

Presentation on Results for the 2nd Quarter FY2023

November 14, 2023 Idemitsu Kosan Co.,Ltd.

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Initiatives aimed at enhancing corporate and equity value

-Action to Implement Management that is Conscious of Cost of Capital And Stock Price-



To Improve Corporate Value and Equity Value

FY25 ROE target revised upward to "≥ 10%" Reduce cost of capital to rapidly achieve PBR ≥ 1.0

Further accelerate medium-term plan initiatives

Business strategy

- Promote structural reforms
- ➤ Further enhance earnings from existing businesses and capital efficiency
- > Transform business and reduce GHG through expansion of new businesses

Capital/financial strategy

- Promote capital/ financial strategy to enhance return on capital
- Enhance shareholder returns

Expand the shareholder/investor base and improve communication



Upward Revision of the FY25 ROE Target

FY25 ROE target:

At the medium-term plan announcement (11/2022)	Current revision
8.0%	≥10%

Reason for the upward revision

✓ Considering both necessity for further improvement of return on capital from existing businesses and the cost of capital expected by the market; ROE ≥ 10% must be achieved

■ Direction of efforts aimed at achieving "ROE ≥ 10%":

- 1. Further enhance earnings and capital efficiency from existing businesses
 - Petroleum: Increase capacity utilization at refineries, increase earnings from overseas, reduce capital investments, etc.
 - Functional materials: Leverage M&A, etc. to expand growing businesses
 - Businesses facing challenges: Achieve stable profits of NSRP and power/renewable energy segment
- 2. Implement capital/financial strategy to enhance profitability
 - Pursue optimal financing balance, taking business risk, credit ratings, return on capital, etc.
 - Improve shareholder returns (next slide)



Review of the Shareholder Returns Policy

Current

- ✓ Total payout ratio of at least 50% of cumulative net income excluding inventory impact in FY23-25
- ✓ Provide stable dividends of ¥120/share

Stronger focus on return on capital and shareholder return

Revised

- ✓ Total payout ratio of at least 50% of cumulative net income excluding inventory impact in FY23-25
 - Dividends: Increase to ¥160/share and set this as the minimum
 - Acquisition of treasury shares: Execute in a flexible manner while monitoring the stock price

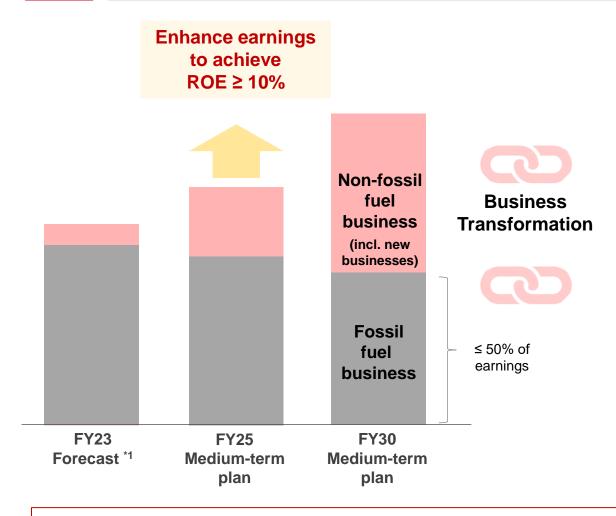
Shareholder returns in FY2023

- Dividends: ¥160/share
- Acquisition of treasury shares: ¥35 billion

(total payout ratio of around 50% in FY23 single)



Reduce Cost of Capital through Business Transformation



Transition to decarbonized businesses

Achieve GHG reduction targets
Convert "quality" of profits

Transition to growing businesses

Expand new businesses Leverage M&A

Change in the earning structure

Reduce earnings volatility from market fluctuations

Achieve carbon neutrality, profit growth, and a stable earning structure through business transformation while also pursuing lower cost of capital

Major Progress towards Business Transformation

Adapt to needs for CN of fossil fuel

Hydrogen/ Ammonia

Collaboration on supply chain establishment (Tosoh, Tokuyama, Zeon, JERA, KEPCO)

Biofuel (SAF, etc.)

Collaboration on security and procurement of feedstock



Synthetic Fuel

Production/Procurement

(J-OIL MILLS , LOPS)

-study on practical application and diffusion in Japan (Saudi Aramco, HIF Global, HEPCO, JAPEX)

Our key strengths

- location of production and transportation
- production technologies
- overseas trading network
- SS network
- domestic sales network





Enter electrification/EV value chain

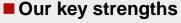
Solid electrolytes

Collaboration on development of highperformance materials and scale-up production of all-solid-state lithium-ion batteries



Investment in mine exploration companies and projects

(Delta Lithium [lithium], Vecco [vanadium])



- Mine development know-how
- Research technologies
- SS network





Achieve social implementation and commercialization by taking advantage of Idemitsu's existing assets and through domestic and foreign partnerships



Towards the Achievement of GHG Reduction Targets (New Scope 3 Indicator)

- ✓ Aiming to reduce emission throughout the supply chain through business transformation
- ✓ A new indicator "carbon intensity" will be used to set targets and promote further initiatives

[Formula]

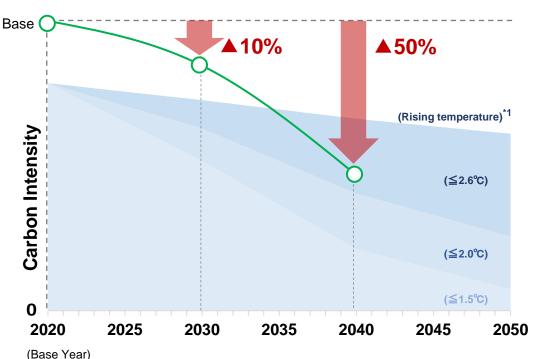
Carbon CO₂ emissions (Scope

Carbon Intensity = $\frac{\text{CO}_2 \text{ emissions (Scope1+2+3)}^{*1}}{\text{Volume of energy supplied}}$

[Target - vs. 2020]

2030: -10%

2040: -50%



[Social Implementation Themes and Expected Business Size]

Theme	Units	2030	2040
Hydrogen/ammonia	0000 tons	100	400
SAF/biofuel/synthetic fuel	0000 KL	50	250
Mixing non-fossil fuels into gasoline*2	%	10 *2	20
Idemitsu Green Energy Pellet	0000 tons	300	300~
Planting, CCS, etc.	0000 tons	100	700

^{*}To be revised as needed based on progress in investment screening for business structure reforms, etc.



^{*1:} The area graph above shows degree of low carbon society based on IEA's scenario(company estimate)

Expand the Shareholder/Investor Base and Improve Communication

Stock split

The stock split will be implemented to increase shareholders who identify with our group's medium-to-long-term strategy by reducing the share price and making it easier to invest in our stock

Minimum Record date: 12/31/2023 1:5 ~¥70,000 *1 **Split ratio:** Effective date: 1/1/2024 investment:

Increase from ¥24 to ¥32/share for annual dividend after the stock split and set this as the minimum FY 2023 Good Disclosure Company

(increase from ¥120 to ¥160/post-split share and set this as the minimum)

- Increase opportunities for dialogue with the capital markets and information disclosures
 - ✓ We were ranked the 1st of the energy sector in good disclosure company. selected by the Securities Analyst Association of Japan
 - ✓ We will continue to increase the quality and quantity of disclosures
- Created shareholder website "Idemitsu Connect"
 - Created as a platform for individual shareholders to learn about and connect more with Idemitsu
 - Planning the following events

conline live events featuring the president, site tours, shareholder perks lottery system, etc.



Idemitsu Connect

Shareholders' website

Highlights



Results for the 2Q FY2023

Summary

- ✓ Operating + equity income (segment income) decreased by ¥163.1 billion yo-y, due to reversal of inventory impact resulting from increased crude oil prices in the previous fiscal year, etc.
- ✓ Segment income excluding inventory impact increased by ¥28.4 billion, as the positive impact of time-lag in the petroleum business, etc. offset the negative impact of mine size reductions in the coal business and the decrease in coal prices in reaction to the sharp rise observed in the previous year

[¥ billions]

	2Q FY2022	2Q FY2023	Change
Operating Income + Equity Income	374.3	211.2	(163.1)
Inventory impact	208.2	16.7	\/
Exc. inventory impact	166.2	194.6	+28.4
Net Income Attributable to Owners of the Parent	280.8	164.9	(115.9)
Exc. inventory impact	136.4	153.4	+17.0



Revision of Forecasts for FY2023

Overview

✓ Revised forecasts upward to reflect changes in the external environment such as increased crude oil prices and further JPY depreciation

[¥ billions]

	5/9 Forecast	Revised Forecasts	Change
Operating Income + Equity Income	155	265	+110
Inventory impact	(30)	45	+75
Exc. inventory impact	185	220	+35
Net Income Attributable to Owners of the Parent	100	180	+80
Exc. inventory impact	120	150	+30

Shareholder returns (dividends and acquisition of treasury shares)

- ✓ Increased the FY23 dividend forecast from ¥120/share to ¥160/year (interim: ¥80, FY end: ¥80*1) in light of the change in shareholder return policy
- ✓ Acquiring treasury shares of ¥35 billion based on the revised FY23 earnings forecast
- ✓ As a result, we expect the total payout ratio to exceed 50% in FY23

■Results for the 2Q FY2023

Key Topics

Trends in Petroleum Demand and Sales

- ✓ Demand for core products, particularly gasoline, has stabilized after recovery from reduction under COVID-19
- ✓ Jet fuel demand has remained on a recovery trend since FY2020

	FY2020	FY2021	FY2022	2Q FY2023
Core products	94.6%	98.6%	100.9%	98.0%
Gasoline	90.4%	99.6%	101.3%	98.5%
Jet fuel	54.2%	126.0%	136.8%	108.3%

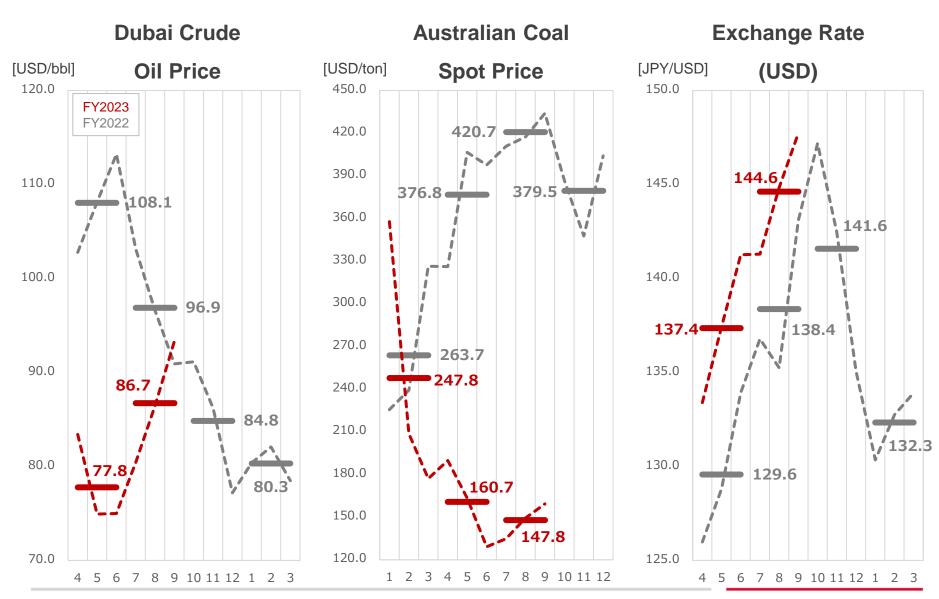
^{*}Idemitsu sales growth rate (y-o-y)

Situation of Nghi Son Refinery in Vietnam

- ✓ Almost break-even at the operating profit level in 1H; forecasting positive profits for the full fiscal year
- ✓ Regular maintenance was completed as planned; anticipating earnings improvement in the next fiscal year due to enhanced productivity, etc.
- ✓ Continuing constructive discussions between sponsors to pursue further earnings improvement



Operating Environment



Overview

Crude Oil/Coal/Exchange Rate

[USD/bbl, USD/ton, JPY/USD]

	2Q FY2022	2Q FY2023	Cha	nge
Crude Oil (Dubai)	102.5	82.3	(20.2)	(19.7%)
Crude Oil (Brent)*	107.6	79.8	(27.8)	(25.8%)
Australian Coal Spot Price*	320.3	204.3	(116.0)	(36.2%)
Exchange Rate (TTM)	134.0	141.0	+7.0	+5.2%

^{*}Brent prices and Australian coal spot prices are averages based on the calendar year (Jan-Jun).

Consolidated Income Statement(Summary)

[¥ billions]

	2Q FY2022	2Q FY2023	Cha	nge
Net Sales	4,814.1	4,024.5	(789.6)	(16.4%)
Operating Income	354.1	202.9	(151.2)	(42.7%)
Inventory impact	208.2	16.7	(191.5)	(92.0%)
Equity Income	20.3	8.3	(11.9)	(58.9%)
Operating Income + Equity Income	374.3	211.2	(163.1)	(43.6%)
Excluding inventory impact	166.2	194.6	+28.4	+17.1%
Ordinary Income	381.2	226.5	(154.8)	(40.6%)
Extraordinary Income/Losses	17.4	1.3	(16.0)	(92.2%)
Net Income Attributable to Owners of the Parent	280.8	164.9	(115.9)	(41.3%)
Excluding inventory impact	136.4	153.4	+17.0	+12.5%

^{*}Gross average method of inventory valuation

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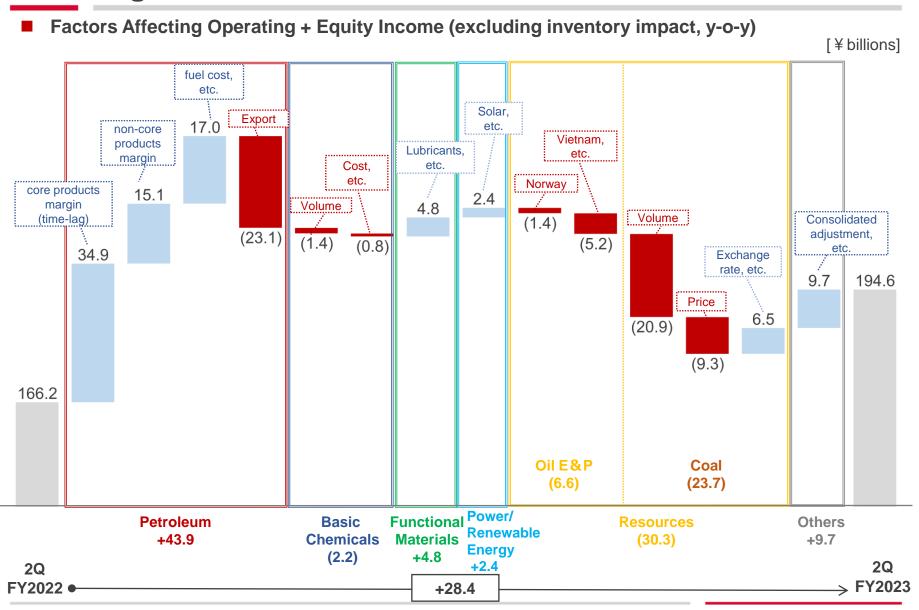
■ Operating + Equity Income

[¥ billions]

	2Q FY2022	2Q FY2023	Cha	nge
Petroleum	269.3	121.7	(147.6)	(54.8%)
Excluding inventory impact	61.1	105.0	+43.9	+71.9%
Basic Chemicals	14.2	12.0	(2.2)	(15.3%)
Functional Materials	8.6	13.4	+4.8	+55.9%
Power and Renewable Energy	(2.9)	(0.4)	+2.4	-
Resources*	100.1	69.8	(30.3)	(30.3%)
Oil Exploration and Production	17.1	10.5	(6.6)	(38.6%)
Coal	83.0	59.3	(23.7)	(28.5%)
Others/Reconciliation	(14.9)	(5.2)	+9.7	1
Total	374.3	211.2	(163.1)	(43.6%)
Excluding inventory impact	166.2	194.6	+28.4	+17.1%

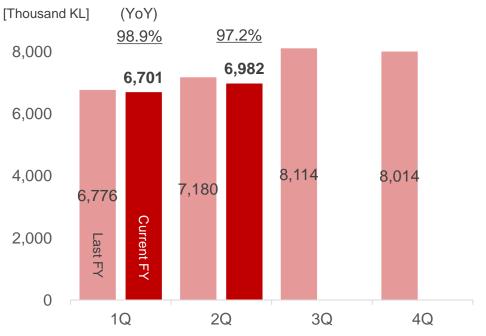
^{*}Fiscal year for Coal Oil E&P and Coal included in the Resources Segment end in Dec.





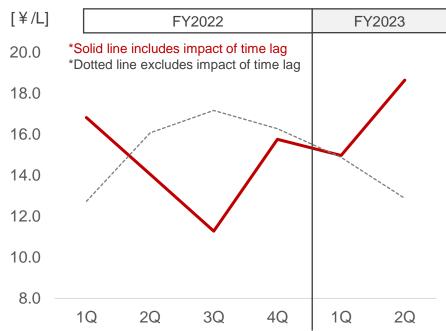
[Petroleum] YoY+¥43.9 (2Q FY22 : ¥61.1bn → 2Q FY23 : ¥105.0bn)

[Y-o-y change in Petroleum sales volume (core products)]



[Trends in Domestic Petroleum Product Margin*]

*Average margin of gasoline, diesel oil, kerosene, and heavy oil A (domestic spot –crude oil)



- ✓ Profit increased as a result of improved domestic core product margins due to positive time-lag, improved non-core product margins and a decrease in fuel costs, etc.
- ✓ The above was partially offset by a decrease in export volume due to regular maintenance



[Basic Chemicals] YoY-¥2.2bn (2Q FY22: ¥14.2bn → 2Q FY23: ¥12.0bn)

- ✓ Decreased as a result of sales volume reduction and cost increase due to shut down maintenance
- ✓ Product margin was unchanged in total

[USD/ton]

Product	2Q FY22		2Q FY23		Cha	nge
	Price	Margin	Price	Margin	Price	Margin
PX	1,174	379	1,051	427	(122)	+48
MX	1,103	308	957	333	(145)	+25
SM	1,295	500	1,030	406	(265)	(95)

[Functional Materials] YoY+¥4.8bn (2Q FY22: ¥8.6bn → 2Q FY23: ¥13.4bn)

- ✓ Lubricants: Increased due to reversal of negative time-lag impact from the previous FY
- ✓ Performance chemicals: Decreased due to reversal of soaring market prices in some products in the previous FY
- ✓ Electronic materials: Decreased due to reduced sales volume resulting from current weak demand for Smartphones and OLED-TVs

[Power/Renewable Energy] YoY+¥2.4bn (2Q FY22: -¥2.9bn → 2Q FY23: -¥0.4bn)

- ✓ Power: Improved mainly due to initiatives towards sales within self generation
- ✓ Solar: Improved due to cost reductions based on structural reforms and sales expansion of solar panels for self-consumption model



[Oil E&P] YoY -¥6.6 bn

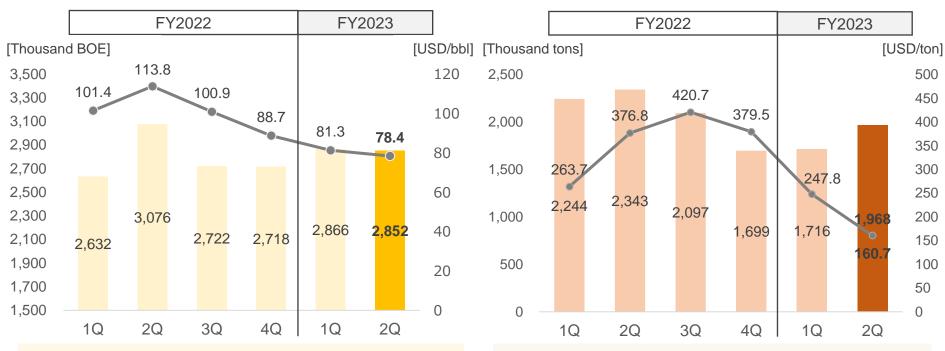
(2Q FY22 : ¥17.1bn → 2Q FY23 : ¥10.5 bn)

[Coal] YoY -¥23.7 bn

(2Q FY22 : ¥83.0bn → 2Q FY23 : ¥59.3 bn)

<Crude Oil Production Volume and Brent Crude Oil Price Trends>

<Coal Production Volume and Australian Coal Spot Price Trends>



- ✓ Production volume remained flat y-o-y
- ✓ Profit decreased due to a fall in crude oil prices and to cost-related factors
- * Figures reflect share of rights owned in resource development affiliates
- * Revised errors in Vietnam FY22 and FY23 1Q figures



[✓] Profit fell due to a decrease in production volume following a size reduction of mines as well as the reversal of the strong market conditions seen in the previous FY

^{*} Terminated mining at Muswellbrook mines in March 2023

Balance Sheet

[¥ billions]

	3/31/2023	9/30/2023	Change		3/31/2023	9/30/2023	Change
Cash and Deposits	105.2	173.1	+67.9	Total Current Liabilities	2,164.0	2,317.4	+153.4
Receivables, Inventory, etc.	2,626.9	2,826.3	+199.4	Total Fixed Liabilities	1,072.1	1,055.9	(16.2)
Total Current Assets	2,732.1	2,999.4	+267.3	Total Liabilities	3,236.1	3,373.3	+137.2
Tangible Fixed Assets	1,390.0	1,390.2	+0.2	Shareholders' Equity and Other Comprehensive Income	1,614.5	1,767.3	+152.8
Other Fixed Assets	743.3	764.8	+21.5	Noncontrolling Interests	14.8	13.7	(1.0)
Total Fixed Assets	2,133.3	2,155.0	+21.7	Total Net Assets	1,629.3	1,781.1	+151.7
Total Assets	4,865.4	5,154.3	+288.9	Total Liabilities and Net Assets	4,865.4	5,154.3	+288.9

Net D/E ratio	0.87	0.75	(0.12)
Total Interest- bearing debt	1,503.4	1,495.2	(8.2)
Equity ratio	33.2%	34.3%	+1.1%



Statement of Cash Flows

[¥ billions]

Ca	sh Flow from Operating Activities	206.9		
	Net Income before tax	227.8		
	Depreciation Expense	53.7		
	Change in Working Capital	(115.5)		
	Other	40.9		
Ca	sh Flow from Investing Activities	(58.2)		
	Purchase of tangible fixed assets	(40.0)		
	Other	(18.2)		
Ca	Cash Flow from Financing Activities			
	Change in borrowings	(30.4)		
	Dividend payments and share buyback	(49.8)		
	Other	(4.2)		
Tra	Translation gains/losses			
Cha	67.6			
Cas	Cash and Cash Equivalents - Beginning Balance			
Cas	Cash and Cash Equivalents - Ending Balance			



Forecasts for FY2023

Forecasts for FY2023

Crude Oil/Coal/Exchange Rate

[USD/bbl, USD/ton, JPY/USD]

	5/9 Forecasts	Revised Forecasts	Change		Assumptions (from Oct.)
Crude Oil (Dubai)	80.0	83.6	+3.6	+4.5%	85.0
Crude Oil (Brent)*	85.0	83.2	(1.8)	(2.1%)	86.5
Australian Coal Spot Price *	170.0	175.3	+5.3	+3.1%	145.0
Exchange Rate (TTM)	130.0	140.5	+10.5	+8.1%	140.0

^{*}Brent prices and Australian coal spot prices are averages based on the calendar year (Jan-Dec).

Consolidated Income Statement(Summary)

[¥ billions]

	5/9 Forecasts	Revised Forecasts	Change	
Net Sales	8,300.0	8,650.0	+350.0	+4.2%
Operating Income	140.0	250.0	+110.0	+78.6%
Inventory impact	(30.0)	45.0	+75.0	_
Equity Income	15.0	15.0		_
Operating Income + Equity Income	155.0	265.0	+110.0	+71.0%
Excluding inventory impact	185.0	220.0	+35.0	+18.9%
Ordinary Income	150.0	270.0	+120.0	+80.0%
Extraordinary Income/Losses	(8.0)	(17.0)	(9.0)	_
Net Income Attributable to Owners of the Parent	100.0	180.0	+80.0	+80.0%
Excluding inventory impact	120.0	150.0	+30.0	+25.0%

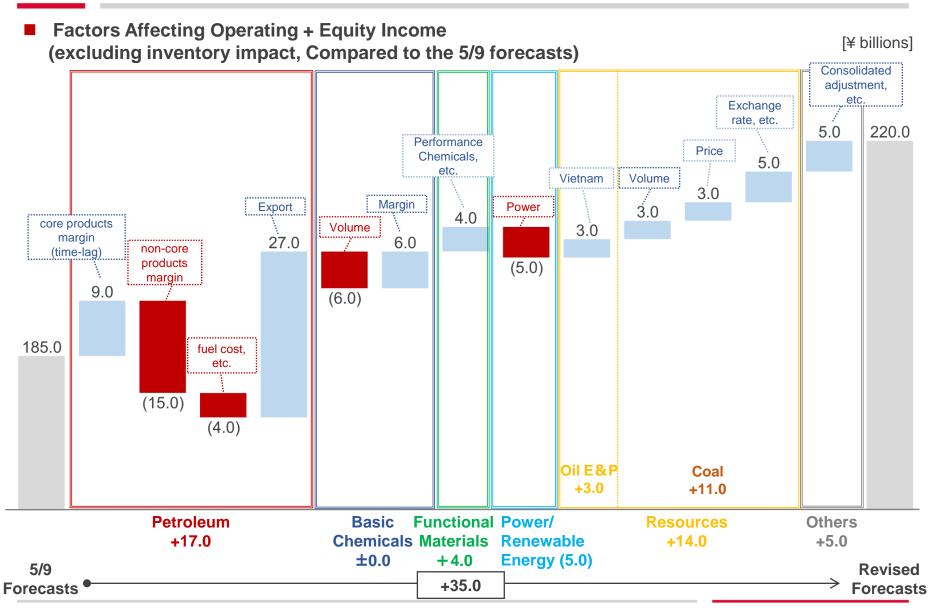
■ Operating + Equity Income

[¥ billions]

	5/9 Forecasts	Revised Forecasts	Change	
Petroleum	43.0	135.0	+92.0	+214.0%
Excluding inventory impact	73.0	90.0	+17.0	+23.3%
Basic Chemicals	21.0	21.0	_	_
Functional Materials	19.0	23.0	+4.0	+21.0%
Power and Renewable Energy	0.0	(5.0)	(5.0)	_
Resources*	95.0	109.0	+14.0	+14.7%
Oil Exploration and Production	13.0	16.0	+3.0	+23.1%
Coal	82.0	93.0	+11.0	+13.4%
Others/Reconciliation	(23.0)	(18.0)	5.0	_
Total	155.0	265.0	+110.0	+71.0%
Excluding inventory impact	185.0	220.0	+35.0	+18.9%

^{*}Fiscal year for Oil E&P and Coal included in the Resources Segment end in Dec.





[Petroleum] +¥17 bn (5/9 announcement: ¥73 bn → revised forecast: ¥90 bn)

- ✓ Revised upward to reflect improved export margins, positive time-lag effects resulting from a rise in crude oil prices, etc.
- ✓ A fall in non-core product margins and increased fuel costs partially offset by improvements in the overseas trading business

[Basic Chemicals] ±¥0 (5/9 announcement: ¥21 bn → revised forecast: ¥21 bn)

✓ Decline in sales volume due to sluggish demand for olefin and other derivatives offset by a recovery in the aroma market price [USD/ton]

Product	5/9 Announcement		Current	Forecast	Change	
	Price	Margin	Price	Margin	Price	Margin
PX	960	290	980	330	+20	+40
MX	870	200	890	240	+20	+40
SM	1,090	420	1,060	410	(30)	(10)

[Functional Materials] +¥4 bn (5/9 announcement: ¥19 bn → revised forecast: ¥23 bn)

- ✓ Functional chemicals: Revised upward to reflect price increases, etc.
- ✓ Asphalt: Revised downward due to increased raw material cost such as heavy oil fractions
- ✓ Lubricants: No change, with a volume decrease offset by cost reductions, etc.



[Power/Renewable Energy] -¥5 bn (5/9 announcement: ¥0 → revised forecast: -¥5 bn)

- ✓ Power business: Factored by the decrease in generated power volume due to an extension of the regular power plant maintenance period and reflected risk of a profit decrease in wholesale resulting from a fall in market prices
- ✓ Solar business: No change
- ✓ Sold Kunitomi Plant, which used to manufacture solar panels, anticipating cost reduction effects in the next fiscal year

[Oil E&P] +¥3 bn (5/9 announcement: ¥13 bn → revised forecast: ¥16 bn)

✓ Revised upward due to increased production volume in Vietnam as well as JPY depreciation, etc.

[Coal] +¥11 bn (5/9 announcement: ¥82 bn → revised forecast: ¥93 bn)

✓ Revised upward due to JPY depreciation as well as production volume increase at Ensham coal mine, etc.



Progress on the Medium-Term Plan

*The icons on topics (from next page) related to progress in the medium-term plan shows business areas below



Energy one step ahead



Diverse resource conservation /circulation solutions



Smart Yorozuya



Topics Affecting Progress on the Medium-term Plan (1/4)

- Commenced cooperation toward mass production of all-solid-state batteries for BEVs with Toyota
- H₂ NH3
- ✓ Working together in developing mass production technology of solid electrolytes, improving productivity and establishing a supply chain
- 合権回
- Seeking the successful commercialization of all-solid-state batteries in 2027-28, followed by full-scale mass production



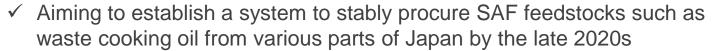
Picture of joint press conference

(Link to our disclosure document) https://www.idemitsu.com/en/content/100043691.pdf

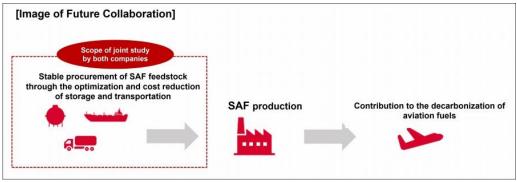


Topics Affecting Progress on the Medium-term Plan (2/4)

Commenced joint study with LOPS on SAF feedstock procurement







(Link to our disclosure document)

https://www.idemitsu.com/en/news/2023/230824.html

Commenced joint study with PETRONAS on SAF supply chains

- A feasibility study to scale-up bio feedstock possibilities including cost analyses
- Also focusing on supply potential of non-edible oil feedstock trees such as Pongamia and Jatropha

(Link to our disclosure document)

https://www.idemitsu.com/en/content/100043647.pdf



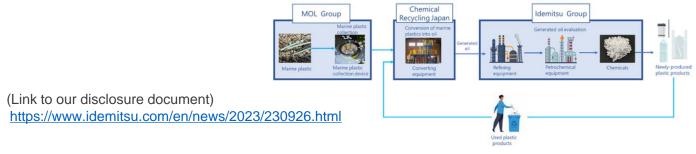
MOU signing ceremony





Topics Affecting Progress on the Medium-term Plan (3/4)

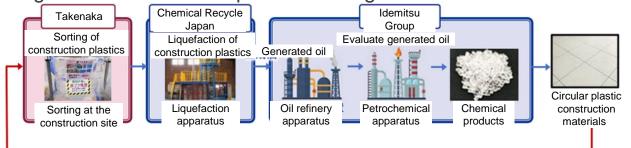
- Launched demonstration test on recycling marine plastic waste with Mitsui O.S.K. Lines
- ✓ To utilize marine plastic wastes using an automated marine debris collection device
- ✓ Aiming to produce generated oil by the technology of recycling of used plastics into oil.



 Launched demonstration test on recycling of used plastic construction waste with Takenaka Corporation



✓ Aiming to produce oil generated from used plastics arising at construction sites



(Link to our disclosure document, Japanese only)

https://www.idemitsu.com/jp/news/2023/231031 2.html



Topics Affecting Progress on the Medium-term Plan (4/4)

■ Withdrawal from the Bisphenol A business

- ✓ The business environment has deteriorated owing to an oversupply caused by the expansion of facilities in Asia
- ✓ Planning to stop operating the manufacturing equipment at Chiba Complex by October 2024

(Link to our disclosure document) https://www.idemitsu.com/en/news/2023/231025.html

■ Sales of former Kunitomi plant of Solar Frontier

- ✓ Terminated panel production in June 2022
- ✓ Completed sales of the plant in November 2023 for an effective use of idle assets in accordance with business structure reforms
- ✓ Enhancing growth strategy as a next-generation systems integrator



Investments

[¥ billions]

	FY23 1H Results			FY23 Forecast *unchanged from 5/9 announcement		
	Strategic	Maintenance	Total	Strategic	Maintenance	Total
Existing Businesses	5.5	40.6	46.1	53.0	102.0	155.0
Business Structure Reforms	8.6	0	8.6	87.0	0.0	87.0
Total	14.1	40.6	54.7	140.0	102.0	242.0

^{*} Amounts based on expenditures

[Strategic Investments]

- ✓ Investment in Delta Lithium, an Australia-based lithium exploration company as a main item for 1H Results
- ✓ Planning to invest business structure reforms amounting 3-year total of ¥290 billion set forth in the medium-term plan
- ✓ Selecting investment items through screening that secures investment return from a wide variety of options like SAF, hydrogen/ammonia, Recycling used plastics in addition to what we have tackled since the previous medium-term plan such as Lithium Solid Electrolytes and Idemitsu Green Energy Pellets.



■Reference



Financial Results

■ Net Sales by segment

[¥ billions]

	2Q FY2022	2Q FY2023	Cha	nge
Petroleum	3,814.1	3,189.1	(625.0)	(16.4%)
Basic Chemicals	363.0	280.2	(82.8)	(22.8%)
Functional Materials	245.6	248.4	+2.8	+1.1%
Power and Renewable Energy	89.8	72.1	(17.7)	(19.7%)
Resources*	300.3	233.3	(67.0)	(22.3%)
Oil Exploration and Production	22.2	21.8	(0.5)	(2.1%)
Coal	278.1	211.5	(66.5)	(23.9%)
Others/Reconciliation	1.3	1.4	+0.1	+8.3%
Total	4,814.1	4,024.5	(789.6)	(16.4%)

^{*}Fiscal year for Oil E&P and Coal included in the Resources Segment end in Dec.



Financial Results

■ Quarterly segment income (cumulative, exc. inventory impact)

[¥ billions]

		FY2	022		FY2023	
	1Q	2Q	3Q	4Q	1Q	2Q
Petroleum	57.4	61.1	1.2	17.3	18.4	105.0
Equity income	7.0	12.4	12.8	12.9	4.9	3.8
Basic Chemicals	8.1	14.2	11.4	10.1	(1.4)	12.0
Equity income	(0.1)	(0.1)	0.5	(0.1)	(0.6)	(1.0)
Functional Materials	3.3	8.6	16.4	17.0	5.5	13.4
Equity income	0.0	0.3	(0.3)	(0.7)	(0.2)	(0.1)
Power and Renewable Energy	(3.7)	(2.9)	1.1	0.5	(0.5)	(0.4)
Equity income	(0.4)	(0.7)	(0.4)	(1.6)	0.3	0.3
Resources						
-Oil Exploration and Production	6.5	17.1	26.4	32.8	5.7	10.5
Equity income	2.9	6.7	10.6	13.7	3.5	5.3
-Coal	25.1	83.0	151.3	198.1	34.7	59.3
Equity income	_	_	_	_	(0.0)	(0.0)
Others/Reconciliation	(11.9)	(14.9)	(22.5)	(23.0)	(5.1)	(5.2)
Equity income	1.1	1.7	1.7	1.8	0.0	0.0
Total	84.9	166.2	185.4	252.7	57.4	194.6
Equity income	10.5	20.3	25.0	26.0	7.8	8.3



Financial Results

■ Quarterly segment income (Q on Q, exc. inventory impact)

[¥ billions]

		FY2	022		FY2023	
	1Q	2Q	3Q	4Q	1Q	2Q
Petroleum	57.4	3.7	(59.9)	16.1	18.4	86.6
Equity income	7.0	5.4	0.4	0.1	4.9	(1.0)
Basic Chemicals	8.1	6.1	(2.8)	(1.3)	(1.4)	13.4
Equity income	(0.1)	(0.0)	0.6	(0.6)	(0.6)	(0.4)
Functional Materials	3.3	5.3	7.8	0.6	5.5	7.8
Equity income	0.0	0.3	(0.6)	(0.4)	(0.2)	0.1
Power and Renewable Energy	(3.7)	0.8	4.0	(0.7)	(0.5)	0.1
Equity income	(0.4)	(0.3)	0.3	(1.2)	0.3	0.0
Resources						
-Oil Exploration and Production	6.5	10.5	9.3	6.4	5.7	4.8
Equity income	2.9	3.8	3.9	3.1	3.5	1.8
-Coal	25.1	57.8	68.4	46.8	34.7	24.6
Equity income	_	_	_		(0.0)	(0.0)
Others/Reconciliation	(11.9)	(3.0)	(7.7)	(0.5)	(5.1)	(0.1)
Equity income	1.1	0.6	0.1	0.0	0.0	0.0
Total	84.9	81.3	19.2	67.3	57.4	137.1
Equity income	10.5	9.8	4.7	1.0	7.8	0.5



Sensitivity

Major items affecting operating profit by changes in assumptions (3-4Q)

	Assumption Items	Revised assumption (from Oct.)	Range of fluctuation	Segment	Income impact (¥ billions)	Major Factors
	Crude oil price	85.0\$/bbl	±10\$/bbl		±15.0	Fuel cost, time-lag
Excluding	Singapore product margin	I	±5\$/bbl	Petroleum	±22.0	Export
inventory impact	Exchange rate	140.0¥/\$	±5¥/\$		±5.0	Fuel cost, time-lag
	Thermal coal price	145.0\$/t	±10\$/t	Resources (Coal)	±1.0	Thermal coal
Inventory	Crude oil price	85.0\$/bbl	±10\$/bbl	Potroloum	±37.0	
impact	Exchange rate	140.0¥/\$	±5¥/\$	Petroleum	±11.0	

^{*} In the petroleum segment, only performance impacts on products made in domestic refineries are shown. In addition to the above, income will also be affected by sales of overseas affiliates

^{* 3-}month impact during shown for the resources segment (coal), as its fiscal year ends in Dec.



Sales Volume

Petroleum

[thousand KL,%]

	2Q FY2022	2Q FY2023	Cha	nge
Gasoline	6,640	6,537	(103)	(1.5%)
Naphtha	190	192	+2	+0.8%
Jet Fuel	1,149	1,244	+95	+8.3%
Kerosene	826	750	(75)	(9.1%)
Diesel Oil	5,096	5,028	(69)	(1.3%)
Heavy Fuel Oil A	1,394	1,368	(26)	(1.9%)
Heavy Fuel Oil C	1,267	1,159	(108)	(8.5%)
Total Domestic Sales Volume	16,562	16,278	(284)	(1.7%)
Exported Volume	4,167	3,067	(1,100)	(26.4%)
Total Sales Volume	20,729	19,345	(1,384)	(6.7%)

^{*}Export includes bond sales of jet fuel and heavy fuel oil C



Sales Volume

■ Basic Chemicals

[kt,%]

	2Q FY2022	2Q FY2023	Change	
Basic Chemicals	1,709	1,617	(91)	(5.3%)

■ Functional Materials

[KKL,kt,%]

	2Q FY2022	2Q FY2023	Change	
Lubricants	577	565	(12)	(2.0%)
Performance Chemicals	346	299	(47)	(13.6%)

^{*}Lubricants include sales overseas

■ Power/Renewable Energy

[Mkwh,%]

	2Q FY2022	2Q FY2023	Change	
Retail Power Sales	1,882	1,020	(863)	(45.8%)



Production Volume

Resources (Oil E&P)

[KBOED,%]

	2Q FY2022	2Q FY2023	Change	
Vietnam	15.8	16.8	+1.0	+6.2%
Norway	15.7	14.8	(0.9)	(5.8%)
Total('000BOED)	31.5	31.6	+0.1	+0.2%
Total('000BOE)	5,708	5,718	+10	+0.2%

^{*}The numbers reflect our rights and ownership ratios based on our equity share

Resources (Coal)

[kt,%]

	2Q FY2022	2Q FY2023	Change	
Ensham	1,425	1,252	(173)	(12.1%)
Muswellbrook	716	15	(701)	(97.9%)
Boggabri	2,446	2,417	(29)	(1.2%)
Total	4,587	3,684	(903)	(19.7%)

^{*}The numbers reflect our rights and ownership ratios

^{*}The number shows Jan-Jun volume as fiscal year for Coal in the Resources Segment ends in Dec.



^{*}The number shows Jan-Jun volume as fiscal year for Oil E&P in the Resources Segment ends in Dec.

^{*} Revised errors in Vietnam FY22 and FY23 1Q figures

Sales Volume(Forecast)

■ Petroleum [KKL,%]

	5/9 Forecast	Revised Forecast	Cha	ange
Gasoline	12,700	12,700	_	_
Naphtha	210	350	+140	+66.7%
Jet Fuel	2,330	2,470	+140	+6.0%
Kerosene	3,720	3,680	(40)	(1.1%)
Diesel Oil	10,530	10,320	(210)	(2.0%)
Heavy Fuel Oil A	3,230	3,240	+10	0.3%
Heavy Fuel Oil C	2,720	2,500	(220)	(8.1%)
Total Domestic Sales Volume	35,440	35,260	(180)	(0.5%)
Exported Volume	8,500	8,240	(260)	(3.1%)
Total Sales Volume	43,940	43,500	(440)	(1.0%)

^{*}Export includes bond sales of jet fuel and heavy fuel oil C



Sales Volume(Forecast)

■ Basic Chemicals

[kt,%]

	5/9 Forecast	Revised Forecast	Change	
Basic Chemicals	3,780	3,600	(180)	(4.8%)

Functional Materials

[KKL,kt,%]

	5/9 Forecast	Revised Forecast	Change	
Lubricants	1,220	1,160	(60)	(4.9%)
Performance Chemicals	720	710	(10)	(1.4%)

^{*}includes sales overseas

■ Power/Renewable Energy

[Mkwh,%]

	5/9 Forecast	Revised Forecast	Change	
Retail Power Sales	2,060	1,990	(70)	(3.4%)



Production Volume(Forecast)

Resources (Oil E&P)

[KBOED,%]

	5/9 Forecast	Revised Forecast	Change	
Norway	14.0	15.3	+1.2	+8.9%
Vietnam	12.8	13.0	+0.3	+2.1%
Total('000BOED)	26.8	28.3	+1.5	+5.7%
Total('000BOE)	9,779	10,333	+554	+5.7%

^{*}The numbers reflect our rights and ownership ratios based on our equity share

Resources (Coal)

[kt,%]

	5/9 Forecast	Revised Forecast	Change	
Ensham	1,190	1,660	+470	+39.5%
Muswellbrook	0	15	+15	-
Boggabri	5,200	5,280	+80	+1.5%
Total	6,390	6,955	+565	+8.8%

^{*}Fiscal year for Oil E&P and Coal included in the Resources Segment end in Dec.

^{*}Ensham was sold by the end of Aug.



^{*}Revised errors in Vietnam of forecast announced on 5/9

^{*}The numbers reflect our rights and ownership ratios

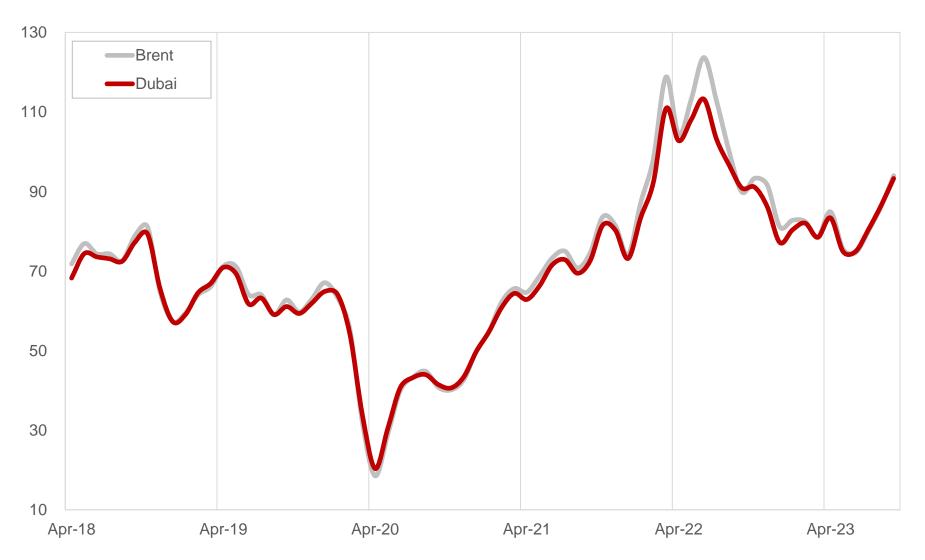
Segment Information

Factors Affecting Operating + Equity Income (excluding inventory impact, y-o-y) [¥ billions] fuel cost, Importing cost Lubricants, Cost, and affiliates etc. etc. etc. Vietnam Power Volume Export 6.0 9.9 Norway 54.7 non-core 1.0 (5.5)Volume products (9.0)(9.0)margin (7.8)Price core products margin (22.0)(time-lag) Consolidated 15.0 adjustment, 12.0 etc. Exchange 252.7 rate, etc. 5.0 220.0 1.9 (85.0)Oil E&P Coal (16.8)(105.1)Functional Power/ **Petroleum Others Basic Resources** Renewable +72.7 Chemicals **Materials** (121.9)+5.0 **Energy** +10.9+6.0 (5.5)FY2023 FY2022 ● (32.7)→ Forecasts



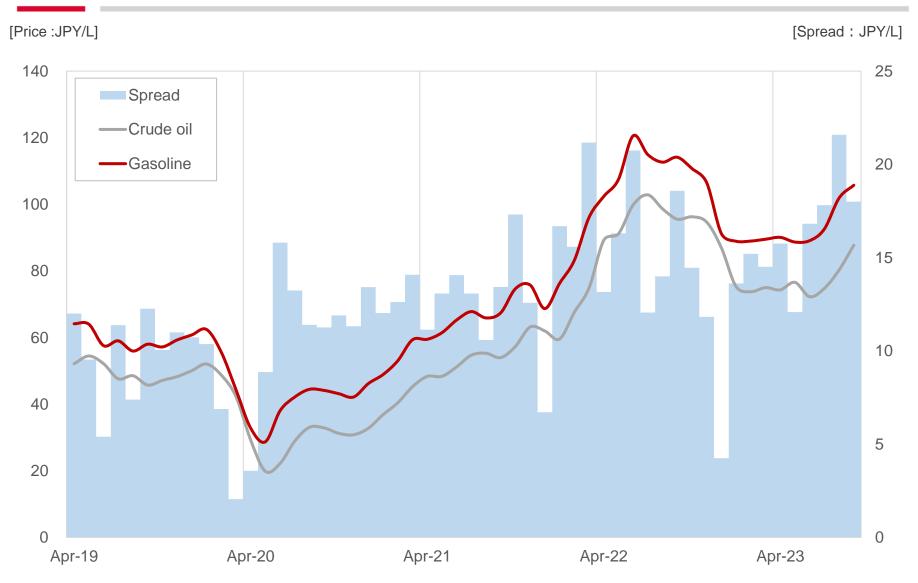
Crude Oil Prices(Dubai and Brent)

[USD/bbl]



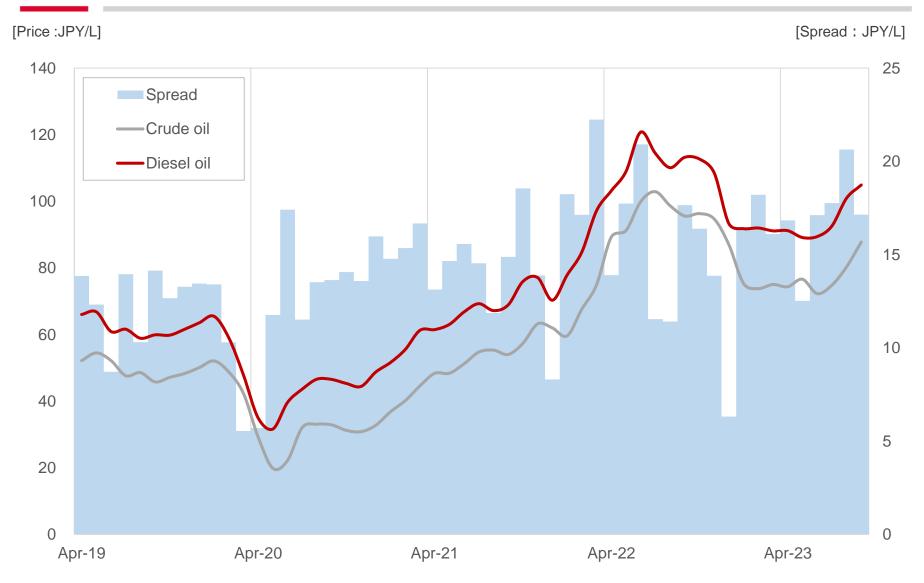


Gasoline-Crude Oil (Domestic spot price and spread)



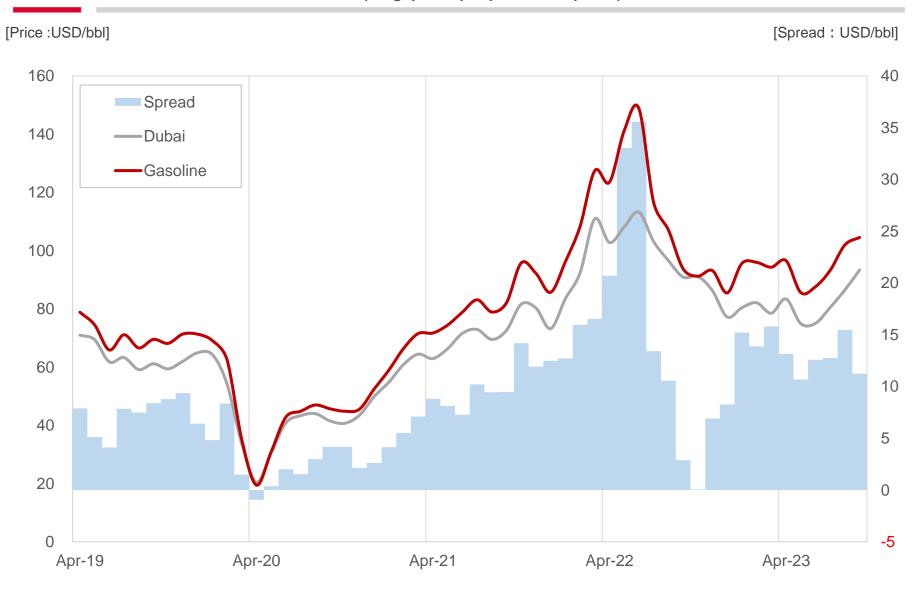


Diesel-Crude Oil (Domestic spot price and spread)



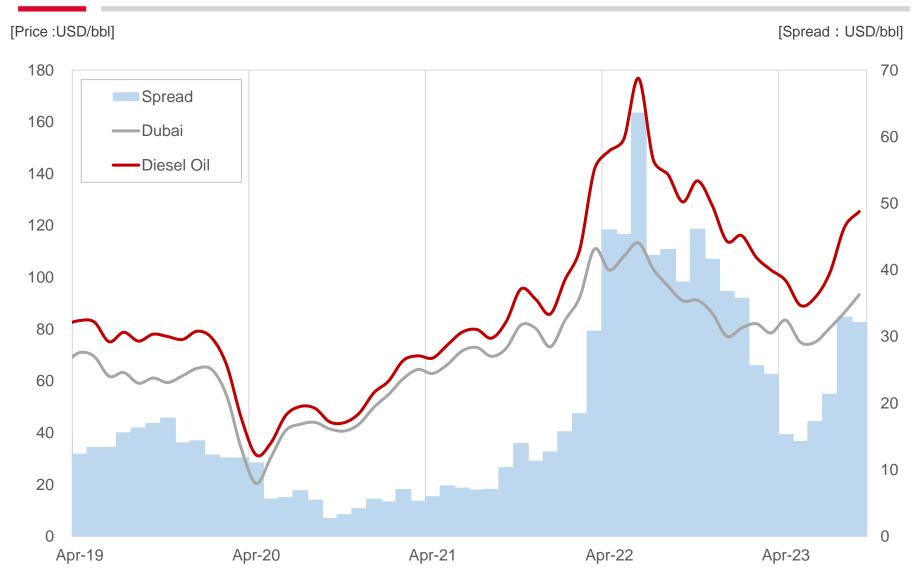


Gasoline-Crude Oil (Singapore spot price and spread)





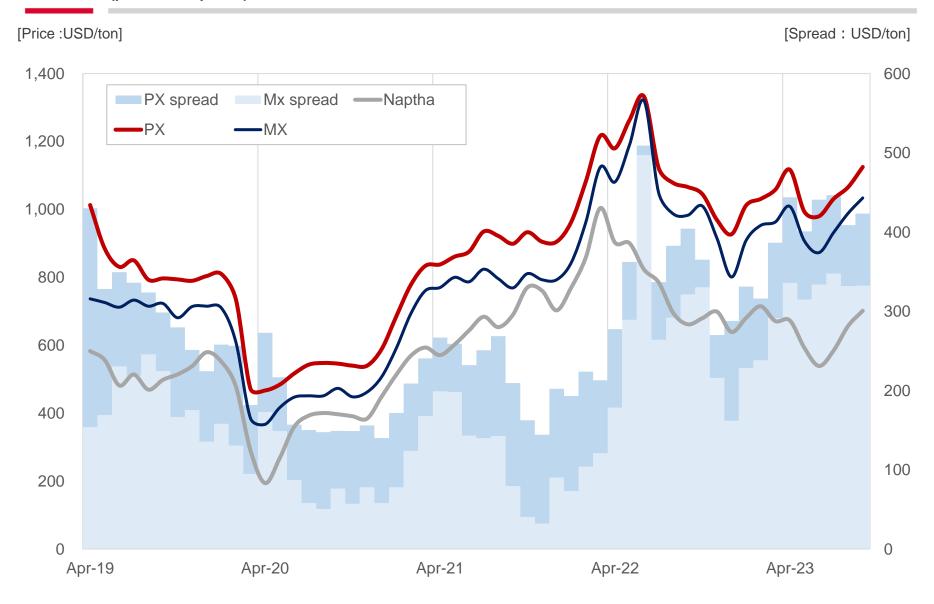
Diesel-Crude Oil (Singapore spot price and spread)





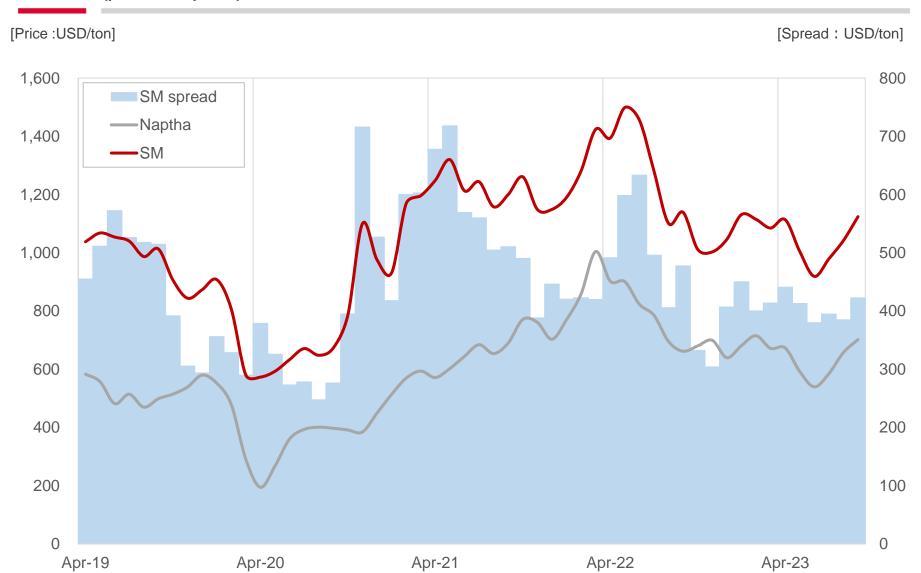
Para-Xylene, Mixed Xylene-Naphtha

(price and spread)



Styrene Monomer-Naphtha

(price and spread)





Operational Data

■ Refineries Utilization

FY2019	FY2020	FY2021	FY2022	FY2023 (2Q)
87%	78%	77%	83%	75%

^{*}on BCD basis(including regular maintenance)

■ Number of Service Stations

FY2019	FY2020	FY2021	FY2022	FY2023 (2Q)
6,384	6,311	6,216	6,136	6,046

Overview of the Company

FY2022, actual or as of the end of March 2023

■ Petroleum Segment

- □ Refining Capacity 945 KBD *1,2)
- Domestic fuel oil sales volume 35 million KL/year *3)
- Number of service stations 6,100

Basic Chemicals Segment

(Production Capacity*2))

- □ Ethylene 1 mil tons/year
- □ Para-Xylene 0.84 mil tons/year
- Mixed Xylene 0.94mil tons/year
- Styrene monomers 0.79 mil tons/year

■ Functional Materials Segment

(Lubricants, Performance Chemicals, Electronic Materials, Bitumen (High Performance Asphalt), Pesticides and Functional Feed, Lithium Solid Electrolytes)

- □ Lubricants (sales volume):1.2 mil KL/year
- □ Engineering plastics(sales volume):150,000 tons/year
- □ Adhesive materials(production capacity): **65,000 tons/year**
- □ OLED materials(production capacity): 26 tons/year

Power and Renewable Energy Segment

- Power generation capacity 1.94GW
 - Renewable energy 0.83GW

■ Resources Segment *4)

- Crude oil production 29,000 BD
- Thermal coal production 6 mil tons/year

^{*4} For resources segment, the numbers are based on forecasts for FY2023. Muswellbrook was ceased in FY22. Ensham is decided to be sold



^{*1 1,090} KBD when adding the refining capacity of Fuji Oil, Co.,Ltd. with which a petroleum products trade agreement has been signed

^{*2} excluding Nghi Son's capacity

^{*3} Bond jet fuel and Bond heavy fuel oil C are included in the exports

Petroleum Segment

as of the end of March 2023 [KB/D]

Operating Company	Refinery	Refining Capacity	RH	FCC	RFCC	FLG	Equity Ratio
	Japan						
Idemitsu	Hokkaido	150	42		33		
Kosan							
	Chiba	190	40		45		
	Aichi	160	60		50		
Showa Yokkaichi Sekiyu	Yokkaichi	255	45		61		75.0%
Toa Oil	Keihin	70		42		27	100.0%
Seibu Oil	Yamaguchi	120	52	30			100.0%
		945	239	72	189	27	
	Overseas						
Nghi Son Refinery	Nghi Son *1,2	200	105		80		35.1%
and Petrochemical LLC	(Thanh Hoa, Vietnam)						
		200	105		80		

^{*1} Capacity before equity ratio reflection

 $[\]ensuremath{^{*}}\xspace$ Yamaguchi refinery is scheduled to stop operation by the end of March 2024.



Basic Chemicals Segment

as of the end of March 2023 [mil tons/year]

_		Pro	duction Capacit	ty for core produ	ucts	
Operating Company	Complex/Factory/Refinery	Ethylene	Para-Xylene	Mixed Xylene	Styrene Monomer	Equity Ratio
	Japan					
Idemitsu Kosan	Chiba	0.374	0.265		0.210	
				2.4-0		
	Aichi		0.357	0.170		
	Tokuyama	0.623	0.214		0.340	
	Tokuyama	0.023	0.214		0.540	
Showa Yokkaichi	Yokkaichi			0.518		75.0%
Sekiyu						
Seibu Oil	Yamaguchi			0.250		100.0%
	Total	0.997	0.836	0.938	0.550	
	Overseas					
Idemitsu SM	Pasir Gudang				0.240	70.0%
(Malaysia) Sdn. Bhd.	(Johor, Malaysia)					
Nghi Son Refinery	Nghi Son		0.700			35.1%
and Petrochemical LLC	(Thanh Hoa,Vietnam)					
	Total		0.700		0.240	



Functional Materials Segment (1/2)

Lubricants Performance Chemicals Product categories Product categories ·Automotive lubricants (engine oil, etc.) Engineering plastics, adhesives materials, derivative products, solvents and functional materials Grease •Industrial lubricants (hydraulic actuation oil, cutting oil, etc.) ◆ Major products, applications, features Engineering plastics (Product) PC/Polycarbonates (Applications) smartphones, lenses, automotive lights, etc. ◆Global business with a focus on automotive lubricants (Features) highest impact resistance among plastics •#8 global share Over 50% overseas sales ▲R&D centers (Product) SPS/ Syndiotactic Polystyrene resin Japan and overseas (US, China, etc.) Global lubricant network (Applications) automotive electronic parts, kitchen appliances, etc. (Features) lightweight and offers excellent heat resistance, electrical properties, chemical resistance, and hydrolysis resistance Daytime Running Lamp Automotive parts Adhesive materials (Product) Hydrogenated petroleum resin ·Manufacturing/sales/R&D network in 28 countries

(Applications) Tackifier for hot-melt adhesives



Disposable diapers and other hygiene products



new facilities

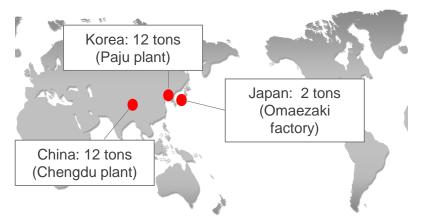
Strengthening existing facilities and developing

Functional Materials Segment (2/2)

Electronic Materials

- Product categories
- Organic EL materials
- ·Display semiconductor materials etc.

♦ OLED manufacturing/customer support



- Establishing factories and customer support centers in Asia and reinforcing relationships with display manufacturers, etc. to further expand the organic EL materials business in Asia
- Aiming to develop and commercialize oxidative semiconductor materials which are expected to conserve energy and enhance image quality of display products

Bitumen (High Performance Asphalt)

- ◆ Asphalt manufacturer which aims to develop state-of-the-art technologies
- ·Recycling, longer life, carbon neutrality
- ◆ Product categories
- Engineering/construction asphalt
- Industrial asphalt
- Value-added asphalt for roads



Maybright (Value-added asphalt for roads)

Pesticides and Functional Feed

- Product categories
- •Chemical pesticides (Daconil 1000*1, etc.)
- Plant-derived pesticides
- •Functional Feeds (RUMINUP*2, etc.)



Daconil 1000



RUMINUP® M



^{*1} Protective disinfectants less affecting organism that has the stable effect toward various crops and damage owing to disease

^{*2} An animal husbandry material containing cashew nut shell liquid that has the effect of reducing methane gas in cattle burps

Power /Renewable Energy Segment

Catagony	Power Plant	Operating Company	Stake Owned	Power generation capacity*
Category	Power Plant	Operating Company	(%)	(10,000 KW)
Solar	34 domestic locations	Idemitsu, other	_	18.7
Biomass	Keihin Biomass Power Plant (Kanagawa)	Keihin Biomass Power	100	4.9
	Tosa Power Plant (Kochi)	Tosa Green Power	50	0.3
	Fukui Green Power (Fukui)	Fukui Green Power	10	0.1
	Tokuyama Biomass Power Plant (Yamaguchi)	Idemitsu	_	5.0
Wind	Rokkasho Village Village Wind Farm (Aomori)	Futamata Wind Development	40	2.0
Geothermal	Takigami Binary Power Plant (Oita)*	Idemitsu Oita Geothermal	100	0.5
Renewable (Japan)				31.5
Fire	Ohgishima Power Station (Kanagawa)	Ohgishima Power	25	30.5
	Mizue Thermal Power Plant (Kanagawa)	Toa Oil	100	27.6
	Aichi Refinery Power Plant (Aichi)	Idemitsu	_	25.0
Domestic				114.9
Solar	Overseas (North America, Vietnam, etc.)	_	_	52.1
Fire	Overseas	_	_	27.1
Overseas				79.2
Total				194.1

^{*}Reflects Idemitsu's stake

- ♦ Owning 836 thousand KW(Japan:315, Overseas:521) of renewable energy generation capacity
- ♦ Operating businesses such as wholesale and retail sales for high and low pressure, based on the company's own generation



Power

- ◆Terminated production in June 2022
- ♦ Shifting to a system integrator which engages in solar power generator design, construction, maintenance and recycling



Resources Segment (Gas and Oil E&P)

Business Overview

- 1. Producing and selling crude oil/gas in Vietnam and Norway
- Exploration and development of gas in Vietnam and other parts of Southeast Asia to shift to production of natural gas, which will become an important energy source in a decarbonized society

◆ Rights owned in oil/gas fields and sales destinations

as of the end of March 2023

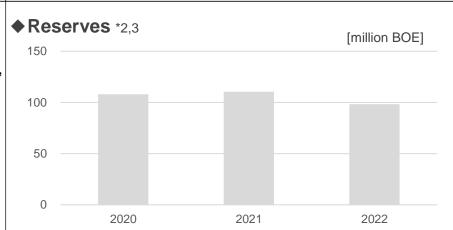
		Rights owned (%)*1	Destination
	g and Dai Nguyet gas eld (Vietnam)	43.08	Asia
	Snorre	9.60	
	Tordis/Vigdis	9.60	
	Statfiord/East	4.80	
	Sygna	4.32	
Norway	Fram	15.00	Europe
	H-Nord	28.80	
	Byrding	15.00	
	Vega	3.30	
	Duva	30.00	

*1 Companies in which Idemitsu owns rights

Norway: INPEX Idemitsu Norge AS

Vietnam: Idemitsu Gas Production (Vietnam) Co., Ltd.

Production Oil/Gas Reserves



- *2 Total reserves in Norwegian oil fields and Vietnamese gas fields
- *3 Reserves reflect Idemitsu's rights and ownership ratios

Reserve Estimation Standards

- ·Idemitsu's reserves estimation is conducted based on PRMS (Petroleum Resources Management System) standards
- •PRMS standards were established jointly by the Society of Petroleum Engineers (SPE), the World Petroleum Congress (WPC), the American Association of Petroleum Geologists (AAPG), and the Society of Petroleum Evaluation Engineers (SPEE) and is recognized as an international standard •Reserves defined by PRMS standards are categorized into 1) proved, 2) probable, and 3) possible reserves. Idemitsu's reserves estimate is calculated as the total of proved and probable reserves (1+2)

Proved Reserves

- •The definition of proved reserves is recognized as the most conservative among definitions used widely in the petroleum/gas industry
- Proved reserves are those quantities of petroleum/gas which, by analysis of geological and engineering data, can be estimated with reasonable certainty to be commercially recoverable under current economic conditions and operating methods
- •When probabilistic methods are used, there should be at least a 90% probability of recovery that the quantities actually recovered will equal or exceed proved reserves

Probable Reserves

- Probable reserves are those unproved reserves which analysis of geological and engineering data suggests are more likely than not to be recoverable
- •When probabilistic methods are used, there should be at least a 50% probability that the quantities actually recovered will equal or exceed the sum of estimated proved plus probable reserves



Resource Segment (Coal)

Business Overview

Business Structure Reforms

[Business Strategy]

- ♦ Stable supply and profit maximization by leveraging the highly competitive Boggabri Mine
- ◆ Engage in low-carbon solution businesses such as Idemitsu Green Energy Pellets
- ◆Leverage management resources built up over years of experience in Australia to transition to new businesses such as rare metals, renewable energy, hydrogen/ammonia, etc.

1. Mining Operations

Owning an Australian coal mine (Boggabri Mine) and has established a whole supply chain from production to sales, providing a stable supply of high-quality coal mainly to Japan

[Overview of Boggabri Mine] Location: New South Wales Coal quality: thermal coal (80%), raw coal (SS/PCI) (20%)

Port for shipments: Newcastle Harbor

(about 360 km by train)



*Mining operations at Muswellbrook Mine were terminated in 2022 and a decision to sell Ensham Mine has been finalized

♦Idemitsu Green Energy Pellets (black pellets)

- •CO₂ emissions can be reduced by replacing coal with black pellets in fuel used at coal-fired power stations
- •Succeeded in a mixed combustion to replace 20-30% of coal fuel with black pellets
- •Planning to operate a commercial plant that produces 120,000 tons/year in Vietnam in FY23. Aiming to reach 3,000,000 tons/year by 2030





♦ New businesses in Australia

- •Rare metals: Invested in Vecco, which engages in vanadium operations in Australia
- •Renewable energy: Commercialization verification of pumped storage hydroelectric power generation at the post-mining Muswellbrook coal mine site



Precaution statement about forecasts

Any information about forecasts for the Company's operating results, management strategy and management policy contained in this documents other than historical facts is prepared, according to judgments made by the top management of the Company based on information available as of the publication of the document.

Actual business environments contain potential risk factors and uncertainties including economic situations, crude oil prices, trends in petroleum products, market conditions, currency exchange rates and interest rates.

Consequently, actual operating results of the Company may substantially differ from forecasts due to changes in the important factors mentioned above.