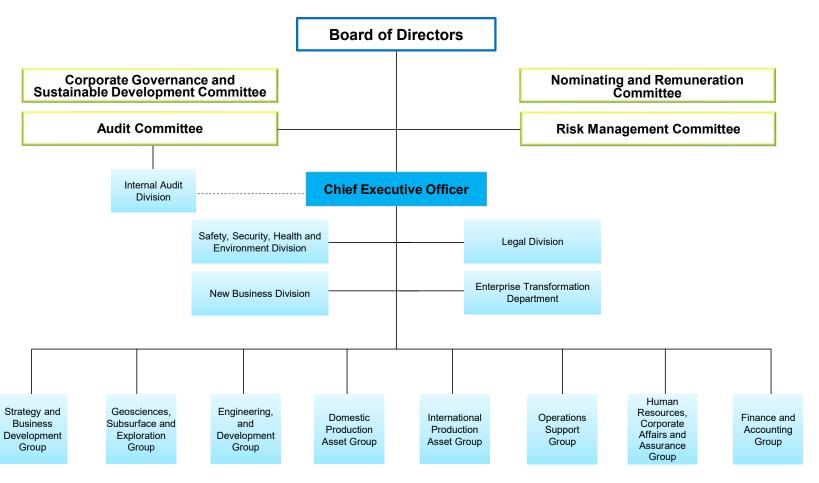
Note: * PTTEP denotes respective PTTEP subsidiaries participating in the project

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

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

Organization Chart





Ratio and Formula



Lifting Cost	(Operating Exp. – Transportation Cost – Stock Variation – Other expenses not related to					
(\$/BOE)	lifting) / Production Volume					
Cash Cost	(Operating Exp. + Exploration Exp. + G&A + Royalties + Finance Cost) / Sales Volume					
(\$/BOE)						
Unit Cost	(Operating Exp. + Exploration Exp. + G&A + Royalties + Finance Cost + DD&A) / Sales					
(\$/BOE)	Volume					
Reserves	5-Yr Additional Proved Reserves / 5-Yr Production Volume					
Replacement Ratio						
Reserves Life Index	Proved Reserves / Production Volume					
(Year)						
Success Ratio	Number of wells with petroleum discovery / Total number of exploration and appraisal wells					
Sales Revenue	Sales + Revenue from pipeline transportation					
EBITDA	(Sales + Revenue from pipeline transportation) - (Operating expenses + Exploration expenses					
	+ Administrative expenses + Petroleum royalties and remuneration + Management's					
	remuneration)					
EBITDA Margin	EBITDA / Sales Revenue					
Return on Equity	Trailing-12-month net income / Average shareholders' equity between the beginning and the					
	end of the 12-month period					
Return on Capital	(Trailing-12-month net income + Trailing-12-month Interest Expenses & Amortization of					
Employed	Bond Issuing Cost) / (Average shareholders' equity and average total debt between the					
	beginning and the end of the 12-month period)					
Simple Effective	Income tax expenses / Income before income taxes					
Tax Rate						
Total debt	Short-term loans from financial institution + Current portion of long-term debts + Bonds +					
	Long-term loans from financial institution					

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

	Tonnes (metric)	Kilolitres	Barrels	US gallons	Tonnes/year			
-rom	Multiply by							
Fonnes (metric)	1	1.165	7.33	307.86	8			
Kilolitres	0.8581	1	6.2898	264.17	*			
Barrels	0.1364	0.159	1	42				
JS gallons	0.00325	0.0038	0.0238	1	2			
Barrels/day				-	49.8			
Natural gas and LNG	To convert							
	Dillion							
	Billion cubic	Billion cubic feet NG	Million tonnes oil	Million tonnes	Trillion BTU	MBOE		
	Metres NG		equivalent	LNG				
From			Multiply by					
1 billion cubic metres NG	1.000	35.315	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		