

Results for the Second Quarter of Fiscal 2023

November 8, 2023

Cosmo Energy Holdings, Co., Ltd.

Initiatives to Enhance Enterprise Value

Revision of Dividend	Forecast
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Progress in the 7th Consolidated Medium-Term Management Plan Oil&New ~Next Stage ~

Highlights of 2Q FY2023 Results and FY2023 Forecast

2Q	FY2023	Results
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Forecast for FY2023 Performance (Revisions of Forecast for FY2023)

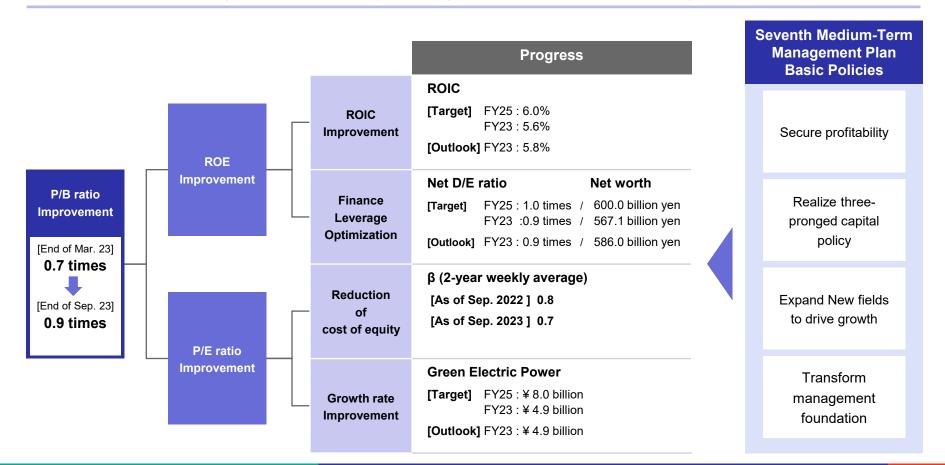


Initiatives to Enhance Enterprise Value



Initiatives to Enhance Enterprise Value

- P/B ratio improved to around 0.9 times recently on the back of the progress of the measures in the 7th medium-term management plan in the first half FY2023.
- Aim to achieve P/B ratio 1.0 times at an early stage by achieving a total return ratio of 60% within the medium-term management plan and by working to build an internal control system to improve ROIC.



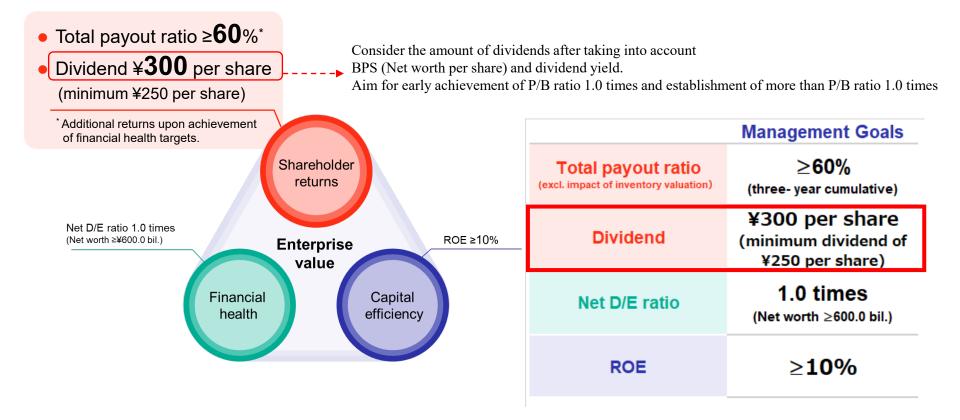


Revision of Dividend Forecast



Revision of Dividend Forecast

FY2023 dividend will be ¥300 per share (planned) (interim ¥150, year-end ¥150) (up ¥150 from the previous year, and up ¥50 from the previous announcement)
 The minimum dividend remain unchanged at ¥250 per share.

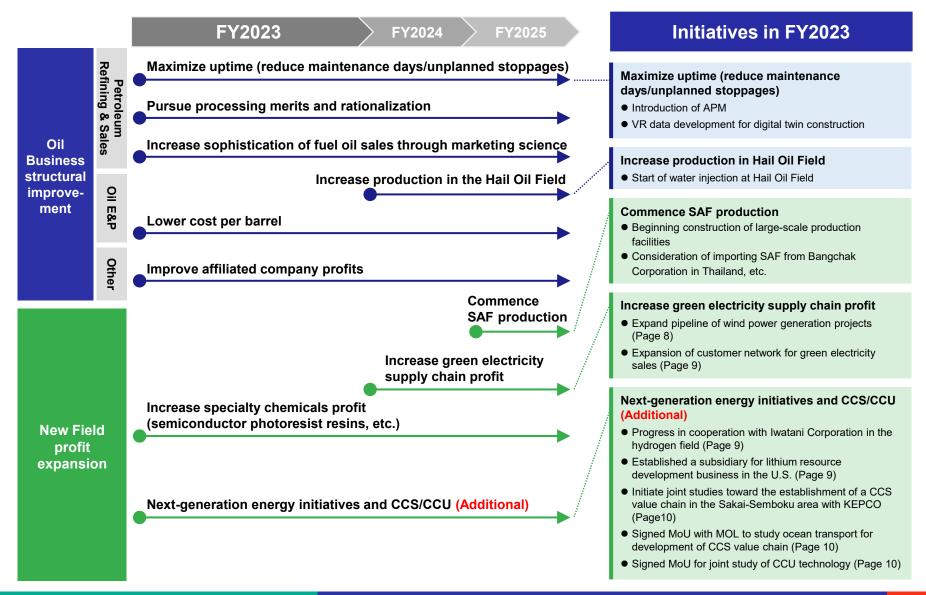




Progress in the 7th Consolidated Medium-Term Management Plan Oil & New ~Next Stage ~



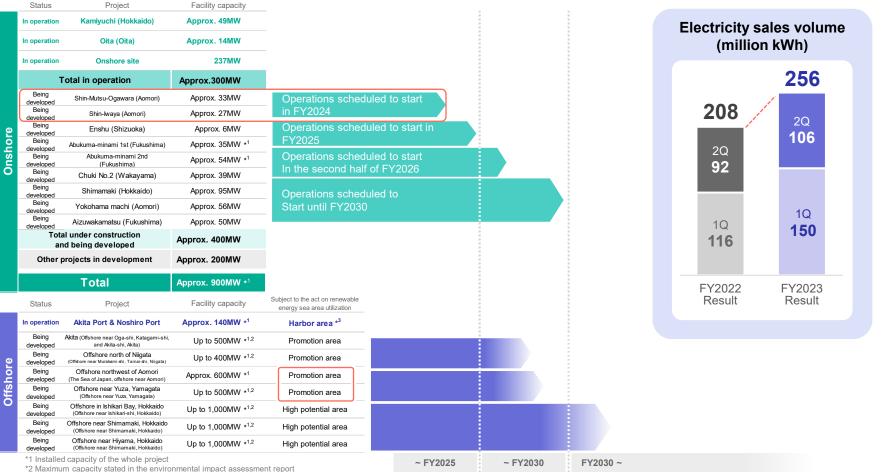
Progress in the 7th Consolidated Medium-Term Management Plan





New Field profit expansion Increase green electricity supply chain profit

- In the onshore wind power business, the start of operation of replacement projects, Shin-Mutsu-Ogawara and Shin-Iwaya, has been moved up to FY2024.
- Regarding offshore wind power generation, Offshore northwest of Aomori and Offshore near Yuza, Yamagata were designated as promotion areas.



*3 Not subject to the Act on Promoting the Utilization of Sea Areas for the Development of Marine Renewable Energy Power Generation Facilities due to the port zone



New Field profit expansion

Increase green electricity supply chain profit / Next-generation energy initiatives and CCS/CCU

- Enhancing the value across entire supply chain through expansion of customer network for green electricity sales
- Collaboration with Iwatani Corporation in the engineering field following the hydrogen station for entry into the hydrogen supply chain

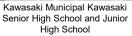
Increase green electricity supply chain profit



Introduced Cosmo Denki Business Green in Kawasaki City, Yokosuka City, and Hayama Town in Kanagawa Prefecture

- Started supplying 100% renewable energy electricity to 207 facilities in Kawasaki City, including municipal schools and ward offices.
- Began supplying electricity from virtually all renewable energy sources to all 72 elementary and junior high schools in Yokosuka City
- Began supplying electricity from virtually all renewable energy sources to 15 public facilities in Hayama Town







Yokosuka City Oogusui juior high School



Next-generation energy initiatives



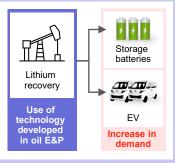
Established a joint venture with Iwatani Corporation to collaborate in the engineering business for hydrogen-related projects

• Aiming to win orders for large-scale hydrogen supply chain projects by leveraging Cosmo Engineering's technologies and capabilities and Iwatani Corporation's know-how in the hydrogen field.

New!

Establishment of a US subsidiary aiming to newly enter the lithium resource development business

- Demand for lithium is also expected to increase with the growth of EV storage batteries and storage batteries for balancing electricity supply and demand.
- Advancing studies for commercialization by utilizing our skilled operational technologies such as sub-surface evaluation or drilling developed over many years in the oil E&P business





New Field profit expansion Next-generation energy initiatives and CCS/CCU

- To establish a CCS value chain for the low carbonization, in collaboration with companies with strengths in each area.
- Promoting consideration of effective utilization of CO₂ (CCU) beyond CCS.

CCS

(Carbon dioxide Capture and Storage)



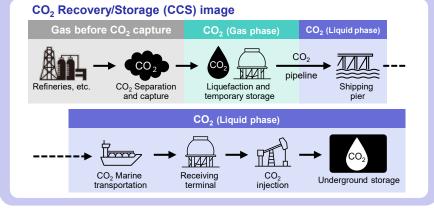
Started joint study with KEPCO to establish a CCS value chain in the Sakai-Semboku area

Joint study with Kansai Electric Power Co. (KEPCO) on liquefaction, storage, and shipping facilities, aiming to design larger-scale and more efficient facilities.

New!

Signed MoU with MOL to study ocean transport for development of CCS value chain

Aiming to accumulate know-how such as specifications of liquefied CO_2 vessels and transport costs, concluded a MoU on marine transportation with Mitsui O.S.K. Lines (MOL).





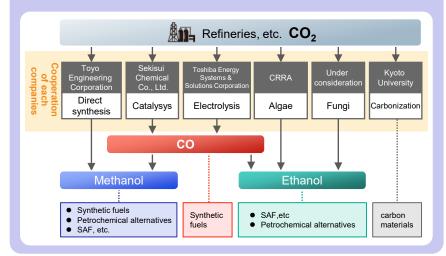
(Carbon dioxide Capture and Utilization)

New!

MOUs signed with four companies with CO₂ Conversion to Valuable Utilities (CCU) technology for joint studies

Technologies for producing methanol and ethanol from CO $_{\rm 2}$ and technologies for turning methanol and ethanol into end products, both of which are in the practical and development/demonstration stages.

Consideration will be carried out with the cooperation of each company on the progress of technological innovation, CO_2 reduction effects, investment profitability, etc.





Highlights of 2Q FY2023 Results and FY2023 Forecast



Highlights of 2Q FY2023

- Ordinary profit was ¥83.1 billion and net profit was ¥36.1 billion.
- Ordinary profit excluding the impact of inventory valuation was ¥77.9 billion, and net income excluding the impact of inventory valuation was ¥32.5 billion.

Highlights of FY2023 Forecasts (Revisions to Forecasts)

- Ordinary profit and net income are expected to be ¥155.0 billion and ¥78.0 billion, respectively.
- Ordinary profit excluding the impact of inventory valuation is expected to be ¥132.0 billion, and net income excluding the impact of inventory valuation is expected to be ¥62.0 billion.

				Unit: billion yen		Unit: billion yen
		2Q FY2023 Results	2Q FY2022 Results	Change	FY2023 Forecast	Change
1	Ordinary profit	83.1	173.8	-90.7	155.0	-9.5
2	(Impact of inventory valuation)	5.2	91.8	-86.6	23.0	1.4
3	Ordinary profit excluding the impact of inventory valuation	77.9	82.0	-4.1	132.0	-10.9
4	Profit attributable to owners of parent	36.1	94.9	-58.8	78.0	10.1
5	Profit attributable to owners of parent excluding the impact of inventory valuation	32.5	30.6	1.9	62.0	9.2
6	Dubai crude oil price (USD/B) (AprSep.)	82	102	-20	84	-9
7	JPY/USD exchage rate (yen/USD) (AprSep.)	141	134	7	143	8
		2Q FY2023 Results	FY2022 Results	Change	FY2023 Forecast	Change
8	Net worth	563.4	527.9	35.5	586.0	58.1
9	Net worth ratio	25.8%	24.9%	0.9%	27.4%	2.5%
10	Net Debt to Equity Ratio (times)	0.83	1.10	-0.27	0.93	-0.17
11	ROE	-	13.8%	-	14.0%	0.2%
12	ROE (excluding the impact of inventory valuation)	-	10.7%	-	11.1%	0.4%
13	ROIC (excluding the impact of inventory valuation)	-	6.1%	-	5.8%	-0.3%



2Q FY2023 Results



2Q FY2023 Review

- Consolidated ordinary profit excluding the impact of inventory valuation was ¥77.9 billion (Down ¥4.1 billion year on year).
- Due to the impact of inventory valuation of ¥5.2 billion, consolidated ordinary profit was ¥83.1 billion (Down ¥90.7 billion year on year).
- Net profit was ¥36.1 billion (Down ¥58.8 billion year on year).

Petroleum business

Ordinary profit excluding the impact of inventory valuation

¥43.5 billion (Up ¥12.6 billion year on year)

Petrochemical business

Ordinary profit

- **3.4 billion** (Down ¥11.2 billion year on year)

Oil development business

Ordinary profit

¥33.0 billion (Down ¥8.1 billion year on year)

Renewable Energy Business

Ordinary profit

¥0.1 billion

(Up ¥0.2 billion year on year)



Profit increased due to improved margins and cost and other improvements despite of refinery trouble and turnaround.

Profit decreased due to softening of methyl-ethyl-keton market and olefin market conditions, etc.

Profit decreased due to a temporary decline in the production volume caused by the impact of construction work in the Hail Oil Field.

Profit increased due to improved wind conditions.



[2Q FY2023 Results] Consolidated profit Statements – Changes from 2Q FY2022

					Unit: billion yen
		2Q FY2023 Results	2Q FY2022 Results	Changes	FY2023 Forecast
1	Net sales	1,308.5	1,371.6	-63.1	2,550.0
2	Operating profit	75.9	172.9	-97.0	146.0
3	Non-operating income/expenses, net	7.2	0.9	6.3	9.0
4	Ordinary profit	83.1	173.8	-90.7	155.0
5	Extraordinary income/losses, net	5.6	0.8	4.8	-3.1
6	Income taxes	47.9	73.3	-25.4	66.4
7	Profit attributable to non-controlling interests	4.6	6.4	-1.8	7.4
8	Profit attributable to owners of parent	36.1	94.9	-58.8	78.0
9	Impact of inventory valuation	5.2	91.8	-86.6	23.0
10	Ordinary profit excluding the impact of inventory valuation	77.9	82.0	-4.1	132.0
11	Dubai crude oil price (USD/B) (AprSep.)	82	102	-20	84
12	JPY/USD exchange rate (yen/USD) (AprSep.)	141	134	7	143
	[Reference]				
13	Dubai crude oil price (USD/B) (JanJun.) (*1)	81	90	-9	82
14	JPY/USD exchange rate (yen/USD) (JanJun.)	135	123	12	140
15	CDU operating ratio (Calendar Day basis) (*2)	85.9%	95.7%	-9.8%	87.5%
16	CDU operating ratio (Streaming Day basis) (*2,3)	92.7%	97.7%	-5.0%	94.4%

(*1) The Dubai crude oil price two months ago is listed, as ICE Murban crude oil price, which is an index price for the Oil E&P Business, is assessed by reference to the Dubai crude oil price two months ago.

(e.g.) In the case of full-year results (Jan-Dec), the average of Dubai crude oil prices from November of the previous year to October of the current year is shown.

(*2) The operating ratio at the Company's three refineries.

(*3) Streaming day indicates operating ratio excluding the impact of suspended operations due to regular maintenance, etc.



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Unit : billion yen

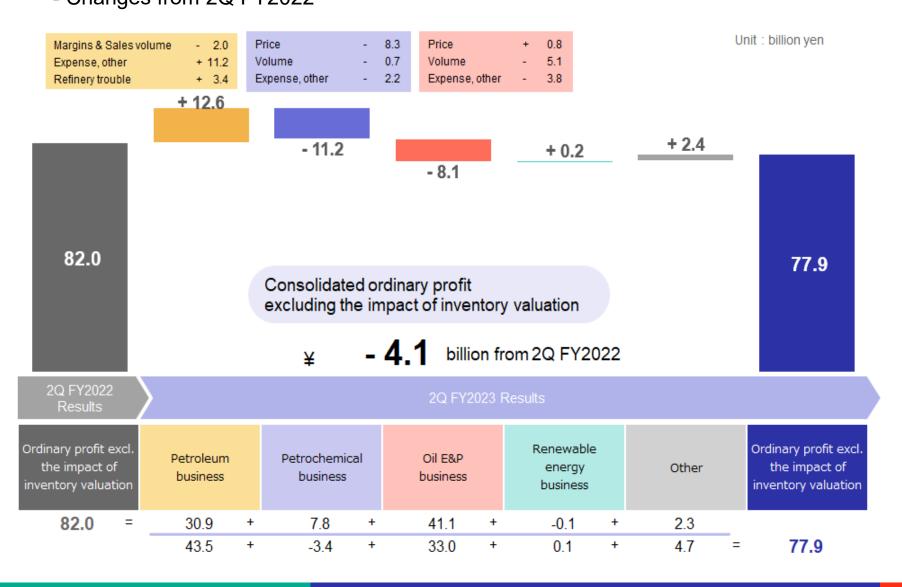
			2Q FY202	3 Results	2Q FY202	2 Results	Char	nges
			Ordinary profit	Ordinary profit exc. the impact of inventory valuation	Ordinary profit	Ordinary profit exc. the impact of inventory valuation	Ordinary profit	Ordinary profit exc. the impact of inventory valuation
1		Total	83.1	77.9	173.8	82.0	-90.7	-4.1
2		Petroleum business	48.7	43.5	122.7	30.9	-74.0	12.6
3	ent)	Petrochemical business	-8	3.4	7	7.8	-11	.2
4	/ segment)	Oil E&P business (*1)	33	3.0	41	1.1	-8	5.1
5	(By	Renewable energy business	().1	-(0.1	C	0.2
6		Other (*2)	4	4.7	2	2.3	2	2.4

(*1) The accounting period of three operators (Abu Dhabi Oil Company, Qatar Petroleum Development and United Petroleum Development) is December.

(*2) Including consolidated adjustment.



[2Q FY2023 Results] Consolidated Ordinary Profit (excluding the impact of inventory valuation) - Changes from 2Q FY2022





[FY2023 2Q Results] Outline of Consolidated Cash Flows and Consolidated Balance Sheets

	Consolidated Cash Flows		Unit: billion yen
		FY 2023	FY 2022
		(AprSep.2023)	(AprSep.2022)
1	Cash flows from operating activities	165.3	-57.7
2	Cash flows from investing activities	-18.7	-41.2
3	Free cash flow (1+2)	146.6	-98.9
4	Cash flows from financing activities	-124.6	110.1
5	Cash and cash equivalents at end of the period	88.1	67.9

				Unit: billion yen		
	Consolidated Balance Sheets	Balance Sheets FY2023 (As of Sep.30, '23)				
1	Total Assets	2,180.0	2,120.8	59.2		
2	Net assets	687.7	663.4	24.3		
3	Net worth	563.4	527.9	35.5		
4	Net worth ratio	25.8%	24.9%	0.9%		
5	Net interest-bearing debt *1	467.3	581.9	-114.6		
6	Net Debt Equity Ratio (times)	0.83	1.10	-0.27		

*1 Total interest-bearing debts net of cash and deposits etc. as of the end of the period



[FY2023 2Q Results] Overview of Consolidated Capital Expenditures

Capital Expenditures & Depreciations, etc.

			Unit: billion yen
		2Q FY2023 Results	Changes
1	Capital expenditures	31.6	1.8
2	Depreciation expense amount,etc	27.1	-1.8

Capital Expenditures by Segment

				Unit: billion yen
		2Q FY2023 Results	2Q FY2022 Results	Changes
1	Petroleum	15.1	8.1	7.0
2	Petrochemical	3.8	6.8	-3.0
3	Oil E&P	8.7	5.8	2.9
4	Renewable energy	3.9	8.5	-4.6
5	Other, adjustment	0.1	0.6	-0.5
6	Total	31.6	29.8	1.8
7	Investment securities, etc*	16.3	0.7	15.6

* Investment securities, etc. are included in the net investment amount of ¥ 420.0 billion in the 7th Consolidated Medium-Term Management Plan (from FY2023 to FY2025).



Forecast for FY2023 Performance (Revision of Forecast for FY2023)



[FY2023 Forecast] Outlook (Changes from the Previous Announcement), Assumptions and Sensitivities

- Consolidated ordinary profit is expected to be ¥155.0 billion (up ¥30.0 billion from the previous announcement). consolidated ordinary profit excluding the impact of inventory valuation to be ¥132.0 billion (up ¥7.0 billion from the previous announcement), and net income to be ¥78.0 billion (up ¥23.0 billion from the previous from the previous announcement)
- We revise FY2023 forecasts upward as the consolidated ordinary profit and net income are all expected to exceed the previously announced figures, and earnings forecasts are revised upward.

								Unit : billion yen	
			FY2023 Forecast FY2023 Previous Announcement (May 2023)		Char	nges			
			Ordinary profit	Ordinary profit excl. the impact of inventory valuation	Ordinary profit	Ordinary profit excl. the impact of inventory valuation	Ordinary profit	Ordinary profit excl. the impact of inventory valuation	
1	Tot	tal	155.0	132.0	125.0	125.0	30.0	7.0	
2		Petroleum business	87.0	64.0	56.0	56.0	31.0	8.0	
3	ent)	Petrochemical business	-7	-7.0		2.0		-9.0	
4	segment)	Oil E&P business ^{*1}	64	64.0		55.0		0	
5	(By	Renewable energy business	2.	.0	2.0		0.	0	
6		Other *2	9.	.0	10.0		-1.0		
7	Imp	pact of inventory valuation	23	.0	0.	.0	23	.0	
8	Pro	fit attributable to owners of parent	78	.0	55	5.0	23	.0	
9		t attributable to owners of parent excluding the ct of inventory valuation ^{*3}	62	2.0	55	5.0	7.	0	

0.0		(Oct. 2023- Mar. 2024)	••	•••	
 	40	JPY/USD exchange rate	4.45	400	
-1.0	16	(Oct. 2023- Mar. 2024)	145	130	
 		e Dubai crude oil price two months ago is listed, as ICE Murb			
00.0		e Oil E&P Business, is assessed by reference to the Dubai c			
23.0	(e.g.) In the case of full-year results (Jan-Dec), the average of Dubai crude oil prices from November of the				
		previous year to October of the current year is shown.			

Precondition

(Apr.-Mar.) JPY/USD exchange rate

(Apr.-Mar.) *

(Jan.-Dec.) JPY/USD exchange rate

(Jan.-Dec.)

11

12

13

14

Dubai crude oil price (USD/B)

Dubai crude oil price (USD/B)

Dubai crude oil price (USD/B)

*1 The Accounting period of three operators (Abu Dhabi Oil Company, Qatar Petroleum Development and United Petroleum Development) is December

*2 Including consolidated adjustment *3 Calculated after deducting 30% as tax equivalent for the impact of inventory valuation.

		FY2023 Forecast	FY2023 Previous Announcement (August 2023)	Changes
10	Dividend per Share (Plan) (yen)	¥300	¥250	¥50

Item		Crude oil (Dubai)	JPY/USD exchange rate		
17	Petroleum	Inventory Impact	+3.0 billion yen	+1.8 billion yer	
18	Business	Refinery fuel cost etc.	-0.5 billion yen	-0.3 billion yen	
19		Total	+2.5 billion yen	+1.5 billion yen	
20	Oil E&P Busir	ness	_	_	

* Figures above refer to impacts by crude oil price (US\$1/bbl) and yen-dollar exchange rate (¥ 1/USD) Sensitivity is calculated based on the assumption that crude oil prices and foreign exchange rates remain constant throughout the period. E&P business are estimated for 12 months for crude oil prices and foreign exchange



FY2023 Previous

Announcement (May 2023)

85

130

83

131

85

-1

13

-1

9

0

15

FY2023 Forecast

84

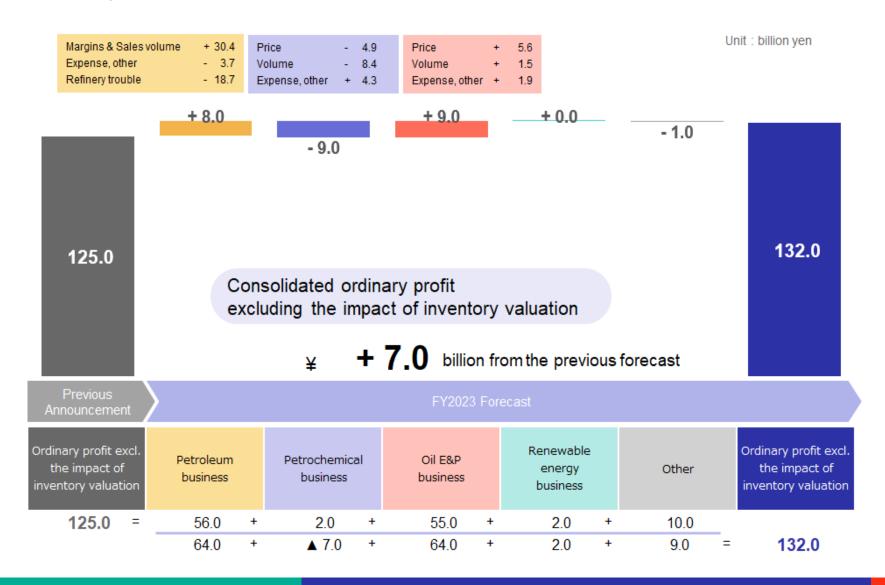
143

82

140

85

[FY2023 Forecast] Consolidated Ordinary Profit (Excluding the impact of inventory valuation) - Changes from the Previous Announcement





[FY2023 Forecast] Outlook for Consolidated Cash Flows and Financial Index

	Consolidated cash flows			Unit: billion yen
	Consolidated cash nows		FY 2023 Forecast	FY 2022
			(AprMar.2024)	(AprMar.2023)
1	Cash flows from operating activitie	es	173.3	8.1
2	Cash flows from investing activities	es	-98.3	-81.2
3	Free cash flow (1+2)		75.0	-73.1

	Financial Index	l .			Unit: billion yen	
			FY 2023 Forecast (As of Mar.31, '24)	FY 2022 (As of Mar.31, '23)	Changes	
1	Net worth		586.0	527.9	58.1	
2	Net worth ratio		27.4%	24.9%	2.5%	
3	Net Debt to Equity Ratio (times)		0.93	1.10	-0.17	



[FY2023 Forecast] Outline of Consolidated Capital Expenditures from the Previous Announcement

	Capital Expenditures & Depreciations, etc.								
			Unit: billion yen						
		FY2023 Forecast	Changes						
1	Capital expenditures	102.6	-2.6						
2	Depreciation expense amount,etc	55.4	-1.5						

Capital Expenditures by Segment

				Unit: billion yen
		FY2023	Previous Announcement	Changes
		Forecast	(May 2023)	
1	Petroleum	53.7	41.0	12.7
2	Petrochemical	5.7	6.3	-0.6
3	Oil E&P	23.0	28.1	-5.1
4	Renewable energy	17.2	22.9	-5.7
5	Other, adjustment	3.0	6.9	-3.9
6	Total	102.6	105.2	-2.6
7	Investment securities, etc*	21.0	21.2	-0.2

* Investment securities, etc. are included in the net investment amount of ¥ 420.0 billion in the

7th Consolidated Medium-Term Management Plan (from FY2023 to FY2025).



Supplementary Information

[2Q FY2023 Results] Supplementary Information

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Supplementary Information of 2Q FY2023 Results



[FY2023 2Q Results] Sales volume, CDU operating ratios

							Unit: thousand KL
			2Q FY2023 Results	2Q FY2022 Results	Changes	FY2023 Forecast	FY2023 forecast changes from FY2022
1		Gasoline	3,682	3,607	102.1%	7,236	100.4%
2	Selling volume in Japan	Kerosene	485	515	94.2%	2,032	97.8%
3		Diesel fuel	2,795	2,816	99.2%	5,664	99.3%
4		Heavy fuel oil A	743	741	100.2%	1,615	97.2%
5		Four-Total	7,704	7,679	100.3%	16,547	99.4%
6		Naphtha	2,314	2,625	88.2%	5,253	100.9%
7		Jet fuel	191	292	65.5%	464	91.3%
8		Heavy fuel oil C	384	374	102.7%	750	97.3%
9		Sub-Total	10,594	10,971	96.6%	23,015	99.5%
10		Middle distillates Export	-	338	0.0%	250	52.0%
11		Bonded products and other	1,570	1,373	114.4%	2,844	107.6%
12	Export volume	incl. Jet fuel	1,018	721	141.1%	1,826	117.2%
13		incl. Low-sulfur C fuel oil	224	500	44.9%	504	60.1%
14		Sub-Total	1,570	1,711	91.8%	3,094	99.0%
15	Total		12,164	12,681	95.9%	26,109	99.4%

			2Q FY2023 Results	2Q FY2022 Results	Changes
16	CDU operating ratio	(Calendar Day basis) ^{*1}	85.9%	95.7%	-9.8%
17	CDU operating ratio	(Streaming Day basis) ^{*1,2}	92.7%	97.7%	-5.0%

*1 The operating ratio at the Company's three refineries

*2 Streaming day indicates operating ratio excluding the impact of suspended operations due to regular repairs and maintenance, etc.



[FY2023 2Q Results] Crude oil production volume, Crude reserves estimate (Proved and Probable)

1 Crude oil production volume 2Q FY2023 Results 2Q FY2022 Results Cosmo Energy Exploration & Production Co., Ltd. (B/D) 35,418 43,080 -7,662 82.2%

* The production volume represents the total production volumes of the three major developers: Abu Dhabi Oil Co., Ltd., and United Petroleum Development Co., Ltd.

* The production period has calculated in the January-March, because that the three major developers of the accounting period is December.

* The Cosmo Energy Group has a 51.5% stake in Abu Dhabi Oil Co., Ltd., and a 50.0% stake in United Petroleum Development Co., Ltd.

2	Crude Reserves Estimate (working interest base) *1	(As of	f Dec 31, 2022)
			mmbls
	Total Proved ^{*2} and Probable Reserves ^{*3}		133.0
	(Ref.: Reserves to Production Ratio of Total Proved and Probable Rese	rves)	about 17years

(*1) Results of crude oil reserves evaluation

Abu Dhabi Oil's reserves, which are considered to have a significant impact on our future earnings, have been evaluated by a third party by Gaffney, Cline & Associates (GCA), one of the world's leading independent valuation firms for crude oil reserves. This assessment is conducted by GCA on the basis of its own internal evaluations of reserves conducted independently by our affiliates. This assessment is carried out in accordance with the criteria (2007 PRMS(Petroleum Resources Management System) prepared by Oil and Gas Reserves Committee (Crude Oil and Gas Reserve Commission) of SPE(Society of Petroleum Engineers Society of Petroleum Engineers and reviewed and jointly formulated by WPC(World Petroleum Congress World Oil Council), AAPG (American Association of Petroleum Geologists American Society of Petroleum Geological Engineers, and SPEE (Society of Petroleum Evaluation Engineers Petroleum Assessment Technology Society. The evaluation of the reserves or the arount of Crude oil and the joint oil development is an in-house evaluation conducted independently by both companies. The evaluation of crude oil collected.

(*2) What is the confirmed reserves?

Confirmed reserves refer to the amount of oil that is reasonably expected to be recovered commercially under the current economic conditions, operational practices and regulations from known reservoirs after a certain point in time through the analysis of geological and engineering data. It is also stated that if a probabilistic method is used, the probability that the confirmed reserves can be recovered must be greater than 90%. (Defined in March of SPE PRMS 2007)

(*3) What is estimated reserves?

This is an unidentified reserve that can probably be recovered through the analysis of geological and engineering data. In addition, if a probabilistic method is used, the probability that the confirmation + estimated reserves can be recovered must be 50% or more (defined in March of SPE PRMS 2007).



FY2023 2Q Results - Changes from 2Q FY2022

									Unit: billion yen
		Net sales		Operating profit		Ordinary profit		Ordinary profit (excluding the impact inventory valuation)	
		Results	Changes from 2Q FY2022	Results	Changes from 2Q FY2022	Results	Changes from 2Q FY2022	Results	Changes from 2Q FY2022
1	Petroleum business	1,174.3	-32.8	45.3	-81.4	48.7	-74.0	43.5	12.6
2	Petrochemical business	170.0	-68.1	-2.2	-10.3	-3.4	-11.2	-3.4	-11.2
3	Oil E&P business	56.5	-4.0	28.3	-7.0	33.0	-8.1	33.0	-8.1
4	Renewable energy business	5.7	1.0	-0.1	0.3	0.1	0.2	0.1	0.2
5	Other, adjustment	-98.0	40.8	4.6	1.4	4.7	2.4	4.7	2.4
6	Total	1,308.5	-63.1	75.9	-97.0	83.1	-90.7	77.9	-4.1

Group Companies (by Segment)

Petroleum business	Cosmo Oil Co.,Ltd., Cosmo Oil Marketing Co., Ltd., Cosmo Oil Sales Corp, Cosmo Oil Lubricants Co., Ltd., Cosmo Energy Solutions Co., Ltd.,Gyxis Corporation (owned by the Cosmo Energy Group on the equity method), Kygnus Sekiyu K.K.(owned by the Cosmo Energy Group on the equity method), etc.
Petrochemical business	Cosmo Matsuyama Oil Co., Ltd., CM Aromatics Co., Ltd., Maruzen Petrochemical Co., Ltd., HD Hyundai Cosmo Petrochemical Co., Ltd. (owned by the Cosmo Energy Group on the equity method), etc.
Oil E&P business	Cosmo Energy Exploration & Production Co., Ltd., Abu Dhabi Oil Co., Ltd., Qatar Petroleum Development Co., Ltd., United Petroleum Development Co., Ltd. (owned by the Cosmo Energy Group on the equity method), etc.
Renewable energy business	Cosmo Eco Power Co.,Ltd , etc.
Other	Cosmo Engineering Co.,Ltd., Cosmo Trade & Services Co., Ltd., etc.



[FY2023 2Q Results] Major data of each business

		(1) Refinery Operating Ratio							
			FY2018	FY2019	FY2020	FY2021	FY2022	2Q FY2023	
		CDU operating ratio (Calender Day basis) *1	86.1%	87.9%	84.3%	95.4%	97.8%	85.9%	
		(2) Number of SSs by Operator Ty	/pe						
			FY2018	FY2019	FY2020	FY2021	FY2022	2Q FY2023	
		Subsidiary ^{*2}	888	876	877	872	880	877	
1	Petroleum business	Dealers	1,903	1,879	1,852	1,823	1,769	1,749	
•		Total ^{*3}	2,791	2,755	2,729	2,695	2,649	2,626	
		Number of Self-Service SSs *3	1,048	1,072	1,099	1,112	1,121	1,125	
		(3) "Cosmo The Card" -Number of credit cards in force & Accumulative number of contracted my car lease & "Carlife Square" –Number of App members							
			FY2018	FY2019	FY2020	FY2021	FY2022	2Q FY2023	
		Cosmo The Card (million cards) ^{*3}	4.33	4.21	4.12	4.03	3.84	3.72	
		My car lease (Units) ^{*3}	60,579	73,634	85,126	96,214	108,104	113,336	
		Carlife Square (million downloads) *3		2.02	3.44	4.72	5.95	6.58	
_	Oil E&P	Crude oil production volume							
2	business		FY2018	FY2019	FY2020	FY2021	FY2022	2Q FY2023	
		Cosmo Energy E&P Co., Ltd. (B/D) ^{*4}	52,303	50,773	49,208	45,157	42,430	35,418	
		Wind power plant capacity(ten the	k M						
	Renewable	wind power plant capacity(ten the	FY2018	FY2019	FY2020	FY2021	FY2022	2Q FY2023	
3	energy								
	business	Plant Capacity (MW) *3	227	266	261	300	247	312	
		Electricity sales volume (million kWh)	468	550	532	595	553	256	

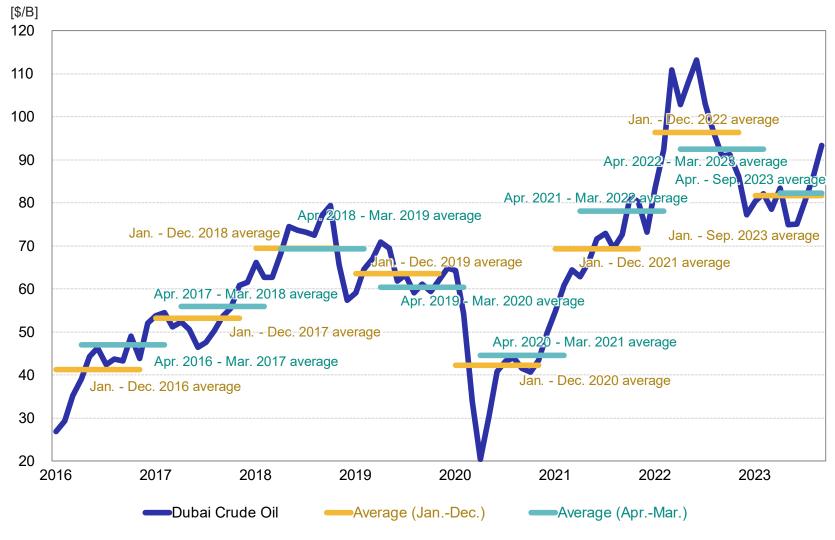
*1 April-March results for each fiscal year, *2 Directly operated SS and our wholly owned subsidiaries' dealer SS,

*3 At the end of March of each fiscal year, *4 January-December results for each fiscal year

*5 From FY2018 to FY2022 :Total production volume of Abu Dhabi Oil Co., Ltd., Qatar Petroleum Development Co., Ltd. and United Petroleum Development Co., Ltd. From FY2023:Total production volume of Abu Dhabi Oil Co., Ltd., and United Petroleum Development Co., Ltd.



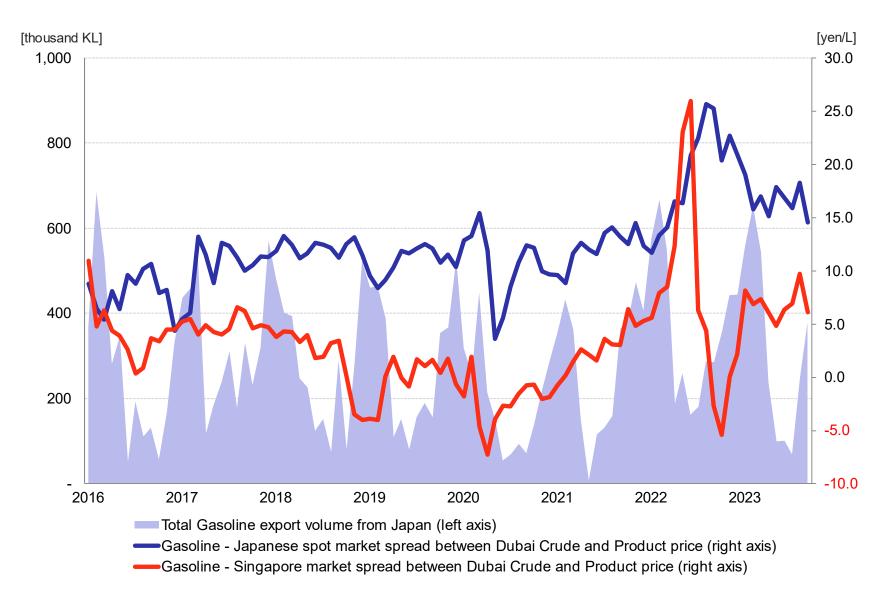
Historical changes in Dubai crude oil price



*Trend of crude oil price from January 2016 to September 2023

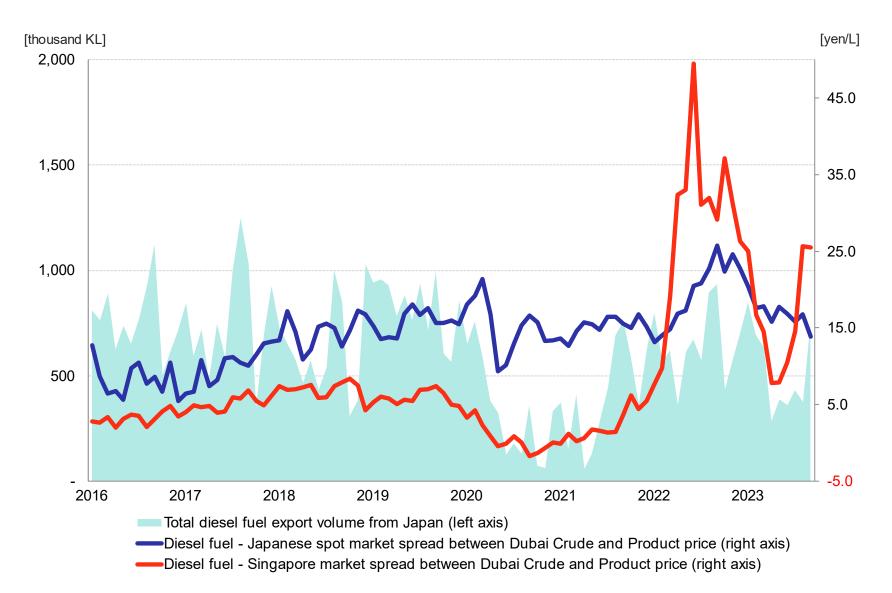


Historical changes of gasoline export and margin (Domestic and Overseas)



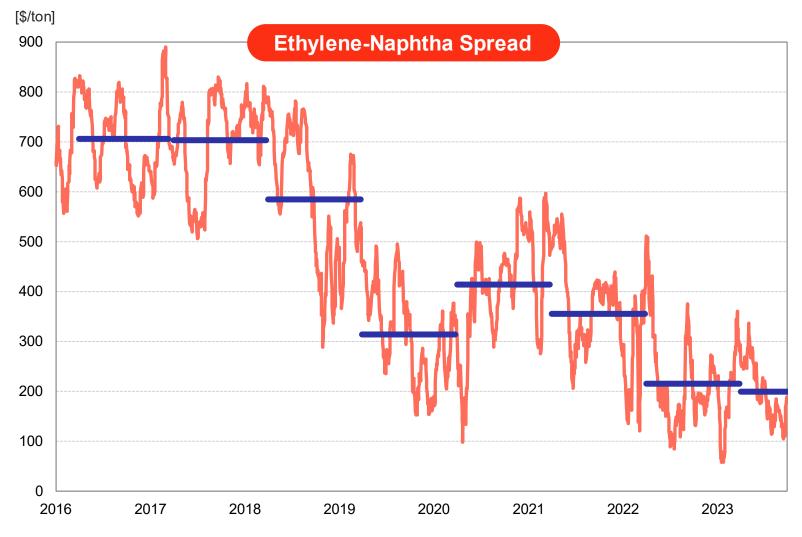


Historical changes of diesel fuel export and margin (Domestic and Overseas)





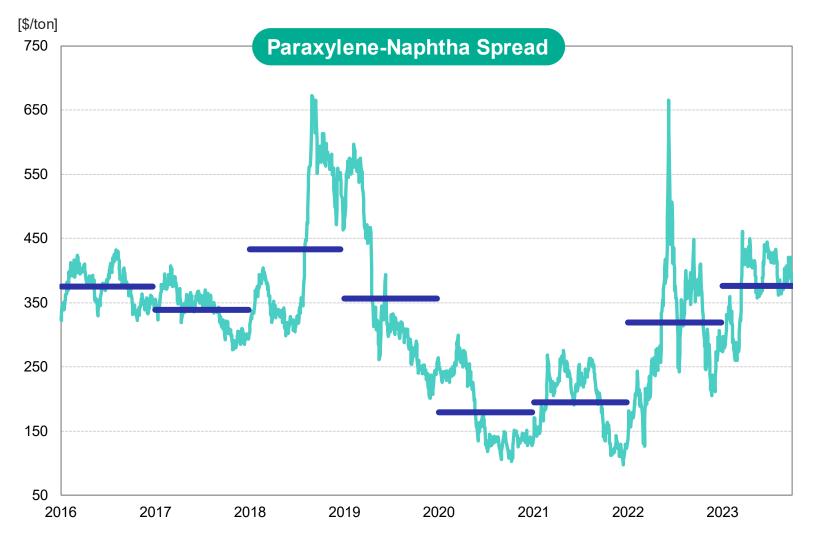
Market conditions for Ethylene



*Horizontal line indicates the average of each calendar year (Apr.-Mar.).



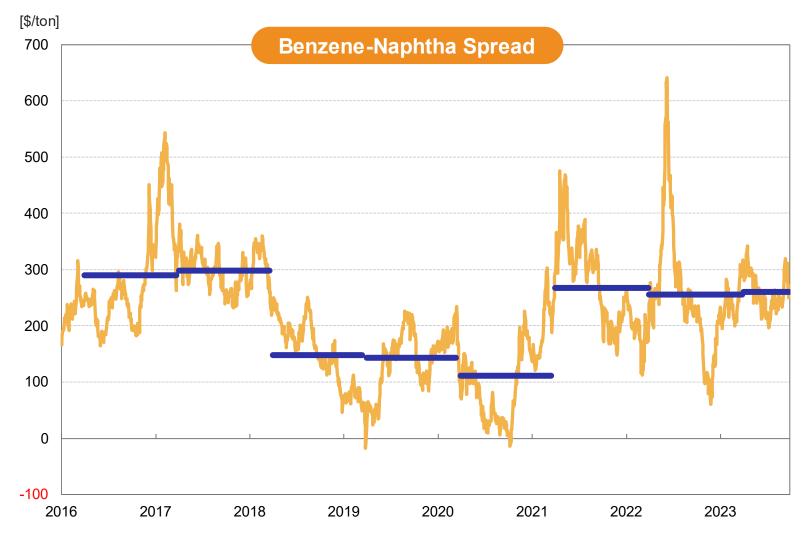
Market conditions for Paraxylene



*Horizontal line indicates the average of each calendar year (Jan.-Dec.).



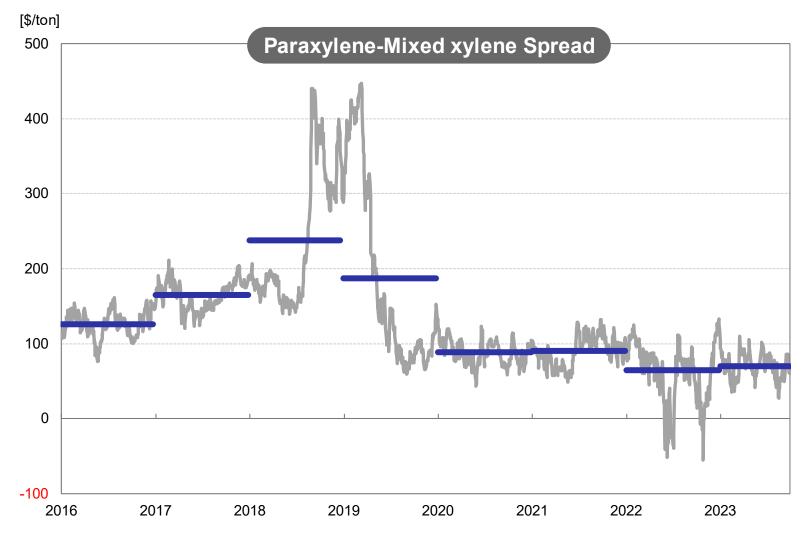
Market conditions for Benzene



*Horizontal line indicates the average of each calendar year (Apr.-Mar.).



Market conditions for Paraxylene-Mixed xylene



*Horizontal line indicates the average of each calendar year (JanDec.).



Forecast for FY2023 Performance (Revision of Forecast)



[FY2023 Forecast] Outlook (Changes from FY2022) Precondition and business sensitivity

Unit : billion yen

			FY2023 Forecast		FY2022 Results		Changes	
			Ordinary profit	Ordinary profit excl. the impact of inventory valuation	Ordinary profit	Ordinary profit excl. the impact of inventory valuation	Ordinary profit	Ordinary profit excl. the impact of inventory valuation
1	To	otal	155.0	132.0	164.5	142.9	-9.5	-10.9
2		Petroleum business	87.0	64.0	65.7	44.1	21.3	19.9
3	ment	Petrochemical business	-7.0 64.0		3.8 84.5		-10.8	
4	eg	Oil E&P business ^{*1}					-20.5	
5	(By s	Renewable energy business		2.0	2.6		-0.6	
6	Ë	Other *2	9.0		7.9		1.1	
7	7 Impact of inventory valuation		23.0		21.6		1.4	
8	8 Profit attributable to owners of parent		78.0		67.9		10.1	
9	Profit attributable to owners of parent excluding the impact of inventory valuation ^{*3}		62.0		52.8		9.2	

*1 The Accounting period of three operators (Abu Dhabi Oil Company, Qatar Petroleum Development and United Petroleum Development) is December.

*2 Including consolidated adjustment *3 Calculated after deducting 30% as tax equivalent for the impact of inventory valuation.

		FY2023 Forecast	FY2022 Results	Changes
10	Dividend per Share (Plan) (yen)	¥300	¥150	+ ¥150

Pr	recondition	FY2023 Forecast	FY2022 Results	Changes
11	Dubai crude oil price (USD/B) (AprMar.)	84	93	-9
12	JPY/USD exchange rate (AprMar.)	143	135	8
13	Dubai crude oil price (USD/B) (JanDec.)	82	95	-13
14	JPY/USD exchange rate (JanDec.)	140	131	9

(*) The Dubai crude oil price two months ago is listed, as ICE Murban crude oil price, which is an index price for the Oil E&P Business, is assessed by reference to the Dubai crude oil price two months ago.

(e.g.) In the case of full-year results (Jan-Dec), the average of Dubai crude oil prices from November of the previous year to October of the current year is shown.

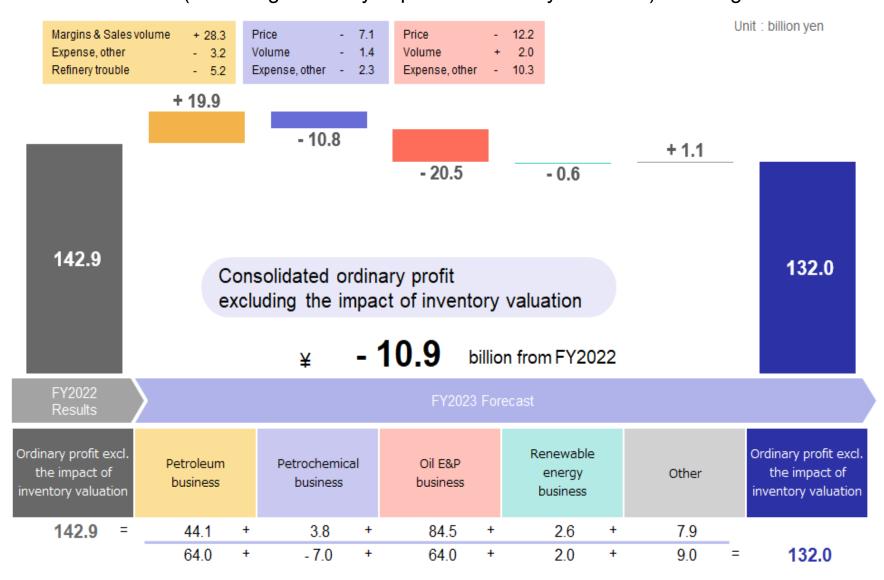
Se	ensitivity		Crude oil (Dubai)	JPY/USD exchange rate	
15	Petroleum	Inventory Impact	+3.0 billion yen	+1.8 billion yen	
16	Business	Refinery fuel cost etc.	-0.5 billion yen	-0.3 billion yen	
17		Total	+2.5 billion yen	+1.5 billion yen	
18	Oil E&P Business		_	_	

* Figures above refer to impacts by crude oil price (US\$1/bbl) and yen-dollar exchange rate (¥ 1/USD)

Sensitivity is calculated based on the assumption that crude oil prices and foreign exchange rates remain constant throughout the period.E&P business are estimated for 12 months for crude oil prices and foreign exchange.



[FY2023 Forecast] Consolidated Ordinary Profit (excluding inventory impact of inventory valuation) – Changes from FY2022





[FY2023 Forecast] Outline of Consolidated Capital Expenditures – Changes from FY2022

			Unit: billion yen
		FY2023 Forecast	Changes
1	Capital expenditures	102.6	30.7
2	Depreciation expense amount,etc	55.4	-2.8

Capital Expenditures & Depreciations, etc.

Capital Expenditures by Segment

				Unit: billion yen
		FY2023 Forecast	FY2022 Results	Changes
1	Petroleum	53.7	19.8	33.9
2	Petrochemical	5.7	9.6	-3.9
3	Oil E&P	23.0	22.4	0.6
4	Renewable energy	17.2	19.4	-2.2
5	Other, adjustment	3.0	0.7	2.3
6	Total	102.6	71.9	30.7
7	Investment securities, etc*	21.0	9.1	11.9

*Investment securities, etc. are included in the net investment amount of ¥ 420.0 billion in the 7th Consolidated Medium-Term Management Plan (from FY2023 to FY2025).



FY2023 Forecast – Changes from FY2022

									Unit: billion yen
		Net s	sales	Operatir	ng profit	Ordina	ry profit	(excluding th	y profit ne impact of valuation)
		Forecast	Changes from FY2022	Forecast	Changes from FY2022	Forecast	Changes from FY2022	Forecast	Changes from FY2022
1	Petroleum business	2,257.0	-194.5	80.0	14.6	87.0	21.3	64.0	19.9
2	Petrochemical business	336.0	-104.2	-4.7	-11.6	-7.0	-10.8	-7.0	-10.8
3	Oil E&P business	125.0	-13.0	59.5	-20.4	64.0	-20.5	64.0	-20.5
4	Renewable energy business	15.0	2.8	2.0	-0.1	2.0	-0.6	2.0	-0.6
5	Other, adjustment	-183.0	67.0	9.2	-0.3	9.0	1.1	9.0	1.1
6	Total	2,550.0	-241.9	146.0	-17.8	155.0	-9.5	132.0	-10.9

Cosmo Energy Group (by Segment)

Petroleum business	Cosmo Oil Co.,Ltd., Cosmo Oil Marketing Co., Ltd., Cosmo Oil Sales Corp, Cosmo Oil Lubricants Co., Ltd., Cosmo Energy Solutions Co., Ltd.,Gyxis Corporation (owned by the Cosmo Energy Group on the equity method), Kygnus Sekiyu K.K.(owned by the Cosmo Energy Group on the equity method), etc.
Petrochemical business	Cosmo Matsuyama Oil Co., Ltd., CM Aromatics Co., Ltd., Maruzen Petrochemical Co., Ltd., HD Hyundai Cosmo Petrochemical Co., Ltd. (owned by the Cosmo Energy Group on the equity method), etc.
Oil E&P business	Cosmo Energy Exploration & Production Co., Ltd., Abu Dhabi Oil Co., Ltd., Qatar Petroleum Development Co., Ltd., United Petroleum Development Co., Ltd. (owned by the Cosmo Energy Group on the equity method), etc.
Renewable energy business	Cosmo Eco Power Co.,Ltd , etc.
Other	Cosmo Engineering Co., Ltd., Cosmo Trade & Services Co., Ltd., etc.



Business Outline



Outline of the Cosmo Energy Group

Segment	Petroleum business	Petrochemical business	Oil E&P business	Renewable energy business	Other- Including consolidated adjustment	Total ^{*2}
Net sales ¹	¥2,257.0 billion	¥336.0 billion	¥125.0 billion	¥15.0 billion	¥-183.0 billion	¥2,550.0 billion
Ordinary profit ¹	¥87.0 billion	¥-7.0 billion	¥64.0 billion	¥2.0 billion	¥9.0 billion	¥155.0 billion
Ordinary profit excluding ¹ impact of inventory valuation	¥64.0 billion	¥-7.0 billion	¥64.0 billion	¥2.0 billion	¥9.0 billion	¥132.0 billion
Major assets	 CDU capacity ^{15, 6} 400,000 BD (Domestic market share: Approx. 12.0%) Domestic Sales Volume ¹³ 23,136 thousand KL Number of Service station ¹⁵ 	 Aromatic production capacity *5 Para-xylene 1.360 mil tons/year Benzene 0.735 mil tons/year Mixed-xylene 0.618 mil tons/year 	 Operatorship (self-operation) We produces the largest volume of crude oil in the Middle East region for a Japanese operator. Crude Oil Production ^{*3} Approx. 42 thousand B/D (Comparison with refining 	24 MW		•Corporate brand awareness 96% Survey of 2,000 person aged 16- 69 nationwide by an outside research firm (as of August 2022)
Major business companies related companies	 Cosmo Oil Cosmo Oil Lubricants Gyxis (LPG) Cosmo Oil Marketing Cosmo Oil Sales Cosmo Energy Solutions 	 Maruzen Petrochemical (Chiba/Yokkaichi) Cosmo Matsuyama Oil CM Aromatics (Chiba) HD Hyundai Cosmo Petrochemical (Korea) 	 Cosmo Energy Exploration & Production Abu Dhabi Oil (UAE) Qatar Petroleum Development (Qatar) United Petroleum Development (UAE/Qatar) Cosmo E&P Albahriya (UAE) 	•Cosmo Eco Power (Wind power generation) •CSD solar (Solar power generation)	 Cosmo Engineering Cosmo Trade and Service 	

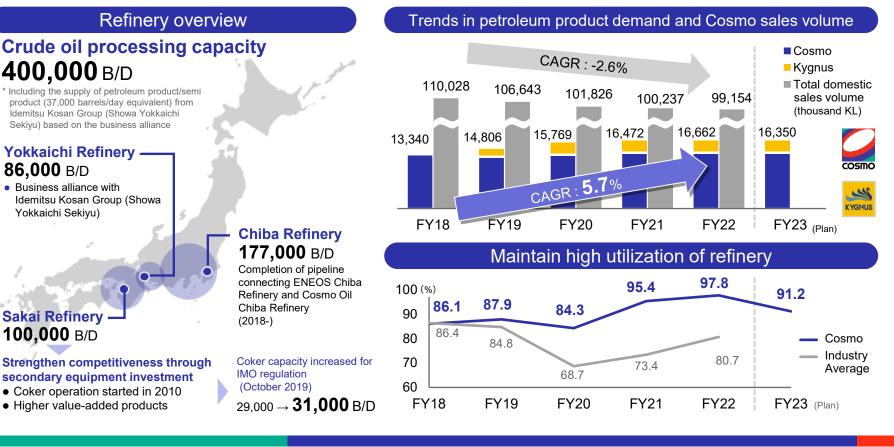
*1 FY2023 Forecast *2 Including consolidated adjustment *3 FY2022 Results *4 As of Dec. 31, 2022 *5 As of Mar. 31, 2023

*6 Including the supply of the petroleum product/semi product (37,000 bbls/day equivalent) from idemitsu kosan group with the business alliance



[Petroleum Business] Overview

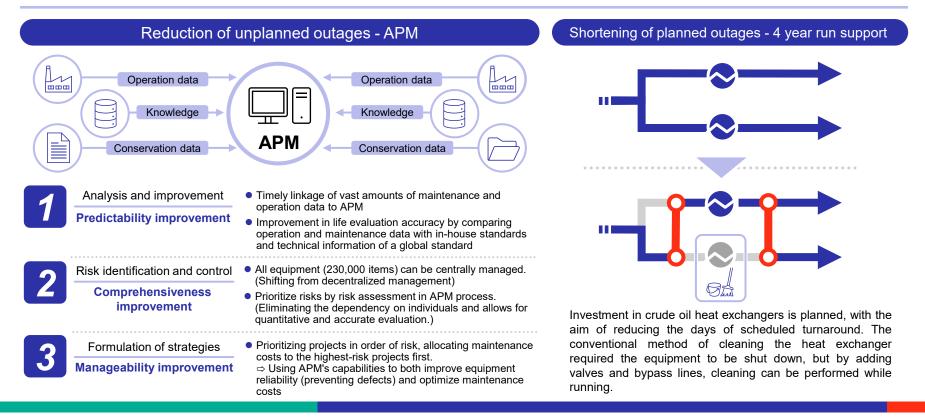
- Safe operations and stable supply at the three refineries located in major metropolitan areas
- With the closure of Sakaide Refinery (FY2013) and the start of fuel oil supply to Kygnus Sekiyu (FY2019), we have established a short position where production is lower than sales volume
- The high refinery utilization rate that has been maintained significantly improved profitability, particularly Petroleum Business



🚰 cosmo

[Petroleum Business] Efforts to Achieve High utilization rate and Efficient Operations at the refineries

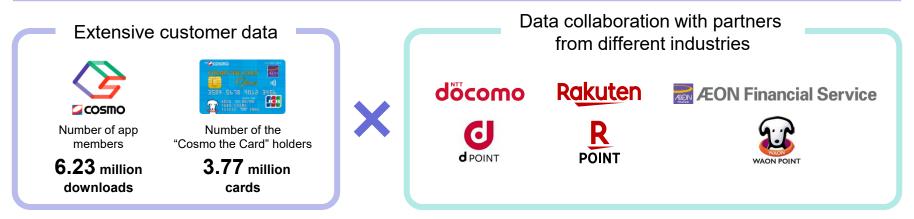
- The source of cash generation is high utilization rate of the refineries. Profitability has grown dramatically as a result of high refinery utilization in the 6th Medium-term Management Plan.
- Started to (i.) reduce unplanned outages (troubles) and (ii.) shorten planned outages (scheduled turnaround) in order to keep refineries operating rate at high level.
 - i. To reduce unplanned outages, the "Asset Performance Management System(APM)" was installed to comprehensively manage and upgrade maintenance strategies. Utilize big data to reduce troubles by improving comprehensiveness, predictability, and manageability, and by optimizing maintenance costs, and improving operational efficiency.
 - ii. In terms of shortening the planned turnaround, we will invest for "a four-year run "at the time of the Chiba Refinery's maintenance in the current fiscal year. That enables to skip the interim maintenance in FY2025



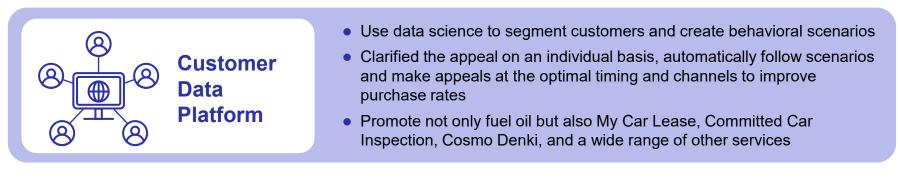


[Petroleum Business] Efficient Sales through Data Science

- Possesses a wealth of customer data, including "Cosmo the Card" and app membership data
- We are able to reach customers more than our own SS shares by linking data with partners in other industries in addition to our own extensive customer data
- High level of profiling, analysis, and dissemination based on unparalleled rich customer data



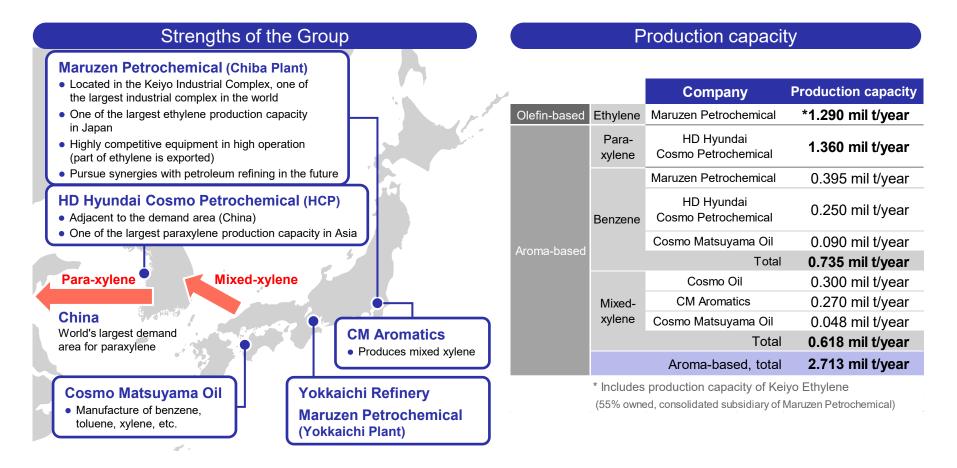
Linkage external data from partners in different industries in addition to basic data accumulated in-house





[Petrochemical Business] Basic Chemicals Overview

- Established an integrated production system in Asia, which is driving global demand
- Cost competitiveness based on the largest ethylene production capacity in Japan (Maruzen Petrochemical)
- Cost competitiveness based on the largest paraxylene production capacity in Asia (HCP)





[Petrochemical Business] Overview of Chemical products and Specialty Chemicals

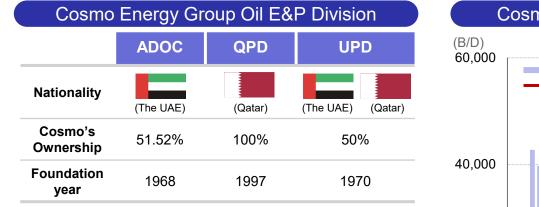
- World-class methyl ethyl ketone(MEK) production capacity (170,000 tons/year). Highly costcompetitive, not only supplying domestic manufacturers but also exporting overseas
- Maruzen Petrochemical boasts the world's top share in polymers for photoresists, a functional chemical used in the semiconductor manufacturing process
- The semiconductor market is likely to continue to grow over the medium to long term, given the expansion of 5G communications, IoT, and artificial intelligence, as well as the expansion of big data and cloud computing
- Polymers for photoresists are products made to order in a developmental type. High barriers to entry due to a lack of alternatives and high quality control requirements



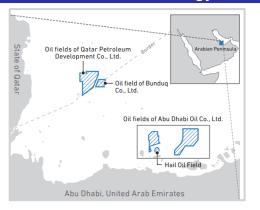


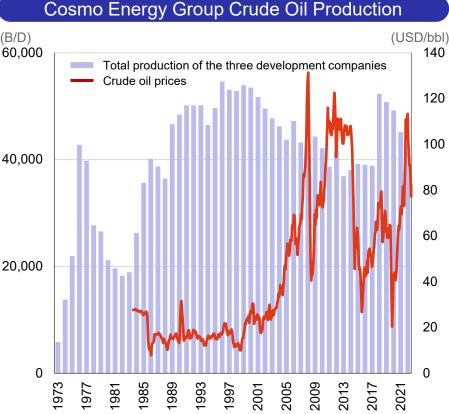
[Oil E&P Business] Overview

- Based on a strong relationship of trust with the Emirate of Abu Dhabi in the Middle East developed over almost five decades, we have achieved low-risk, low-cost development
- Abu Dhabi Oil Company extended concessions (30 years) in 2012 and obtained the Hail Oil Field, which has the same production volume as its three existing oilfields
- Qatar Petroleum Development signed a new agreement in December 2022. Continued operation as an operator



Blocks of the Cosmo Energy Group

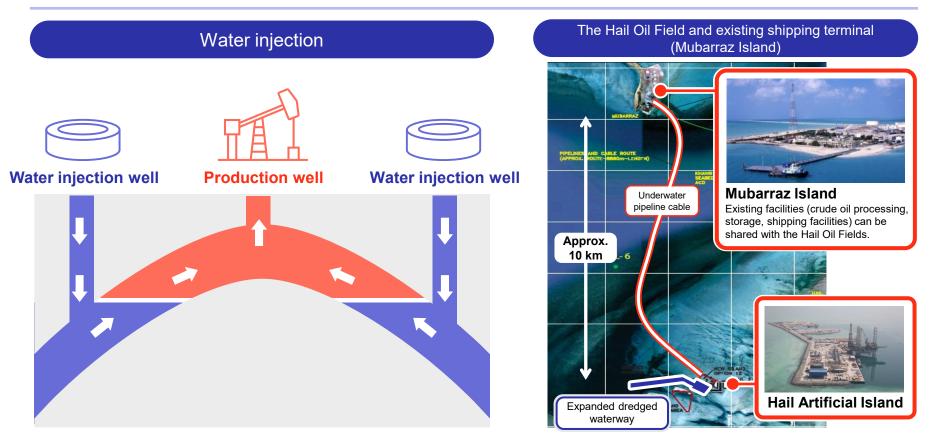






[Oil E&P Business] Secondary recovery investment in the Hail Oil Field

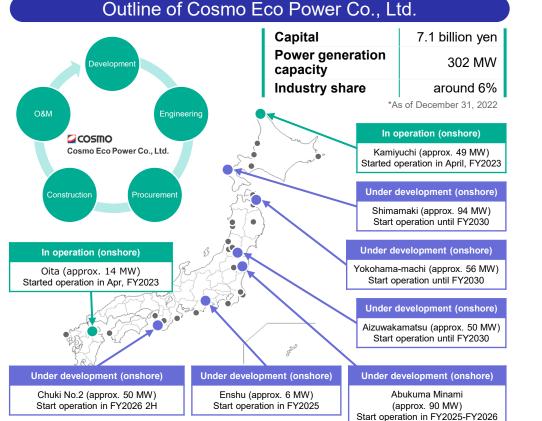
- Production began in FY2017 and reached full capacity in January 2018. Secondary recovery investment (water injection) has been
 underway since FY2019 due to lower reservoir pressure than expected. No change in total estimated production volume from the
 Hail Oil Field
- In addition to crude oil production through natural flow, Oil E&P requires secondary and tertiary recovery, which support natural flow
- Water injection is a method in which water is injected into the reservoir in order to restore low reservoir pressure. Aiming for early recovery of production volume

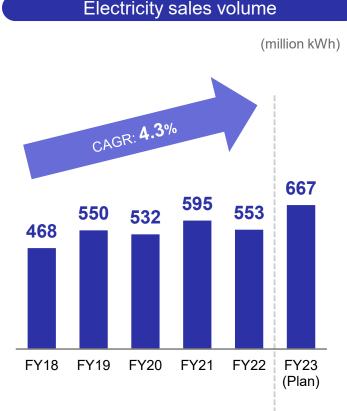




[Renewable Energy Business] Overview

- The Company acquired Eco Power Co., Ltd. (currently Cosmo Eco Power Co., Ltd.), a pioneer in the wind power generation business (established in 1997), as a member of the Cosmo Group in 2010.
- High level of availability (90% or more) achieved by having development, construction, operation, and maintenance performed within the Group
- Aiming for long-term business expansion, participation in offshore site projects in addition to expansion of onshore sites







Disclaimer FORWARD-LOOKING STATEMENTS

Certain statements made and information contained herein constitute "forward-looking information" (within the meaning of applicable Japanese securities legislation). Such statements and information (together, "forward looking statements") relate to future events or the Company's future performance, business prospects or opportunities. Forward-looking statements include, but are not limited to, statements with respect to estimates of reserves and or resources, future production levels, future capital expenditures and their allocation to exploration and development activities, future drilling and other exploration and development activities, ultimate recovery of reserves or resources and dates by which certain areas will be explored, developed or reach expected operating capacity, that are based on forecasts of future results, estimates of amounts not yet determinable and assumptions of management.

All statements other than statements of historical fact may be forward-looking statements. Statements concerning proven and probable reserves and resource estimates may also be deemed to constitute forward-looking statements and reflect conclusions that are based on certain assumptions that the reserves and resources can be economically exploited. Any statements that express or involve discussions with respect to predictions, expectations, beliefs, plans, projections, objectives, assumptions or future events or performance (often, but not always, using words or phrases such as "seek", "anticipate", "plan", "continue", "estimate", "expect, "may", "will", "project", "predict", "potential", "targeting", "intend", "could", "might", "should", "believe" and similar expressions) are not statements of historical fact and may be "forward-looking statements". Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause actual results or events to differ materially from those anticipated in such forward-looking statements.

The Company believes that the expectations reflected in those forward-looking statements are reasonable, but no assurance can be given that these expectations will prove to be correct and such forward-looking statements should not be unduly relied upon. The Company does not intend, and does not assume any obligation, to update these forward looking statements, except as required by applicable laws.

These forward-looking statements involve risks and uncertainties relating to, among other things, changes in oil prices, results of exploration and development activities, uninsured risks, regulatory changes, defects in title, availability of materials and equipment, timeliness of government or other regulatory approvals, actual performance of facilities, availability of financing on reasonable terms, availability of third party service providers, equipment and processes relative to specifications and expectations and unanticipated environmental impacts on operations. Actual results may differ materially from those expressed or implied by such forward-looking statements.

