

**Attachment: Supplemental Information on Petroleum Exploration and Production Activities (Unaudited)****(A) PTTEP and Our Subsidiaries' Petroleum Reserves Report as of December 31, 2023**

The total Proved Reserves of PTTEP and our subsidiaries as of December 31, 2023 are shown in the attached table. The Proved Reserves are reviewed annually by Company's earth scientists and reservoir engineers to ensure rigorous professional standards. The Proved Reserves are reported on a gross basis, which includes the Company's net working interest and related host country's interest.

Furthermore, in order to improve efficiency, check and balance of the reserves estimation, reporting and disclosure, the company maintains a Reserves Committee which has the following roles and responsibilities:

- Review and endorse the Company's Annual Reserves
- Review and approve Major Changes of Reserves, and Reserves for Newly-Acquired Project
- Ensure that all activities that related to reserves estimation and disclosure of reserves information conform to regulatory and legal requirements as well as to corporate and international standards
- Approve Annual Reserves Audit Plan, appoint Reserves Auditor, as well as approve Reserves Audit Report to ensure compliance with Company's framework and continual process improvement

As of December 31, 2023, the total amount of Proved Reserves of PTTEP Group's projects<sup>(1)</sup> was 353 million stock-tank barrels (MMSTB) of crude oil and condensate<sup>(2)</sup> and 6,620 billion standard cubic feet (BSCF) of natural gas or 1,083 million barrels of oil equivalent (MMBOE). The total amount of Proved Reserves in terms of oil equivalent was therefore 1,436 MMBOE.

In 2023, the total production of PTTEP Group<sup>(1)</sup> was 233 MMBOE, consisting of 60 MMSTB of crude oil and condensate<sup>(2)</sup> and 1,073 BSCF (173 MMBOE) of natural gas. This was equivalent to the average production rate of 638,319 barrels of oil equivalent per day (BOED) which was approximately 53,075 BOED or 9% increase from the previous year. The increase in production mainly comes from G1/61 production ramp-up to 400 MMSCFD since June 28, 2023. In addition, Block 16 and 17 of Bongkot Concession were expired on 7 March 2023 and has become G2/61 Production Sharing Contract (PSC) since 8 March 2023.

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<sup>(1)</sup> Include APICO Joint Venture project

<sup>(2)</sup> Include NGL

PTT Exploration and Production Public Company Limited  
Crude Oil and Condensate and Natural Gas Proved Reserves<sup>(1)</sup>

	Crude Oil and Condensate <sup>(2)</sup>			Natural Gas			Barrel of Oil Equivalent		
	(Million Barrels)			(Billion Cubic Feet)			(Million Barrels)		
	Domestic	Foreign	Total	Domestic	Foreign	Total	Domestic	Foreign	Total
Company's share of proved reserves of consolidated companies									
As of December 31, 2021	115	242	357	2,944	2,969	5,913	595	745	1,340
1) Revision of previous estimates	13	6	19	173	208	381	41	33	74
2) Improved recovery	1	0	1	1	-	1	1	0	1
3) Extensions and discoveries	32	9	41	859	171	1,030	174	37	211
4) Purchases/Sales of Petroleum in place	3	(0)	3	80	35	115	16	4	20
5) Production	(31)	(25)	(56)	(566)	(402)	(968)	(123)	(89)	(212)
As of December 31, 2022	133	232	365	3,491	2,981	6,472	704	730	1,434
Company's share of proved reserves of consolidated companies									
As of December 31, 2022	133	232	365	3,491	2,981	6,472	704	730	1,434
1) Revision of previous estimates	32	1	33	617	(1)	616	123	1	124
2) Improved recovery	3	0	3	2	-	2	3	0	3
3) Extensions and discoveries	10	3	13	273	278	551	55	46	101
4) Purchases/Sales of Petroleum in place	-	(1)	(1)	-	-	-	-	(1)	(1)
5) Production	(35)	(25)	(60)	(686)	(379)	(1,065)	(146)	(86)	(232)
As of December 31, 2023	143	210	353	3,697	2,879	6,576	739	690	1,429

<sup>(1)</sup> The Proved Reserves are reported on a gross basis which includes the Company's net working interest and the related host country's interest.

<sup>(2)</sup> Include Natural Gas Liquids (NGL)

PTT Exploration and Production Public Company Limited  
Crude Oil and Condensate and Natural Gas Proved Reserves<sup>(1)</sup>

	Crude Oil and Condensate <sup>(2)</sup>			Natural Gas			Barrel of Oil Equivalent		
	(Million Barrels)			(Billion Cubic Feet)			(Million Barrels)		
	Domestic	Foreign	Total	Domestic	Foreign	Total	Domestic	Foreign	Total
Company's share of proved reserves of equity companies <sup>(3)</sup>									
As of December 31, 2021	0	-	0	60	-	60	10	-	10
1) Revision of previous estimates	-	-	-	-	-	-	0	-	0
2) Improved recovery	-	-	-	-	-	-	-	-	-
3) Extensions and discoveries	-	-	-	-	-	-	-	-	-
4) Purchases/Sales of Petroleum in place	-	-	-	-	-	-	-	-	-
5) Production	(0)	-	(0)	(9)	-	(9)	(2)	-	(2)
As of December 31, 2022	0	-	0	51	-	51	8	-	8
Company's share of proved reserves of equity companies <sup>(3)</sup>									
As of December 31, 2022	0	-	0	51	-	51	8	-	8
1) Revision of previous estimates	(0)	-	(0)	1	-	1	0	-	0
2) Improved recovery	-	-	-	-	-	-	-	-	-
3) Extensions and discoveries	-	-	-	-	-	-	-	-	-
4) Purchases/Sales of Petroleum in place	-	-	-	-	-	-	-	-	-
5) Production	(0)	-	(0)	(8)	-	(8)	(1)	-	(1)
As of December 31, 2023	0	-	0	44	-	44	7	-	7
<b>Total Proved Reserves</b>	<b>143</b>	<b>210</b>	<b>353</b>	<b>3,741</b>	<b>2,879</b>	<b>6,620</b>	<b>746</b>	<b>690</b>	<b>1,436</b>
As of December 31, 2023									

<sup>(1)</sup> The Proved Reserves are reported on a gross basis which includes the Company's net working interest and the related host country's interest.

<sup>(2)</sup> Include Natural Gas Liquids (NGL)

<sup>(3)</sup> Reserves from APICO Joint Venture project

(B) Capitalized Costs Relating to Oil and Gas Producing Activities

Capitalized costs represent cumulative expenditures for proved and unproved properties together with related accumulated depreciation, depletion, amortization, and allowance for impairment loss on assets.

Proved properties include exploration wells, development wells, transportation pipelines, producing facilities, right-of-use assets and decommissioning costs. Unproved properties represent amounts associated with capitalized cost of projects which have not yet found proved reserves.

(Unit: Million US Dollar)	2023	2022
Proved properties	36,238	37,248
Unproved properties	2,756	4,312
Gross capitalized costs	38,994	41,560
Accumulated depreciation, depletion, amortization, and allowance for impairment	(22,676)	(25,779)
Net capitalized costs	16,318	15,781

(C) Costs Incurred in Oil and Gas Property Acquisition, Exploration, and Development Activities

Costs incurred in oil and gas property acquisition, exploration and development activities represent amounts both capitalized and charged to expense during the year.

Property acquisition costs include costs to purchase proved and unproved properties.

Exploration costs include geological and geophysical expenses, exploratory drilling cost as well as reservation fee for exploration blocks.

Development costs include costs associated with drilling and equipping development wells, improved recovery systems, facilities for extraction, treating, gathering and storage, producing facilities for existing developed reserves, and costs associated with transportation pipeline.

(Unit: Million US Dollar)	2023			2022		
	Domestic	Foreign	Total	Domestic	Foreign	Total
Acquisition of properties						
- Proved	8	-	8	5	-	5
- Unproved	6	-	6	-	12	12
Exploration costs	59	150	209	13	107	120
Development costs	1,694	605	2,299	1,374	718	2,092
Total	1,767	755	2,522	1,392	837	2,229

(D) Results of Operations for Producing Activities

Results of operations from oil and gas producing activities for the year 2023 and 2022 are shown in the following table.

Operating expenses include lifting costs incurred to operate and maintain productive wells and related equipment.

Exploration expenses consist of geological and geophysical costs, and exploratory well including project cost write off expenses.

Administrative expenses are expenses directly related to oil and gas producing activities.

Depreciation, depletion, and amortization expenses relate to capitalized costs incurred in acquisition, exploration and development activities, transportation pipeline, including amortized decommissioning costs.

Other expenses (income) mainly include impairment loss on assets and goodwill, foreign exchange gains and losses directly related to oil and gas producing activities, gain on disposal of participating interests and other income.

Income tax expenses are based on the results of operations from petroleum producing activities.

General corporate overhead and finance costs are excluded from the results of operations for petroleum producing activities.

(Unit: Million US Dollar)	2023			2022		
	Domestic	Foreign	Total	Domestic	Foreign	Total
<b>Revenues</b>						
Revenues from sales – Related parties	4,890	1,869	6,759	5,369	2,031	7,400
Revenues from sales – Third parties	302	1,866	2,168	283	2,021	2,304
<b>Total revenues from sales</b>	<b>5,192</b>	<b>3,735</b>	<b>8,927</b>	<b>5,652</b>	<b>4,052</b>	<b>9,704</b>
<b>Expenses</b>						
Operating expenses	802	757	1,559	674	788	1,462
Exploration expenses	5	89	94	4	68	72
Administrative expenses	71	94	165	63	257	320
Petroleum royalties	397	53	450	596	92	688
Depreciation, depletion and amortization	1,412	873	2,285	1,399	920	2,319
Other (income) / expenses	(97)	3	(94)	(56)	209	153
<b>Total expenses</b>	<b>2,590</b>	<b>1,869</b>	<b>4,459</b>	<b>2,680</b>	<b>2,334</b>	<b>5,014</b>
<b>Results before income taxes</b>	<b>2,602</b>	<b>1,866</b>	<b>4,468</b>	<b>2,972</b>	<b>1,718</b>	<b>4,690</b>
Income tax expenses	866	945	1,811	1,064	1,056	2,120
<b>Net results of operations</b>	<b>1,736</b>	<b>921</b>	<b>2,657</b>	<b>1,908</b>	<b>662</b>	<b>2,570</b>

(E) **Standardized Measure of Discounted Future Net Cash Flows (SMDCF) Relating to the Proved Oil and Gas Reserves**

The standardized measure of discounted future net cash flows related to the above proved oil and gas reserves, is computed by applying 12-month average prices\* (with consideration of price changes only to the extent provided by contractual arrangements), to the estimated future production of year-end remaining proved oil and gas reserves less estimated future expenditures (based on year-end costs) to be incurred in developing and producing the proved reserves.

Future income taxes are calculated by applying the appropriate year-end statutory tax rates to the future pre-tax net cash flows and deducted by applicable tax deductions or tax credits.

Net Cash flows are discounted using a rate of 10% per year to reflect the estimated timing of the future cash flows.

The estimation of discounted future net cash flow shown below is not intended to represent the fair value of oil and gas properties. The fair value should take into account of several factors, such as probable and possible reserves which may turn into proved reserves in the future, anticipated future oil and gas prices, interest rates, changes in development and production costs and risks associated with future production. Therefore, the fair value will subject to the view and perception of analyst.

\* Twelve-month average prices are calculated as the unweighted arithmetic average of the first-day-of-the-month price for each month.

## Standardized Measure of Discounted Future Net Cash Flows Relating to Prove Oil and Gas Reserves

(Unit: Million US Dollar)	Domestic		Foreign		Total	
	2023	2022	2023	2022	2023	2022
Future cash inflows	19,515	20,444	27,091	31,528	46,606	51,972
Future production costs	(7,012)	(6,713)	(6,128)	(5,929)	(13,140)	(12,642)
Future development costs	(6,165)	(6,530)	(4,588)	(3,741)	(10,753)	(10,271)
Future income tax expenses	(852)	(1,128)	(4,579)	(6,660)	(5,431)	(7,788)
<b>Future net cash flows</b>	<b>5,486</b>	<b>6,073</b>	<b>11,796</b>	<b>15,198</b>	<b>17,282</b>	<b>21,271</b>
10% annual discount	(1,321)	(1,683)	(6,070)	(7,585)	(7,391)	(9,268)
<b>Standardized measure of discounted future net cash flows (SMDCF) of consolidated companies</b>	<b>4,165</b>	<b>4,390</b>	<b>5,726</b>	<b>7,613</b>	<b>9,891</b>	<b>12,003</b>
SMDCF of equity companies <sup>(1)</sup>	173	211	-	-	173	211
<b>Total SMDCF</b>	<b>4,338</b>	<b>4,601</b>	<b>5,726</b>	<b>7,613</b>	<b>10,064</b>	<b>12,214</b>

## Changes in Standardized Measure of Discounted Future Net Cash Flows Relating to Proved Oil and Gas Reserves

(Unit: Million US Dollar)	2023	2022
<b>Present value at beginning of year of consolidated companies</b>	<b>12,003</b>	<b>8,084</b>
Sales and transfers of oil and gas produced, net of production costs during period	(7,087)	(7,334)
Development costs incurred during the period	2,541	2,920
Net changes in prices and production costs	(4,497)	12,466
Net changes in development costs	(208)	(1,455)
Extensions, discoveries and improved recovery	1,661	2,132
Revisions of previous quantity estimates	1,243	1,354
Purchases / sales of petroleum in place	0	253
Accretions of discount	1,878	(3,347)
Net changes in income taxes	2,357	(3,070)
<b>Present value at the year end of consolidated companies</b>	<b>9,891</b>	<b>12,003</b>
Present value at the year end of equity company <sup>(1)</sup>	173	211
<b>Total Present value at the year end</b>	<b>10,064</b>	<b>12,214</b>

<sup>(1)</sup> included investment in APICO Joint Venture project

(F) Other Information

Producing Oil and Gas Wells

The numbers of producing wells<sup>(1)</sup> as of December 31, 2023 were as follows:

	Oil	Gas
Thailand	1,663	2,565
Overseas:		
Southeast Asia	152	263
Others	15,182	148
Total	16,997	2,976

Definition of producing wells:

- Producing wells: wells which are either currently producing or temporarily closed but exclude water disposal wells or wells which have been plugged & abandoned.
- Producing Oil wells: wells which primarily produce oil, with or without associated gas.
- Producing Gas wells: wells which primarily produce natural gas, with or without associated liquids.

Drilling in Progress of Oil and Gas Wells

The numbers of wells in progress as at December 31, 2023 were as follows:

	Number of Well <sup>(1)</sup>
<u>Exploratory</u>	
Thailand	1
Overseas:	
Southeast Asia	1
Others	1
Total	3
<u>Development</u>	
Thailand	39
Overseas:	
Southeast Asia	8
Others	2
Total	49

<sup>(1)</sup> Total number of wells reported at 100% (Gross), not only PTTEP's participating interest



Oil and Gas Wells<sup>(1)</sup> Drilled Annually in 2023

	Technical Success	Dry Well
<u>Exploratory</u>		
Thailand	9	1
Overseas:		
Southeast Asia	8	-
Others	1	-
Total	<u>18</u>	<u>1</u>
	<u>Productive Well</u>	<u>Dry Well</u>
<u>Development</u>		
Thailand	583	4
Overseas:		
Southeast Asia	36	-
Others	28	-
Total	<u>647</u>	<u>4</u>

<sup>(1)</sup> Total number of wells reported at 100% (Gross), not only PTTEP's participating interest

Quarterly information in 2023 and 2022 for the consolidated financial statements are as follows:

		Unit: Thousand US Dollar			
	<u>Year 2023</u>	<u>4thQ</u>	<u>3rdQ</u>	<u>2ndQ</u>	<u>1stQ</u>
<b>Revenues</b>					
Revenue from sales		2,201,548	2,192,607	1,923,876	2,193,048
Revenue from pipeline transportation		29,490	30,801	33,595	34,181
Other income					
Gain on foreign exchange rates		25,270	-	8,798	18,966
Gain on remeasuring of financial instruments		-	-	28,538	-
Gain on disposal of participating interests		73,239	-	-	-
Interest income		43,247	36,906	37,334	34,787
Other income		38,242	31,442	41,488	33,373
<b>Total revenues</b>		<b>2,411,036</b>	<b>2,291,756</b>	<b>2,073,629</b>	<b>2,314,355</b>
<b>Expenses</b>					
Operating expenses		280,302	337,237	247,249	360,053
Exploration expenses		62,151	15,426	5,625	10,842
Administrative expenses		167,774	113,153	105,718	100,293
Petroleum royalties		109,240	106,837	93,562	140,516
Depreciation, depletion and amortisation		653,927	629,444	559,716	491,624
Other expenses					
Loss on foreign exchange rates		-	4,905	-	-
Loss on remeasuring of financial instruments		22,457	19,904	-	41,765
Impairment loss on assets and goodwill		120,000	-	-	-
Finance costs		66,244	75,458	75,596	77,159
<b>Total expenses</b>		<b>1,482,095</b>	<b>1,302,364</b>	<b>1,087,466</b>	<b>1,222,252</b>
Share of profit of associates and joint ventures		11,417	9,096	9,623	12,420
<b>Profit before income taxes</b>		<b>940,358</b>	<b>998,488</b>	<b>995,786</b>	<b>1,104,523</b>
Income taxes		(426,247)	(484,442)	(385,423)	(535,276)
<b>Profit for the period</b>		<b>514,111</b>	<b>514,046</b>	<b>610,363</b>	<b>569,247</b>
<b>Profit (loss) attributable to:</b>					
Owners of the parent		514,016	514,102	610,461	569,247
Non-controlling interests		95	(56)	(98)	-
		<b>514,111</b>	<b>514,046</b>	<b>610,363</b>	<b>569,247</b>

		Unit: US Dollar			
		<u>4thQ</u>	<u>3rdQ</u>	<u>2ndQ</u>	<u>1stQ</u>
<b>Earnings per share</b>					
Basic earnings per share		0.13	0.13	0.14	0.14

		Unit: Thousand US Dollar			
	<u>Year 2022</u>	<u>4thQ</u>	<u>3rdQ</u>	<u>2ndQ</u>	<u>1stQ</u>
<b>Revenues</b>					
Revenue from sales		2,469,448	2,388,305	2,382,536	2,030,275
Revenue from pipeline transportation		44,825	43,021	32,719	30,358
Other income					
Gain on foreign exchange rates		44,568	-	-	-
Gain on remeasuring of financial instruments		-	152,519	8,724	-
Interest income		22,778	11,402	5,587	4,264
Other income		115,607	21,835	39,519	18,173
<b>Total revenues</b>		<b>2,697,226</b>	<b>2,617,082</b>	<b>2,469,085</b>	<b>2,083,070</b>
<b>Expenses</b>					
Operating expenses		321,407	300,286	291,598	196,719
Exploration expenses		7,511	41,497	16,553	6,122
Administrative expenses		292,910	80,444	112,400	92,609
Petroleum royalties		174,009	170,824	178,681	164,209
Depreciation, depletion and amortisation		649,934	631,112	565,330	516,759
Other expenses					
Loss on foreign exchange rates		-	86,591	44,217	4,824
Loss on remeasuring of financial instruments		100,117	-	-	245,612
Impairment loss on assets and goodwill		205,084	94,996	-	-
Finance costs		55,586	62,335	63,694	51,968
<b>Total expenses</b>		<b>1,806,558</b>	<b>1,468,085</b>	<b>1,272,473</b>	<b>1,278,822</b>
Share of profit (loss) of associates and joint ventures		13,510	(17,485)	12,964	10,567
<b>Profit before income taxes</b>		<b>904,178</b>	<b>1,131,512</b>	<b>1,209,576</b>	<b>814,815</b>
Income taxes		(486,965)	(467,916)	(609,835)	(496,785)
<b>Profit for the period</b>		<b>417,213</b>	<b>663,596</b>	<b>599,741</b>	<b>318,030</b>

		Unit: US Dollar			
		<u>4thQ</u>	<u>3rdQ</u>	<u>2ndQ</u>	<u>1stQ</u>
<b>Earnings per share</b>					
Basic earnings per share		0.11	0.17	0.15	0.08

## Petroleum Sales Volume and Average Unit Prices

	<u>2023</u>	<u>2022</u>
Net sales of petroleum (BOED)	462,007	468,130
Average petroleum unit prices		
Average unit prices of crude oil and condensate (USD/BBL)	79.09	94.89
Average unit prices of natural gas (USD/MMBTU)	6.00	6.27
Average unit prices of petroleum (USD/BOE)	48.21	53.39
Lifting cost (USD/BOE)	4.69	4.42