

Results for the Third Quarter of Fiscal 2023

February 8, 2024

Cosmo Energy Holdings, Co., Ltd.

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3Q FY2023 Results

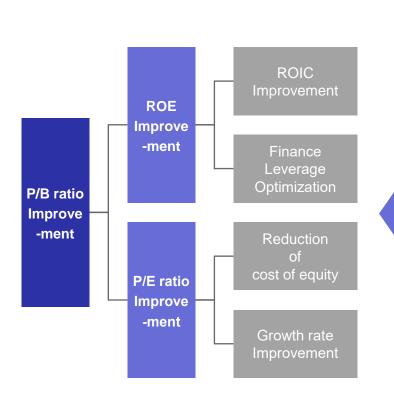


Initiatives to Enhance Enterprise Value



Initiatives to Enhance Enterprise Value

- To improve ROE and P/E ratio based on the basic policies of the Seventh Medium-Term Management Plan to enhance enterprise value.
- Accelerate efforts by expanding initiatives in each policy, aiming to achieve a P/B ratio of 1x or more as soon as possible.



Seventh Medium-Term Management Plan Basic Policies



Secure profitability

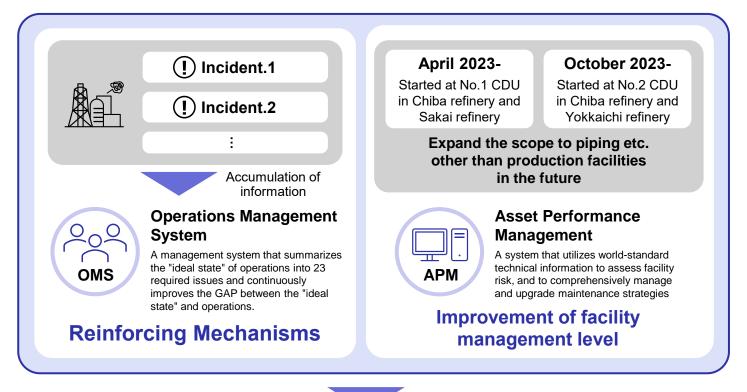
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- Expand new fields to drive growth
 - Progress in Wind Power Generation
 Business
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- Transform management foundation
 - Strengthening the Effectiveness of the Board of Directors



Secure profitability Reduce Unplanned Stoppages

- Strengthen the OMS (Operations Management System) mechanism and expand the scope of APM (Asset Performance Management) by properly analyzing trouble factors.
- Pursue reduction of unplanned stoppages and improve profitability.





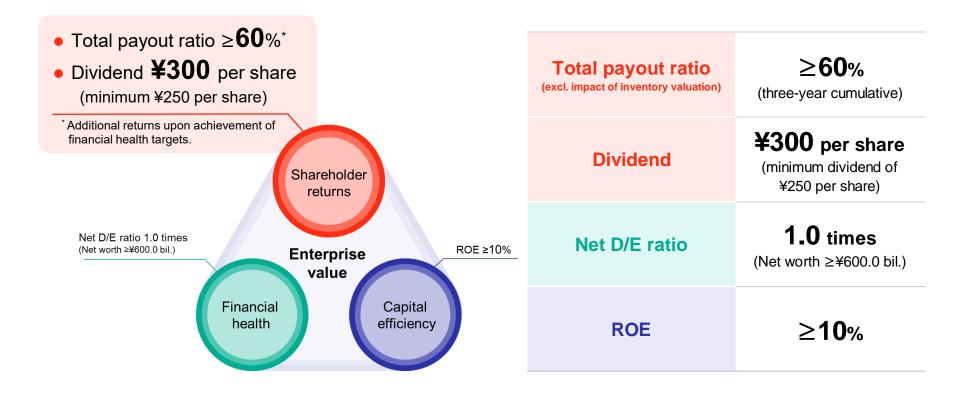
Pursue reduction of unplanned stoppages



Realize three-pronged capital policy Shareholder Return Policy

 Changes in the shareholder composition allow us to adopt a flexible approach to shareholder returns.

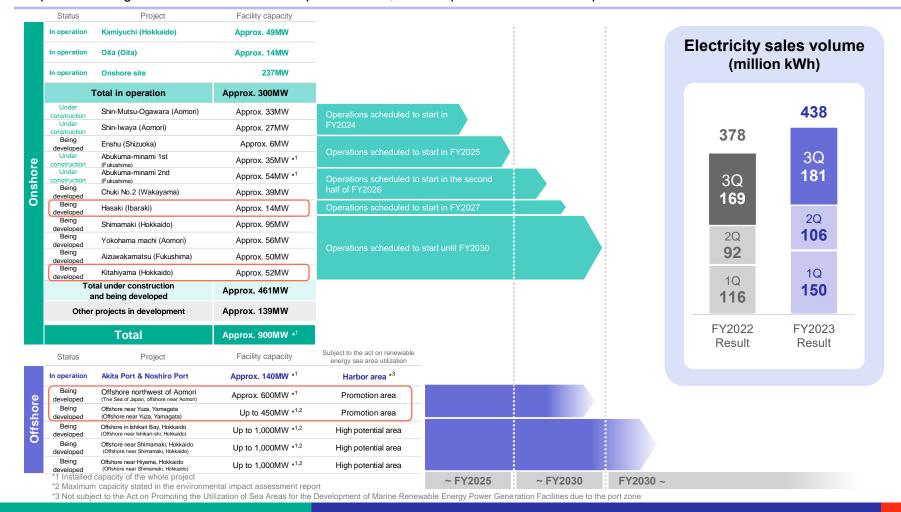
Continue to aim for early shareholder returns.





Expand new fields to drive growth Progress in Wind Power Generation Business

- In onshore wind power generation, Hasaki (FY2027), a replacement project, and Kitahiyama (FY2030), a new construction project, are move up to "being developed".
- Regarding offshore wind power generation, the Sea of Japan offshore near Aomori and offshore near Yuza, Yamagata were published of guidelines for offshore wind public tender, and the public call has been opened.





Expand new fields to drive growth Initiatives for Green Electricity, Next-Generation Energy and SAF

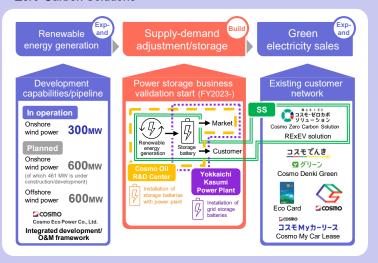
- Maximize the value of the green electricity supply chain by promoting the verification of energy storage business, which will play a key role in the supply-demand adjustment function.
- Collaboration in the hydrogen station field through a JV with Iwatani Corporation for entry into the hydrogen supply chain.
- Steady progress in both construction work and securing raw material suppliers for the mass production of SAF made from waste cooking oil.



Increase green electricity supply chain profit

Commences validation of power storage business

- Started demonstrations at three locations: Yokkaichi Kasumi
 Power Plant, R&D Center, and directly operated service stations
- Acquiring storage battery operation know-how, participating in new electricity market transactions, and expanding into "Cosmo Zero-Carbon Solutions"





Next-generation energy initiatives

Selected as the operator to develop hydrogen stations at two metropolitan-owned sites

- Following Heiwajima, which is currently under construction, the JV has been selected as the operator of two new sites on land owned by the Tokyo Metropolitan Government (in Shinsuna and Ariake Automobile Office)
- We aim to create a market for hydrogen stations for commercial vehicles such as large FC trucks and FC busses





Commence SAF production

Progress made in starting mass production of SAF made from waste cooking oil

- In May 2023, construction of SAF production equipment began at the Sakai Refinery, and is on schedule to start operation by the end of FY2024.
- Steady progress in collaboration with a wide range of industries, including restaurant chains, department stores, airport operators, and railroad operators, toward annual production of 30,000 KL





Transform management foundation Strengthening the Effectiveness of the Board of Directors

- Increased the number of independent outside directors and women directors considering engagement with institutional investors.
- Strengthen the effectiveness of the Board of Directors to sustainably enhance the enterprise value of the Company.

		Director mix (people)	Women director composition (people)
2024	 Number of independent outside directors increased Number of women directors increased 	5 6	7 4
2022	 Appointed a woman executive officer as a director Number of independent outside directors increased Evaluation of ESG efforts introduced in annual incentive remuneration 	5 4	6 3
2021	Number of independent outside directors increasedNumber of women directors increased	7 3	8 2
2019	 TSR standard introduced for medium- to long-term incentive remuneration (2018) Appointed a woman director (Audit and Supervisory Committee Member) 	8 2	9 1
October, 2015	 Formed a holding company structure Shifted to company with an audit and supervisory committee structure Introduced a share-based compensation plan 	8 2	10
		■ Independent outside directors	■ Men ■ Women



Highlights of 3Q FY2023 Results



Highlights of 3Q FY2023 Results

Highlights of 3Q FY2023

- Ordinary profit was ¥113.6 billion and net profit was ¥45.8 billion.
- Ordinary profit excluding the impact of inventory valuation was ¥105.0 billion, and net income
 excluding the impact of inventory valuation was ¥39.8 billion.

Highlights of FY2023 Forecasts

 Forecasts of FY2023 remain unchanged as earnings are generally on par with the November announcement.

					Unit: billion yen
			3Q FY2023	3Q FY2022	Change
			Results	Results	
1	Ordinary profit		113.6	158.7	-45.1
2	(Impact of inventory valuation)		8.6	45.0	-36.4
3	Ordinary profit excluding the	e impact of inventory valuation	105.0	113.7	-8.7
4	Profit attributable to owners	of parent	45.8	62.1	-16.3
5	Profit attributable to owners excluding the impact of inve		39.8	30.6	9.2
6	Dubai crude oil price	(USD/B) (AprDec.)	83	97	-14
7	JPY/USD exchage rate	(yen/USD) (AprDec.)	143	137	6

		3Q FY2023 Results	FY2022 Results	Change
8	Net worth	561.8	527.9	33.9
9	Net worth ratio	24.6%	24.9%	-0.3%
10	Net Debt to Equity Ratio (times)	0.94	1.10	-0.16



3Q FY2023 Results



3Q FY2023 Review

- Consolidated ordinary profit excluding the impact of inventory valuation was ¥105.0 billion(Down ¥8.7 billion year on year).
- Due to the impact of inventory valuation of ¥8.6 billion, consolidated ordinary profit was ¥113.6 billion (Down ¥45.1 billion year on year).
- Net profit was ¥45.8 billion (Down ¥16.3 billion year on year).

Petroleum business

Ordinary profit excluding the impact of inventory valuation

¥ 51.5 billion

(Up ¥20.8 billion year on year)



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

Petrochemical business

Ordinary profit

¥-3.7 billion

(Down ¥10.9 billion year on year)



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

Oil E&P business

Ordinary profit

¥ 49.3 billion

(Down ¥20.1 billion year on year)



Profit decreased due to falling crude oil prices and other factors.

Renewable Energy Business

Ordinary profit

¥ 1.4 billion

(Up ¥0.3 billion year on year)



Profit increased due to improved wind conditions.



[3Q FY2023 Results]

Consolidated Income Statements – Changes from 3Q FY2022

		3Q FY2023 Results	3Q FY2022 Results	Changes	Unit: billion yen FY2023 Forecast
1	Net sales	2,013.2	2,096.1	-82.9	2,550.0
2	Operating profit	101.7	152.9	-51.2	146.0
3	Non-operating income/expenses, net	11.9	5.8	6.1	9.0
4	Ordinary profit	113.6	158.7	-45.1	155.0
5	Extraordinary income/losses, net	-1.3	-4.3	3.0	-3.1
6	Income taxes	60.1	82.1	-22.0	66.4
7	Profit attributable to non-controlling interests	6.3	10.3	-4.0	7.4
8	Profit attributable to owners of parent	45.8	62.1	-16.3	78.0
9	Impact of inventory valuation	8.6	45.0	-36.4	23.0
10	Ordinary profit excluding the impact of inventory valuation	105.0	113.7	-8.7	132.0
11	Dubai crude oil price (USD/B) (AprDec.)	83	97	-14	84
12	JPY/USD exchange rate (yen/USD) (AprDec.)	143	137	6	143
	[Reference]				
13	Dubai crude oil price (USD/B) (JanSep.) (*1)	80	96	-16	82
14	JPY/USD exchange rate (yen/USD) (JanSep.)	138	128	10	140
15	CDU operating ratio (Calendar Day basis) (*2)	84.8%	97.1%	-12.3%	87.5%
16	CDU operating ratio (Streaming Day basis) (*2,3)	93.9%	98.4%	-4.5%	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.

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



⁽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.

[3Q FY2023 Results] Outline of Consolidated Profit by Segment – Changes from 3Q FY2022

Unit: billion yen 3Q FY2023 Results 3Q FY2022 Results Changes Ordinary profit Ordinary profit Ordinary profit Ordinary profit excl. the impact of inventory valuation 113.6 105.0 158.7 -45.1-8.7 Total 113.7 1 60.1 51.5 75.7 30.7 -15.6 20.8 2 Petroleum business -3.7 7.2 -10.9 3 Petrochemical business (By segment) Oil E&P business (*1) 49.3 69.4 -20.11.4 1.1 0.3 5 Renewable energy business

5.3

6.5

Other (*2)



6

1.2

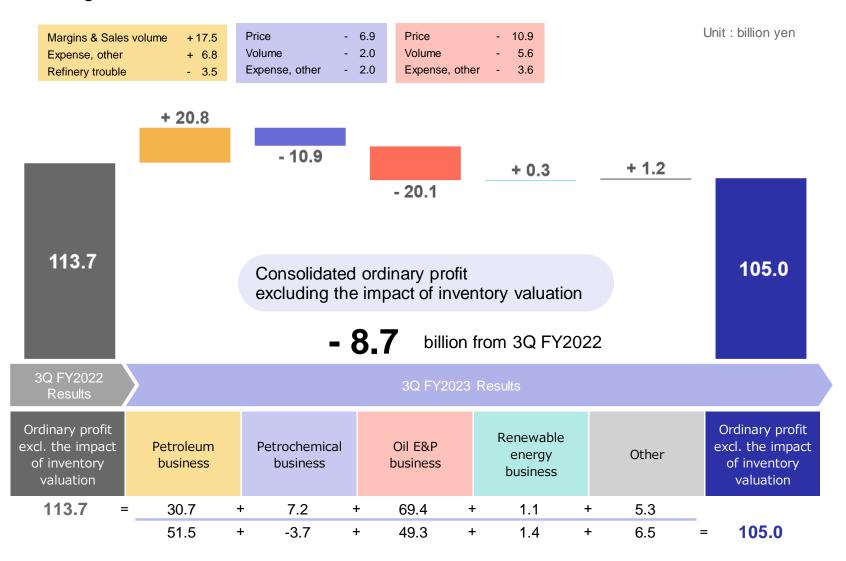
^(*1) The accounting period of three operators (Abu Dhabi Oil Company, Qatar Petroleum Development and United Petroleum Development) is December.

^(*2) Including consolidated adjustment.

[3Q FY2023 Results]

Consolidated Ordinary Profit (excluding the impact of inventory valuation)

- Changes from 3Q FY2022





[FY2023 3Q Results] Outline of Consolidated Balance Sheets

Unit: billion yen

		FY2023 (As of Dec.31, '23)	FY2022 (As of Mar. 31, '23)	Changes
1	Total Assets	2,285.7	2,120.8	164.9
2	Net assets	687.8	663.4	24.4
3	Net worth	561.8	527.9	33.9
4	Net worth ratio	24.6%	24.9%	-0.3%
5	Net interest-bearing debt *1	529.0	581.9	-52.9
6	Net Debt to Equity Ratio (times)	0.94	1.10	-0.16

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



[FY2023 3Q Results] Overview of Consolidated Capital Expenditures

Capital Expenditures & Depreciations, etc.

			Unit: billion yen
		3Q FY2023 Results	Changes from 3Q FY2022
1	Capital expenditures	53.8	12.2
2	Depreciation expense amount, etc	41.2	-2.2

Capital Expenditures by Segment

				Unit: billion yen
		3Q FY2023 Results	3Q FY2022 Results	Changes
1	Petroleum	28.5	12.9	15.6
2	Petrochemical	6.1	7.6	-1.5
3	Oil E&P	13.3	9.7	3.6
4	Renewable energy	6.3	11.7	-5.4
5	Other, adjustment	-0.4	-0.3	-0.1
6	Total	53.8	41.6	12.2
7	Investment securities, etc*	19.6	8.3	11.3

^{*} 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

[3Q FY2023 Results] Supplementary Information

- Sales volume, CDU operating ratios
- Crude oil production volume, Crude reserves estimate (Proved and probable)
- Results by segment Changes from 3Q FY2022

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- Major data of each business
- Historical changes in Dubai crude oil price
- Historical changes of gasoline export and margin (Domestic and overseas)
- Historical changes of diesel fuel export and margin (Domestic and overseas)
- Petrochemical market (Ethylene, Paraxylene, Benzene, and Mixed xylene)

[Forecast for FY2023 Performance] (Announced in November 2023)

Highlights of Consolidated Business Outlook (Changes from FY2022),
 Precondition and Business Sensitivities

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Outlook by Segment (Change from FY2022)

Outline of the Cosmo Energy Group (Business Outline)

 Petroleum Business, Petrochemical Business, Oil E&P Business, and Renewable Energy Business P. 34-43



Supplementary Information of 3Q FY2023 Results



[FY2023 3Q Results] Sales volume, CDU operating ratios

Unit: thousand KL FY2023 3Q FY2023 3Q FY2022 FY2023 forecast Changes changes from Results Results **Forecast** FY2022 1 5,516 5,443 101.3% 7,236 100.4% Gasoline 1.128 1,198 94.2% 2,032 97.8% Kerosene 3 Diesel fuel 4,266 99.2% 4,300 5,664 99.3% 4 Heavy fuel oil A 1,158 1,178 98.3% 1,615 97.2% Selling volume Four-Total 12,068 99.6% 12,119 16,547 99.4% in Japan 6 Naphtha 3,453 3,896 88.6% 5,253 100.9% 7 Jet fuel 293 409 71.6% 464 91.3% 8 Heavy fuel oil C 579 100.2% 97.3% 578 750 9 Sub-Total 16,393 99.5% 17,002 96.4% 23,015 10 Middle distillates Export 383 52.0% 250 11 121.2% Bonded products and other 2.392 1,973 2,844 107.6% 12 Export volume 1,481 1,144 129.4% 1,826 117.2% incl. Jet fuel 13 incl. Low-sulfur C fuel oil 368 635 57.9% 504 60.1% 14 Sub-Total 2.392 2.356 101.5% 3.094 99.0%

18,785

19,358

97.0%

			3Q FY2023 Results	3Q FY2022 Results	Changes
16	CDU operating ratio	(Calendar Day basis) *1	84.8%	97.1%	-12.3%
17	CDO operating ratio	(Streaming Day basis) *1,2	93.9%	98.4%	-4.5%

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



15

Total

20

99.4%

26,109

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

[FY2023 3Q Results] Crude oil production volume, Crude reserves estimate (Proved and Probable)

Crude oil production volume 3Q FY2023 Results Cosmo Energy Exploration & Production Co., Ltd. (B/D) 3Q FY2023 Results Changes 42,311 -5,961 85.9%

- * 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 or	Dec 31, 2022)	
		mmbls	
	Total Proved *2 and Probable Reserves *3	133.0	
	(Ref.: Reserves to Production Ratio of Total Proved and Probable Reserves)	about 17years	Note: The daily average crude production based on working interest reached 21 thousands bpd for FY2022 (Jan-Dec).

(*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 for the development of Qatar 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 3Q Results] Results by Segment - Changes from 3Q FY2022

FY2023 3Q Results - Changes from 3Q FY2022

Unit: billion ye	r
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		Net sales		Operatir	ng profit	Ordina	ry profit		y profit ne impact of valuation)
		Results	Changes from 3Q FY2022	Results	Changes from 3Q FY2022	Results	Changes from 3Q FY2022	Results	Changes from 3Q FY2022
1	Petroleum business	1,796.7	-38.7	53.6	-23.1	60.1	-15.6	51.5	20.8
2	Petrochemical business	264.9	-82.2	-1.6	-10.0	-3.7	-10.9	-3.7	-10.9
3	Oil E&P business	84.1	-17.0	41.8	-18.0	49.3	-20.1	49.3	-20.1
4	Renewable energy business	9.7	1.3	1.0	0.2	1.4	0.3	1.4	0.3
5	Other, adjustment	-142.2	53.7	6.9	-0.3	6.5	1.2	6.5	1.2
6	Total	2,013.2	-82.9	101.7	-51.2	113.6	-45.1	105.0	-8.7

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 3Q Results] Major data of each business

	(1) Refinery Operating Ratio								
		FY2018	FY2019	FY2020	FY2021	FY2022	3Q FY2023		
	CDU operating ratio (Calender Day basis) *1	86.1%	87.9%	84.3%	95.4%	97.8%	84.8%		
	(2) Number of SSs by Operator Ty	уре							
		FY2018	FY2019	FY2020	FY2021	FY2022	3Q FY2023		
	Subsidiary *2	888	876	877	872	880	873		
Petroleum	Dealers	1,903	1,879	1,852	1,823	1,769	1,745		
business	Total *3	2,791	2,755	2,729	2,695	2,649	2,618		
	Number of Self-Service SSs *3	1,048	1,072	1,099	1,112	1,121	1,128		
	(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	3Q FY2023		
	Cosmo The Card (million cards) *3	4.33	4.21	4.12	4.03	3.84	3.65		
	My car lease (Units) *3	60,579	73,634	85,126	96,214	108,104	116,141		
	Carlife Square (million downloads) *3		2.02	3.44	4.72	5.95	6.90		
	Crude oil production volume								
Oil E&P		FY2018	FY2019	FY2020	FY2021	FY2022	3Q FY2023		
business	Cosmo Energy E&P Co., Ltd. (B/D) *4,5	52,303	50,773	49,208	45,157	42,430	36,350		
	Wind power plant capacity(ten the	ousand kW)							
Renewable	, , , , , , , , , , , , , , , , , , , ,	FY2018	FY2019	FY2020	FY2021	FY2022	3Q FY2023		
3 energy business	Plant Capacity (MW) *3	227	266	261	300	247	312		
Dusii iess	Electricity sales volume (million kWh)	468	550	532	595	553	438		

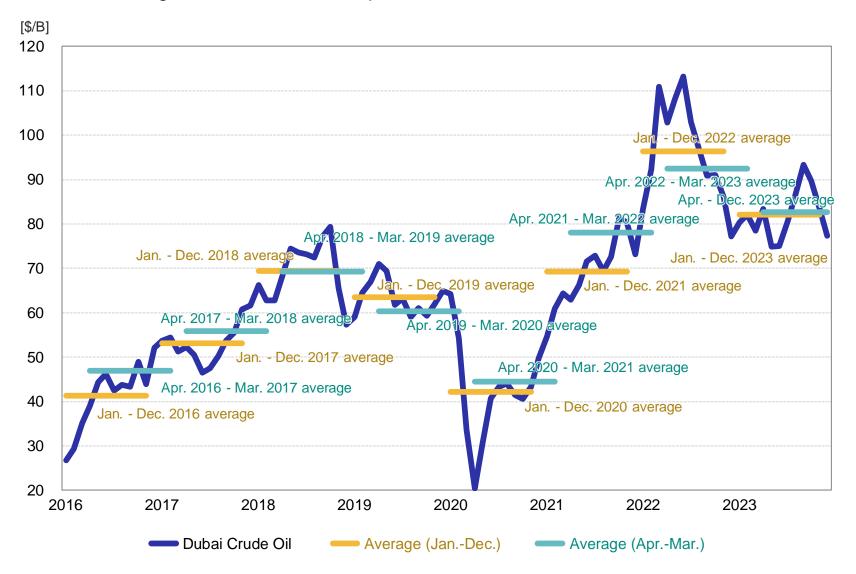
^{*1} April-March results for each fiscal year, *2 Directly operated SS and our wholly owned subsidiaries' dealer SS,



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

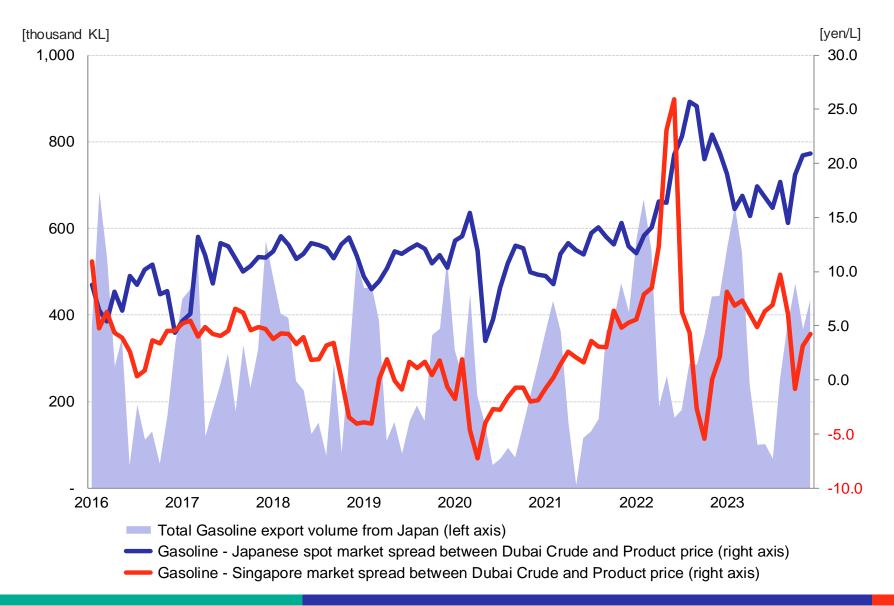
^{*5} From FY2018 to FY2022: Total production volume of Abu Dhabi Oil Co., Ltd., Qatar Petroleum Development Co., Ltd.and United Petroleum Development Co., Ltd. From FY2023: Total production volume of Abu Dhabi Oil Co., Ltd., and United Petroleum Development Co., Ltd.

Historical changes in Dubai crude oil price



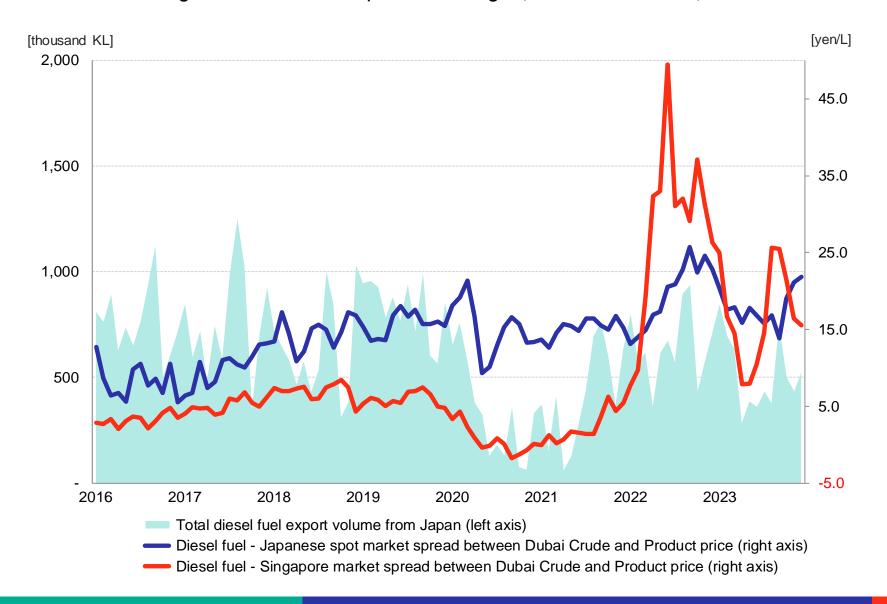


Historical changes of gasoline export and margin (Domestic and Overseas)



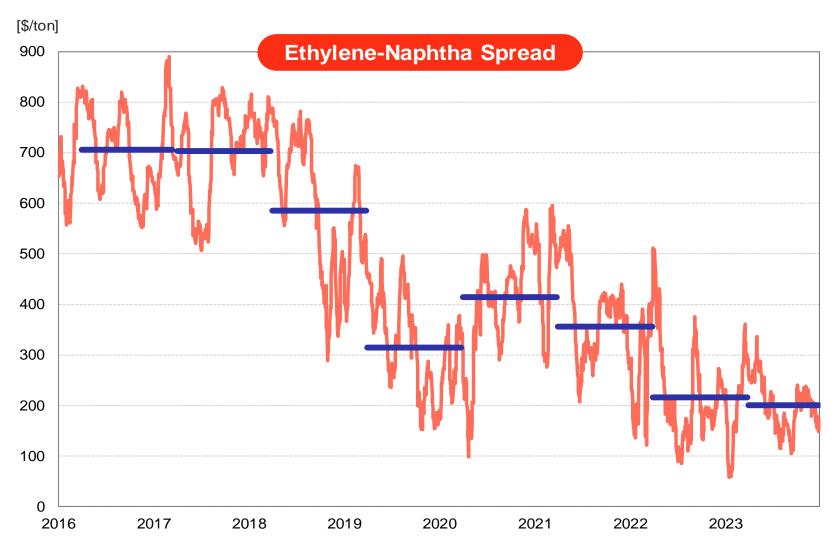


Historical changes of diesel fuel export and margin (Domestic and Overseas)





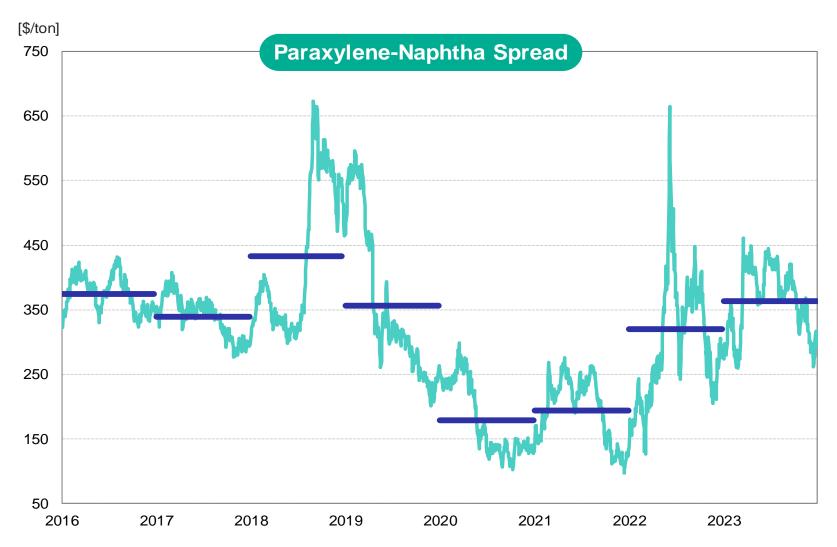
Market conditions for Ethylene



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



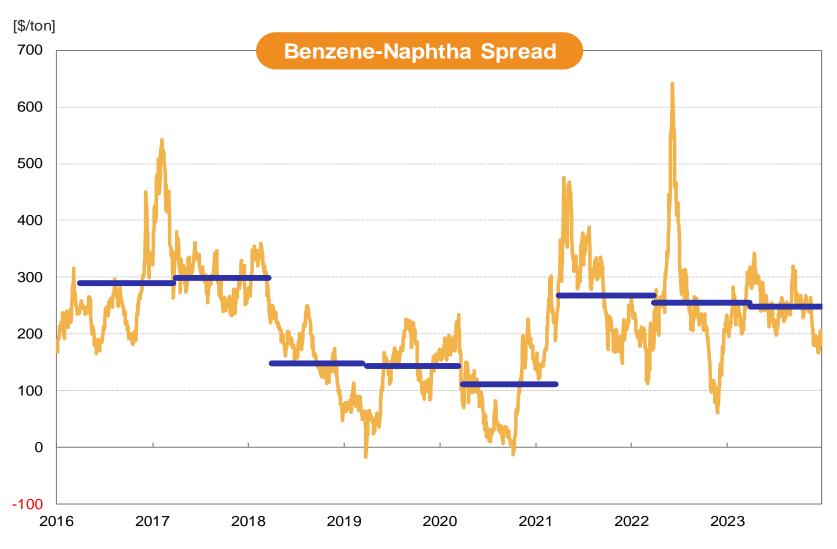
Market conditions for Paraxylene



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



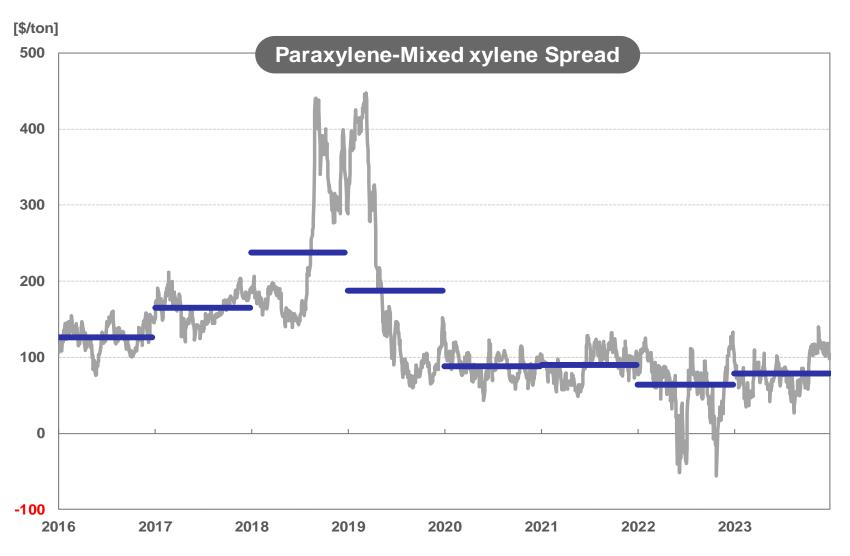
Market conditions for Benzene



*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 (Jan-Dec.).



Forecast for FY2023 Performance (Announced in November 2023)



[FY2023 Forecast]

Outlook (Changes from FY2022) Precondition and business sensitivity

								nit : 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	1 Total		155.0	132.0	164.5	142.9	-9.5	-10.9	
2	2	Petroleum business	87.0	64.0	65.7	44.1	21.3	19.9	
3	segment)	Petrochemical business	-7.0		3.8		-10.8		
4	egn	Oil E&P business *1	64.0		84.5		-20.5		
5	(By s	Renewable energy business		2.0	2.6		-0.6		
6			9.0		7.9		1.1		
7	7 Impact of inventory valuation		23.0		21.6		3.0 21.6 1.		1.4
8	8 Profit attributable to owners of parent		78.0		67.9		10.1		
9		fit attributable to owners of parent excluding the vact of inventory valuation *3	62.0 52.8		52.8		9.2		

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

^{*3} Calculated after deducting 30% as tax equivalent for the impact of inventory valuation.

			FY2023	3 Forecast		Y2022 Resu	lts	Changes	
10 Dividend per Share (Plan) (yen)		¥300			¥150		+ ¥150		
■ P	recondition	FY2023 Forecast	FY2022 Results	Changes	■ S	ensitivity		Crude oil (Dubai)	JPY/USD exchange rate
11	Dubai crude oil price (USD/B) (AprMar.)	84	93	-9	15	Petroleum	Inventory Impact	+3.0 billion yen	+1.8 billion yen
12	JPY/USD exchange rate (AprMar.)	143	135	8	16	Business	Refinery fuel cost etc	-0.5 billion yen	-0.3 billion yen
13	Dubai crude oil price (USD/B) (JanDec.)	82	95	-13	17		Total	+2.5 billion yen	+1.5 billion yen
14	JPY/USD exchange rate (JanDec.)	140	131	9	18	Oil E&P Busi	ness	_	_

^(*) 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.



Linit · hillion van

^{*2} Including consolidated adjustment

⁽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.

^(*) 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] Outlook by Segment - Changes from FY2022

FY2023 Forecast – Changes from FY2022

Unit: billion yen

		Net :	sales	Operatiı	ng profit	Ordina	ry profit		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 saleš¹	¥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 "5, 6 400,000 BD (Domestic market share: Approx. 12.0%) Domestic Sales Volume "3 23,136 thousand KL Number of Service station "5 2,649 Number of the "Cosmo the Card" Holders "5 3.84 million cards Carlife Square apps. "5 5.95 million downloads Car leasing business for individuals "5 Cumulative total 108,104 cars	Aromatic production capacity *5 Para-xylene 1.360 mil tons/year Benzene 0.735 mil tons/year Mixed-xylene 0.618 mil tons/year	(Comparison with refining	24 MW		Corporate brand awareness 96% COSINO * 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	

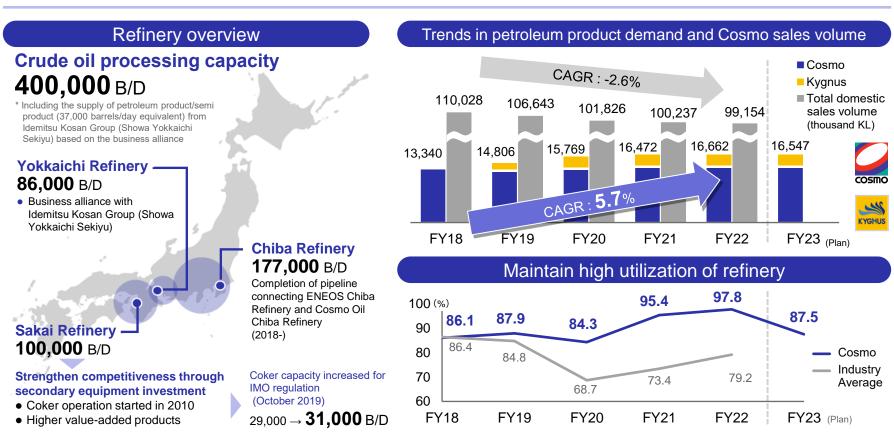
^{*1} FY2023 Forecast *2 Including consolidated adjustment *3 FY2022 Results *4 As of Dec. 31, 2022 *5 As of Mar. 31, 2023



^{*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



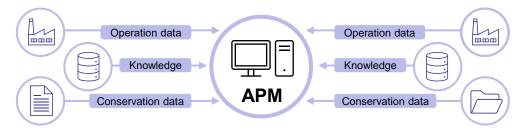


[Petroleum Business]

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

Reduction of unplanned outages - APM



- Analysis and improvement

 Predictability improvement
- Timely linkage of vast amounts of maintenance and operation data to APM
- Improvement in life evaluation accuracy by comparing operation and maintenance data with in-house standards and technical information of a global standard
- Risk identification and control

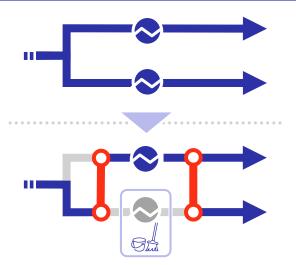
 Comprehensiveness

improvement

- All equipment (230,000 items) can be centrally managed. (Shifting from decentralized management)
- Prioritize risks by risk assessment in APM process. (Eliminating the dependency on individuals and allows for quantitative and accurate evaluation.)
- Formulation of strategies

 Manageability improvement
- Prioritizing projects in order of risk, allocating maintenance costs to the highest-risk projects first.
 Lising APM's capabilities to both improve equipment
- ⇒ Using APM's capabilities to both improve equipment reliability (preventing defects) and optimize maintenance costs

Shortening of planned outages - 4 year run support



Investment in crude oil heat exchangers is planned, with the aim of reducing the days of scheduled turnaround. The conventional method of cleaning the heat exchanger required the equipment to be shut down, but by adding valves and bypass lines, cleaning can be performed while running.



[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



- Use data science to segment customers and create behavioral scenarios
- Clarified the appeal on an individual basis, automatically follow scenarios and make appeals at the optimal timing and channels to improve purchase rates
- Promote not only fuel oil but also My Car Lease, Committed Car Inspection, Cosmo Denki, and a wide range of other services



[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)

Strengths of the Group **Maruzen Petrochemical (Chiba Plant)** · Located in the Keiyo Industrial Complex, one of the largest industrial complex in the world One of the largest ethylene production capacity in Japan • Highly competitive equipment in high operation (part of ethylene is exported) • Pursue synergies with petroleum refining in the future **HD Hyundai Cosmo Petrochemical (HCP)** Adjacent to the demand area (China) • One of the largest paraxylene production capacity in Asia Para-xylene Mixed-xylene China World's largest demand **CM Aromatics** area for paraxylene Produces mixed xylene Cosmo Matsuyama Oil Yokkaichi Refinery Manufacture of benzene. **Maruzen Petrochemical** toluene, xylene, etc. (Yokkaichi Plant)

Production capacity

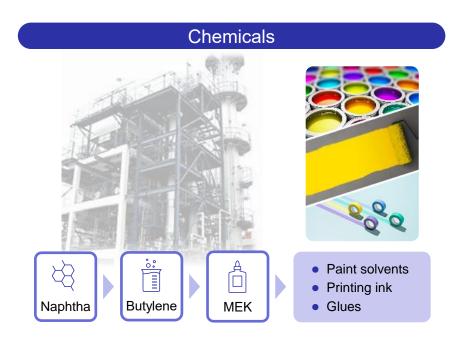
		Company	Production capacity
Olefin-based	Ethylene	Maruzen Petrochemical	*1.290 mil t/year
	Para- xylene	HD Hyundai Cosmo Petrochemical	1.360 mil t/year
	Benzene	Maruzen Petrochemical	0.395 mil t/year
		HD Hyundai Cosmo Petrochemical	0.250 mil t/year
Aroma-based		Cosmo Matsuyama Oil	0.090 mil t/year
Aloma-based		Total	0.735 mil t/year
		Cosmo Oil	0.300 mil t/year
	Mixed-	CM Aromatics	0.270 mil t/year
	xylene	Cosmo Matsuyama Oil	0.048 mil t/year
		Total	0.618 mil t/year
		Aroma-based, total	2.713 mil t/year

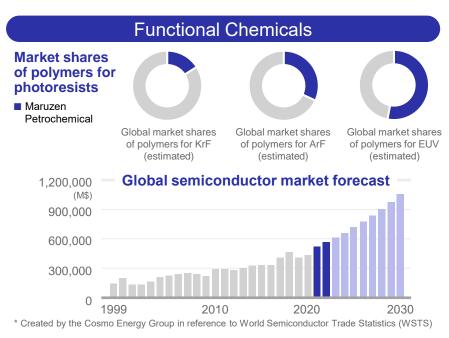
^{*} Includes production capacity of Keiyo Ethylene (55% owned, consolidated subsidiary of Maruzen Petrochemical)



[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





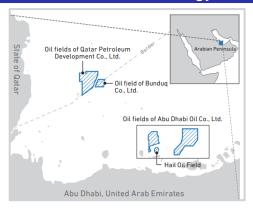


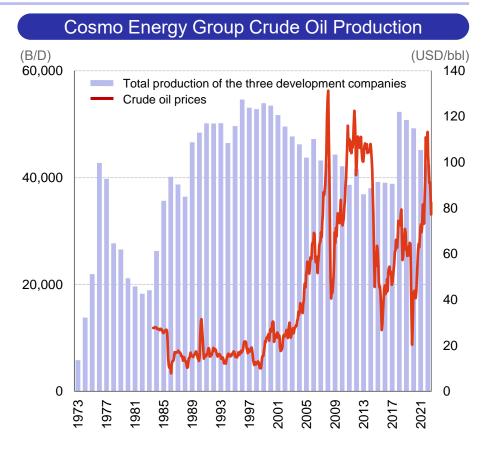
[Oil E&P Business] Overview

- 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

Cosmo Energy Group Oil E&P Division **ADOC UPD QPD Nationality** (The UAE) (Qatar) (The UAE) (Qatar) Cosmo's 51.52% 100% 50% **Ownership Foundation** 1968 1997 1970 year

Blocks of the Cosmo Energy Group

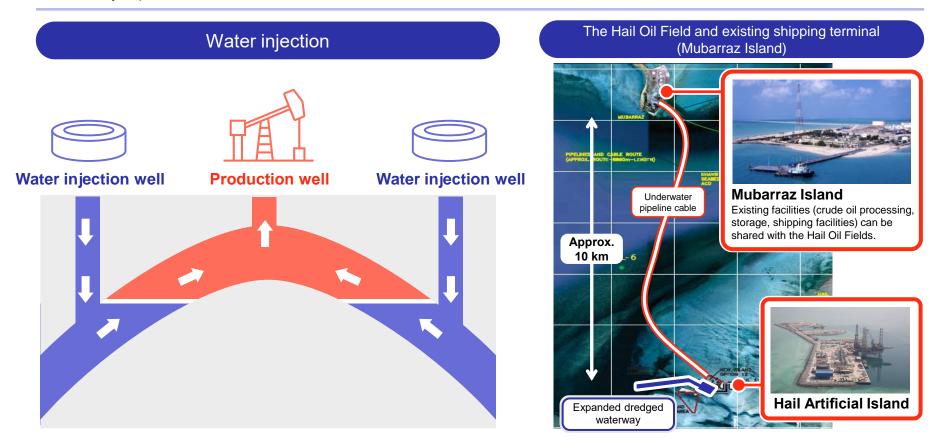






[Oil E&P Business] Secondary recovery investment in the Hail Oil Field

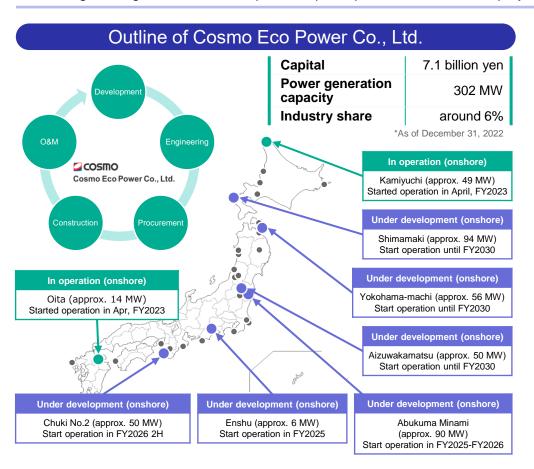
- Production began in FY2017 and reached full capacity in January 2018. Secondary recovery investment (water injection) has been
 underway since FY2019 due to lower reservoir pressure than expected. No change in total estimated production volume from the
 Hail Oil Field
- In addition to crude oil production 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

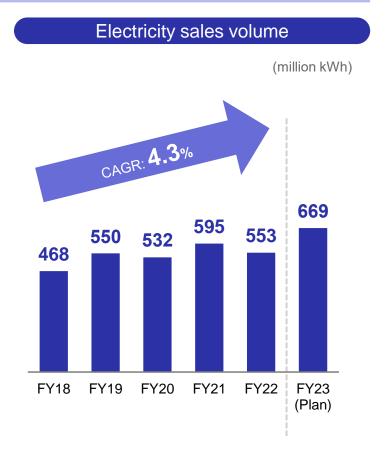




[Renewable Energy Business] Overview

- 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







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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.

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