Securities Code: 5411.T



JFE Group

Financial Results for First Quarter of Fiscal Year 2023 ending March 31, 2024

JFE Holdings, Inc. August 3, 2023



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Financial Highlights

Results for 1Q of FY2023

Business Profit ¥84.8bn.

(decreased by ¥31.8bn. year-on-year)

[Excluding Inventory Valuation etc.]

(Increased by ¥75.2bn. year-on-year)

- · Business profit decreased year-on-year due to negative inventory valuation differences due to a decline in main raw material prices.
- Business profit excluding Inventory valuation etc. improved significantly due to sales price improvement, etc.

Forecast of FY2023

Business Profit ¥290.0bn.

(As previous announced)

[Excluding Inventory [¥315.0bn.] Valuation etc.1

(Increased by ¥35.0bn.

from previous forecast)

Steel business profit per ton*:

10,000yen/t (Increased by 1,000yen from previous forecast)

Crude Steel Production(Standalone):

approx. 24.60Mt (Decreased by 0.40Mt from previous forecast)

Dividend 100yen (Interim dividend 50yen)

- Business profit is unchanged from the previous forecast. (Business profit Excluding Inventory Valuation, etc. improve)
- While the recovery of overseas steel market and demand has been delayed from the initial forecast, profit and profit per ton excluding inventory valuation etc. is **expected to improve** from previous forecast by promoting sales price improvement.
- Annual dividend is as previously announced. JFE Holdings agreed to pay an interim dividend of 50 yen.

Progress of the 7th Medium-Cerm Business Plan

Structural reform: Shutdown of upstream facilities and hot rolling facilities in Keihin is scheduled for September 16, 2023

Overseas strategy: Establish a joint venture company in India of grain-oriented electrical steel sheet with JSW (released on August 3, 2023)

Carbon neutral: Green steel [JGreeXTM] has been selected for large cargo ships (released on June 20, 2023)

Consolidated Results for First Quarter of Fiscal Year 2023 (April 1 to June 30, 2023)



Financial Results for 1Q of Fiscal Year 2023

Business profit in 1Q of FY2023 was ¥84.8bn.

(decreased by ¥31.8bn. year-on-year)

(billion yen)	FY2022 Actual 1Q (Apr-Jun)	FY2023 Actual 1Q (Apr-Jun)	Change
Revenue	1,253.6	1,262.0	8.4
Business Profit [Excluding Inventory Valuation etc.]	116.6 [0.6]	84.8 [75.8]	(31.8) [75.2]
Finance Income/Costs	(3.2)	(4.9)	(1.7)
Segment Profit	113.4	79.8	(33.6)
Exceptional Items	_	_	0.0
Profit before Tax	113.4	79.8	(33.6)
Tax Expense and Profit (Loss) Attributable to Non-Controlling Interests	(29.5)	(20.2)	9.3
Profit Attributable to Owners of Parent	83.8	59.6	(24.2)

Business profit is profit before tax excluding financial income and one-time items of a materially significant value.

Inventory Valuation etc. is inventory valuation, carry over and foreign exchange valuation in steel business.

Segment profit is profit including financial income in business profit.

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Financial Results for 1Q of Fiscal Year 2023 (by Segment)

	(billion yen)	FY2022 Actual 1Q (Apr-Jun)	FY2023 Actual 1Q (Apr-Jun)	Change	Contents
	Steel Business	932.6	917.2	(15.4)	
	Engineering Business	98.2	111.1	12.9	
	Trading Business	379.5	370.3	(9.2)	
	Adjustments	(156.8)	(136.7)	20.1	
R	evenue	1,253.6	1,262.0	8.4	
Вι	ısiness Profit (A)	116.6	84.8	(31.8)	
	nance Income/Costs B)	(3.2)	(4.9)	(1.7)	
	Steel Business	93.0	68.1	(24.9)	Explanation on the next page
	Engineering Business	(1.2)	(0.1)	1.1	Increase in sales revenue and cost reduction
	Trading Business	21.1	14.7	(6.4)	Spread narrowing mainly in North America
	Adjustments	0.4	(2.9)	(3.3)	
	egment Profit	113.4	79.8	(33.6)	



24.9bn. Decrease in JFE Steel's Segment Profit (FY2022.1Q (Actual) vs. FY2023.1Q (Actual))

FY2022

(bil<u>lion yen)</u>

	Unit	1Q	1Q	JFE Steel	FY2022 1Q	FY2023 1Q		Change
Crude Steel (Standalone)	Mt	6.43	6.05	Segment				(24.0)
Shipment (Standalone)	Mt	5.54	5.23	Profit	93.0	68.1		(24.9)
Average Sales Price (Standalone)	000yen /t	126.7	128.5	Excluding Inventory Valuation etc.	(23.0)	59.1		82.1
Exchange Rate	Yen/\$	126.5	135.8					
1. Cost		-	+5.0	Operational impr	rovement			
2. Volume and Mix		(1	0.0)	Crude Steel Prod	luction 6.43Mt=	⇒6.05Mt		
3. Sales and Raw mate	rials	+ 1	20.0	Improved spread raw materials, m				
4. Inventory valuation		(10	 Inventory valuation -66.0 (+61.0→-5.0) Carry over -32.0 (+37.0→+5.0) Foreign exchange valuation-9.0 (+18.0→+9.0) 					
5. Others		(3	2.9)	 Group companies Foreign exchange Depreciation cos	e effects on tra	ade -5.0		

Financial Forecastsfor Fiscal Year 2023 (April 1, 2023, to March 31, 2024)



Financial Forecast for Fiscal Year 2023

JFE

- Full-year business profit is expected to be ¥290.0bn. (as previous forecast, increased by ¥54.2bn. year-on-year)
- Full-year profit attributable to owners of parent is expected to be ¥190.0bn. (as previous forecast, increased by ¥27.4bn. year-on-year)

(billion yen)		2022 tual	FY2023 Forecast (Previous)		2023 (Updated)	Change FY2022 →FY2023	Change Previous →Updated
	1H	Full year	Full year	1H	Full year	Full year	Full year
Revenue	2,564.3	5,268.7	5,540.0	2,610.0	5,380.0	111.3	(160.0)
Business Profit [Excluding Inventory Valuation etc.]	187.9 [71.9]	235.8 [162.8]	290.0 [280.0]	125.0 [141.0]	290.0 [315.0]	54.2 [152.2]	0.0 [35.0]
Finance Income/Costs	(6.6)	(14.8)	(20.0)	(10.0)	(20.0)	(5.2)	0.0
Segment Profit	181.2	221.0	270.0	115.0	270.0	49.0	0.0
Exceptional Items	-	(10.7)	-	-	-	10.7	0.0
Profit before Tax	181.2	210.2	270.0	115.0	270.0	59.8	0.0
Tax Expense and Profit (Loss) Attributable to Non-Controlling Interests	(57.9)	(47.6)	(80.0)	(30.0)	(80.0)	(32.4)	0.0
Profit Attributable to Owners of Parent	123.2	162.6	190.0	85.0	190.0	27.4	0.0



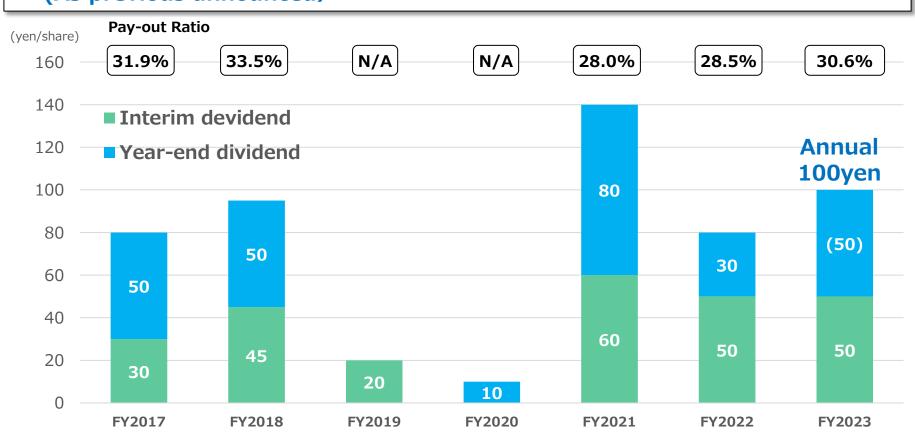
Financial Forecast for Fiscal Year 2023 (by Segment)

(billion yen)		FY20 Act		FY2023 Forecast (Previous)		023 Updated)	Change FY2022 →FY2023	Change Previous →Updated
		1H	Full year	Full year	1H	Full year	Full year	Full year
	Steel Business	1,918.9	3,881.1	4,000.0	1,880.0	3,770.0	(111.1)	(230.0)
	Engineering Business	219.0	512.5	550.0	230.0	550.0	37.5	0.0
	Trading Business	750.2	1,514.1	1,620.0	780.0	1,620.0	105.9	0.0
	Adjustments	(323.9)	(638.9)	(630.0)	(280.0)	(560.0)	78.9	70.0
Revenue		2,564.3	5,268.7	5,540.0	2,610.0	5,380.0	111.3	(160.0)
Bus	iness Profit (A)	187.9	235.8	290.0	125.0	290.0	54.2	0.0
Fina (B	ince Income/Costs)	(6.6)	(14.8)	(20.0)	(10.0)	(20.0)	(5.2)	0.0
	Steel Business	148.2	146.8	200.0	87.0	200.0	53.2	0.0
	Engineering Business	(3.9)	13.4	25.0	5.0	25.0	11.6	0.0
	Trading Business	40.6	65.1	48.0	26.0	48.0	(17.1)	0.0
	Adjustments	(3.6)	(4.3)	(3.0)	(3.0)	(3.0)	1.3	0.0
Se (A+	gment Profit	181.2	221.0	270.0	115.0	270.0	49.0	0.0



Dividend

- > JFE Holdings agreed to pay an interim dividend of **50 yen per share** at its Board of Directors.
- The annual dividend for FY2023 is expected to be 100 yen per share, based on our payout ratio policy of approximately 30%.
 (As previous announced)



JFE Steel Financial Forecast for Fiscal Year 2023

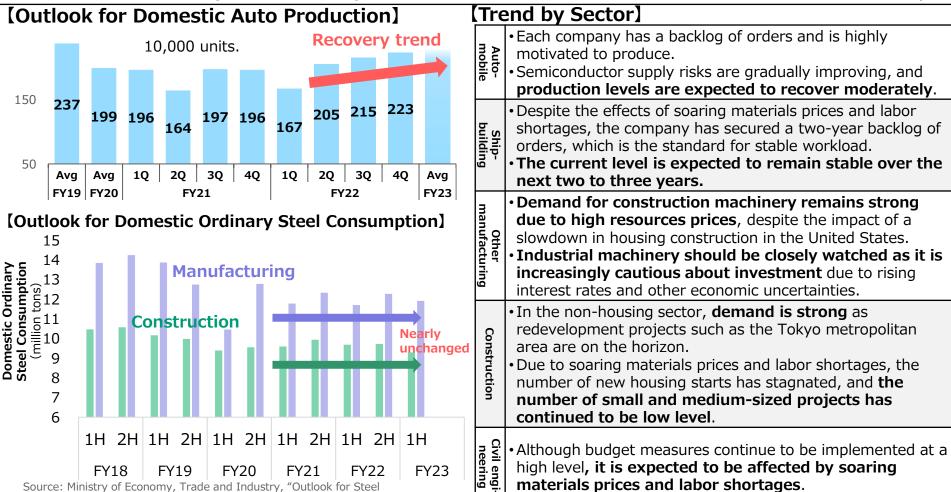


Business environment (Domestic)

JFE

Consumption" 7 July 2023. (FY2022, 2H and after is estimated results)

- Although the level of activity in the automotive sector is improving, demand continues to be postponed due to labor shortages and the impact of soaring materials prices, particularly in the civil engineering and construction sectors.
- Demand for steel products is expected to be flat from the first half to the second half of the year.





Business environment (Overseas)

JFF

- Overall, steel demand is expected to recover moderately.
- While China has increased crude steel production, domestic demand has been weak, including a slump in the real estate industry, and the market recovery is slower than expected.

Energy

The Chinese government's economic stimulus measures and curbs on crude steel are expected to improve steel supply and demand and market conditions from the beginning of the next year.

(China's crude steel production Annual crude steel and steel exports] production (per month) 2020: 1,053 million tons (88) Crude steel production(per month) 2021: 1,033 million tons (86) 2022: 1,013 million tons (84) (Mt) 93 Avg(2021) Avg(2022) **88 91** 84Mt/Month 90 (Mt) 90 90 84 82 81 78 76 70 Steel exports (right axis) 1-3 4-6 7-9 10-12 1-3 4-6 7-9 10-12 1-3 4-6 7-9 10-12 1-3 4-6 2022 2023

(China: Steel market price) (\$/t)900 **HRC Price** 800 700 late in 600 500 ※HRC Price : Average price in 5 cities in China 400 23.10 20.10 21.4 21.10 22.4 22.10 23.4

[Real GDP Growth Forecast in 2023]

(Arrows indicate changes from the previous forecast)

	World	US	China	India	ASEAN-5
2022 Estimate	3.5%	2.1%	3.0%	7.2%	4.5%
Apr. 2023 Forecast	2.8%	1.6%	5.2%	5.9%	5.3%
Jul. 2023 Forecast	3.0%	1.8%	5.2%	6.1%	5.3%

Source: IMF World Economic Outlook Update April 11 and July 25, 2023

plants is expected to remain strong.

(Trend by Sector)

Thailand, Malaysia, Indonesia, Philippine, and Singapore

	_ · / · · · · · ·
Thin Sheet	 Demand in China is expected to recover moderately, thanks in part to governmental support for the real estate sector. In Southeast Asia, there has been some postponement of purchases due to currency depreciation and budget shortfalls, but we expect moderate improvement in demand in the future.
Auto- mobile	 Demand is firm and production levels are expected to recover gradually. However, the recovery is expected to be moderate compared to the previous year due to the prolonged crisis in Ukraine, rising prices and interest rate hikes mainly in the United States, as well as a slowdown in growth in China.
Ship- building	 China and South Korea shipbuilders are increasing orders for new construction and securing stable contracts. Despite the impact of the labor shortage, it is expected to be firm as the labor shortage is gradually being resolved.

·While oil and gas prices has fallen temporarily due to fears of a slowdown in

the economy, investment in projects to develop oil and natural gas



Raw materials market trends

JFE

- Key raw materials
- Iron ore prices rose from late last year to early this year due to expectations of a recovery in steel demand following the easing of China's zero coronavirus policy, however, fell around March due to a slower recovery in the steel market. The prices are currently hovering around FOB\$100.
- Coal prices fluctuated wildly last year due to the situation in Ukraine and the weather, but they
 are now moving calmly.
- Both iron ore and coking coal are expected to remain at current levels.
- Metals

\$/DMT

118

133

103

85

112

107

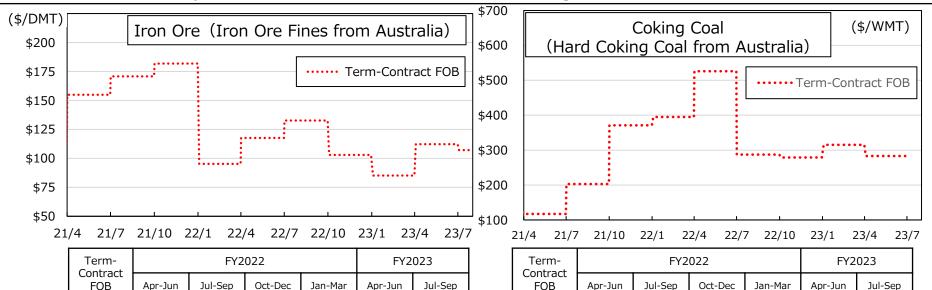
\$/WMT

526

287

279

 Metals prices remain weak due to the sluggish European economy and the slower recovery in China's economy and steel demand, however, are still high relative to historical levels.



315

283



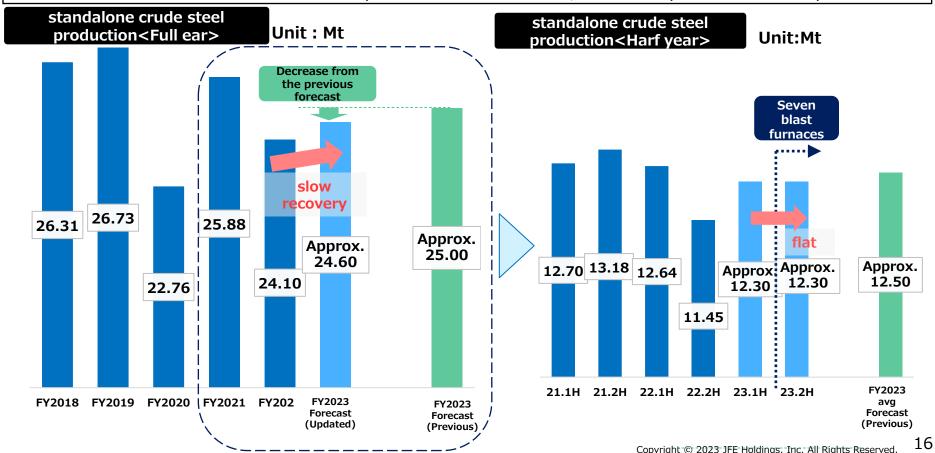
Crude steel production

JFF

Although there is a recovery trend in some sectors (such as for domestic automobiles), the overall recovery has been slower than previous forecast, so standalone crude steel production is expected to be approx. 24.60Mt per year.

(down 0.40Mt from the previous forecast)

After Shut down of upstream facilities and hot rolling facilities in Keihin on September 16, 23, The number of blast furnaces in Japan decrease to seven, and the operation rate improves.



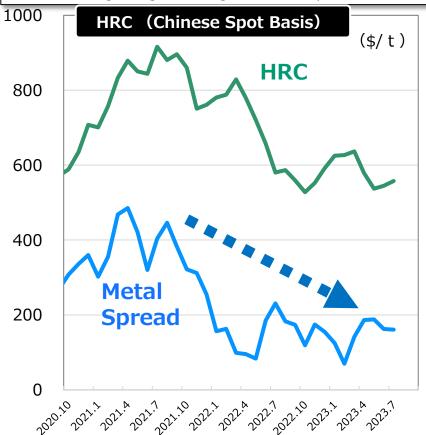


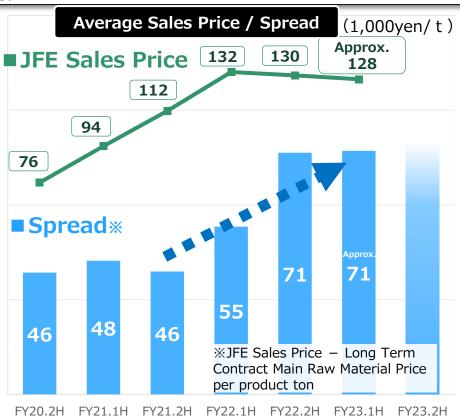
Improving of sales price

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- ➤ In 1H of FY2023, despite the impact of the decline in main raw material prices and overseas steel market, we continue the reflections of metal and commodity costs*, overhaul of extra pricing, and enhancing sales price, and are expected to maintain sales prices generally.
- The spread of FY2023 is expected to increase by ¥144.0bn. (+7,000yen/t) from FY2022 and increase by ¥64.0bn.(+3,000yen/t) from the previous forecast.

*Including foreign exchange effect, scrap, metal, fare, energy, etc.







Financial Forecast for Fiscal Year 2023

JFE

<i>J</i> i L												
				FY2022				FY2	2023(upda	ted)	-	FY2023
	Unit	10	20] 1H	2H	Full Year	1Q	20] 1H	2H	Full Year	Previous Forecast
Revenue	billion yen	932.6	986.3	1,918.9	1,962.2	3,881.1	917.2	970.8	1,888.0	1,882.0	3,770.0	4,000.0
Segment Profit	billion yen	93.0	55.2	148.2	(1.4)	146.8	68.1	18.9	87.0	113.0	200.0	200.0
Excluding Inventory Valuation etc.*	billion yen	(23.0)	55.2	32.2	41.6	73.8	59.1	43.9	103.0	122.0	225.0	190.0
Crude Steel (Standalone)	Mt	64.3	62.1	126.4	114.5	241.0	60.5	Approx. 63.0	Approx. 123.0	Approx. 123.0	Approx. 246.0	Approx. 250.0
Crude Steel (Consolidated)	Mt	67.7	65.9	133.7	121.1	254.8	63.8	Approx. 67.0	Approx. 131.0			
Shipment (Standalone)	Mt	55.4	53.2	108.6	108.8	217.4	52.3	Approx. 57.0	Approx. 109.0			
Export Ratio on Value Basis (Standalone)	%	48.5	45.0	46.7	42.2	44.5	44.2	Approx. 44	Approx. 44			
Average Sales Price (Standalone)	000 yen/ t	126.7	136.7	131.6	129.9	130.8	128.5	Approx. 127	Approx. 128			
Exchange Rate	¥/\$	126.5	136.6	131.6	138.6	135.1	135.8	Approx. 142	Approx. 139	Approx. 140	Approx. 139	Approx. 130
Exchange Rate (End of Term)	¥/\$	136.7	144.8	144.8	133.5	133.5	145.0	Approx. 140	Approx. 140	Approx. 140	Approx. 140	Approx. 130

^{*} Excluding inventory valuation, carry over and foreign exchange valuation from segment profit



0.0bn. Increase in JFE Steel's Segment Profit (FY2023 (Previous Forecast) vs. FY2023 (Updated Forecast))

_			(billion yen)		
JFE Steel	FY2023 Previous Forecast	FY2023 Updated Forecast	Change		
Segment Profit	200.0	200.0	0.0		
Excluding Inventory Valuation etc.	190.0	225.0	35.0		
1. Cost	±0.0				
2. Volume and Mix	(8.0)	Crude Steel Production approx.	25.00Mt⇒approx.24.60Mt		
3. Sales and Raw materials	+70.0	mproved spreads due to the renain raw materials, metals, an elling prices			
4. Inventory valuation	 • Inventory valuation -9.0 (-3.0→-12.0) • Carry over -36.0 (+17.0→-19.0) • Foreign exchange valuation+10.0 (-4.0→+6.0) 				
5. Others	(27.0) • Foreign exchange effects on trade -21.0 etc.				



53.2Bn. Increase in JFE Steel's Segment Profit (FY2022 (Actual) vs. FY2023 (Forecast))

(billion yen)

JFE Steel	FY2021 Actual	FY2022 Forecast
Segment Profit	146.8	200.0
Excluding Inventory Valuation etc.	73.8	225.0

(2
Change
53.2
151.2

1. Cost	+63.0	 Structural reforms effect +20.0 Operational improvement +20.0 Disappearance of blast furnace refurbishment impact and production reduction impact +23.0
2. Volume and Mix	+10.0	 Increased volume due to gradual recovered steel demand (Crude Steel Production 24.10Mt⇒approx. 24.60Mt)
3. Sales and Raw materials	+145.0	 Improved spreads due to the reflection of high prices of main raw materials, metals, and other commodities in selling prices
4. Inventory valuation	(98.0)	 Inventory valuation -91.0 (+79.0→-12.0) Carry over +4.0 (-23.0→-19.0) Foreign exchange valuation-11.0 (+17.0→-6.0)
5. Others	(66.8)	 Depreciation cost -12.0 Foreign exchange effects on trade -10.0 etc.



26.0Bn. Yen Increase in JFE Steel's Segment Profit (FY2023.1H vs. FY2023.2H)

(billion yen)

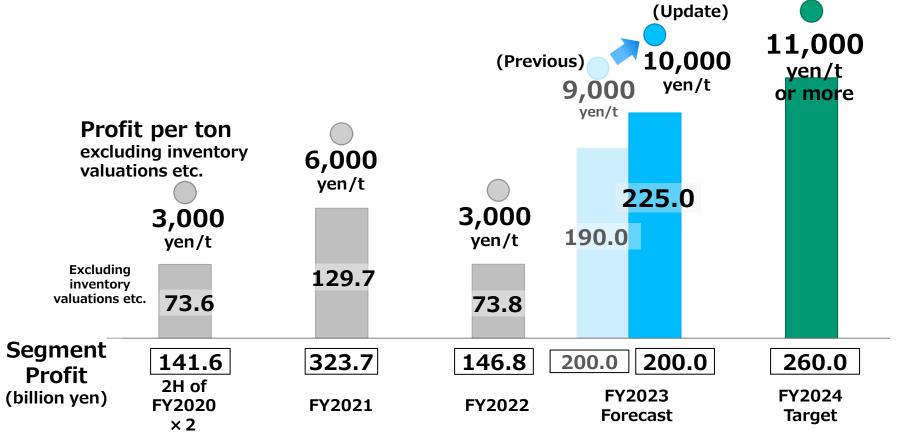
7EE 01 1	FY2023 Forecast				Change
JFE Steel	1H Forecast	2H Forecast	Full Year		
Segment Profit	87.0	113.0	200.0		26.0
Excluding Inventory Valuation etc.	103.0	122.0	225.0		19.0
1. Cost	+33.0 • Structural reforms effect +20.0 • Operational improvement +13.0				
2. Volume and Mix	±0.0				
3. Sales and Raw materials	±0.0				
4. Inventory valuation	+7.0	 Inventory valuation -6.0 (-3.0→-9.0) Carry over+19.0 (-19.0→±0.0) Foreign exchange valuation -6.0(+6.0→±0.0) 			
5. Others	(14.0)	·Increase other expenses etc.			



Profit in the steel business

JFE

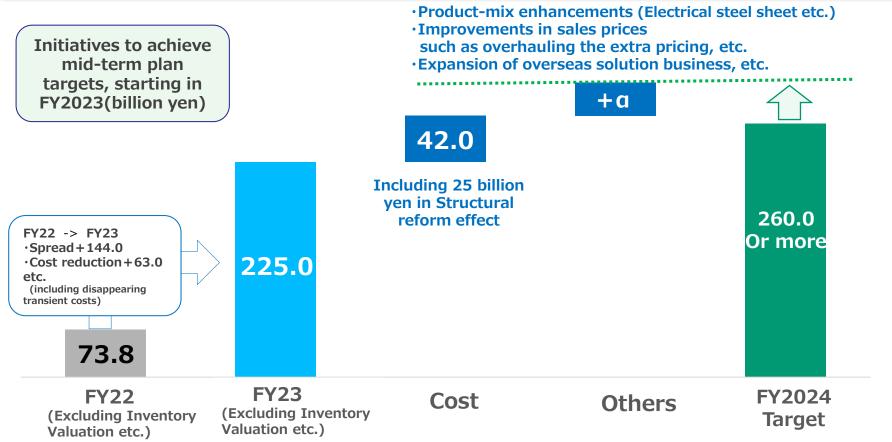
- While raw material prices are lower than the previous forecast, maintaining sales prices will improve profitability.
- ➤ In FY2023, profit per ton excluding inventory valuations etc. is expected to be 10,000yen/t. (increased by 1,000yen/t from previous forecast)





Paths toward achieving the Seventh Medium-Term Plan

- ➤ In FY2023, segment profit excluding Inventory Valuation etc. in the steel business is expected to be 225 billion yen.
- In FY2024, due to steadily implementing various measures, including structural reforms, sales price improvements, and an increase in the ratio of high-value-added products, we aim to achieve 260 billion yen or more.



JFE Engineering Financial Forecast for Fiscal Year 2023



Financial Forecast for Fiscal Year 2023

■ Current Business Environment/Overview of Financial Status

- Expect to increase orders in the field of "Waste to Resource" and "Carbon neutral".
- Due to the increase in sales by the progress of ordered projects and the impact of soaring prices on materials and equipment,

Segment profit is expected to be as follows;

1H: ¥5.0 billion, up ¥8.9 billion from 1H of previous year,

Full year: ¥25 billion*, up ¥11.6 billion from the previous year.

*No change from the previous forecast

■ Financial Forecast

	FY2022 Actual		FY2023 Forecast		Change	
(billion yen)	1H	Full Year	1H	Full Year	1H	Full Year
Orders	286.0	564.9	280.0	580.0	(6.0)	15.1
Revenue	219.0	512.5	230.0	550.0	11.0	37.5
Segment Profit	(3.9)	13.4	5.0	25.0	8.9	11.6

JFE Shoji Financial Forecast for Fiscal Year 2023



Financial Forecast for Fiscal Year 2023

■ Current Business Environment/Overview of Financial Status

- Compared to the previous fiscal year, despite a recovery in automobile production, segment profit are expected to decline due to a delay in demand recovery from the initial expectations in other sectors and a narrowing of spreads, particularly in North America.
- ➤ 1H segment profit is expected to be ¥26 billion, down ¥14.6 billion from the same period of the previous year.
- Full year segment profit is expected to be ¥48 billion as previously forecast (Down ¥17.1 billion from the previous year and up ¥8 billion from the mid-term plan).

■ Financial Forecast

	FY2022 Actual		FY2023 Forecast		Change	
(billion yen)	1H	Full Year	1H	Full Year	1H	Full Year
Revenue	750.2	1,514.1	780.0	1,620.0	29.8	105.9
Segment Profit	40.6	65.1	26.0	48.0	(14.6)	(17.1)

Progress of the 7th Medium-Term Business Plan (Main initiatives of Steel Business)



Progress of main initiatives of the 7th mid-term business plan (Steel Business)

1. Shifting focus from quantity to quality

·Upstream facilities in Keihin will be suspended in September as planned.

(released on 3rd Aug. 2023)

·Large and heavy steel plate for wind power generation has been selected

(released on 3rd Aug. 2023)

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2. Expand and accelerate overseas business

•Singed a joint venture agreement to establish a joint venture company in India to manufacture GO electrical steel sheets with JSW (released on 3rd Aug. 2023)

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3. Use digital technology to strengthen production base

•Transition to the open environment of the core system for the first time in a large-scale integrated steel mill, Kurashiki. (released on 7th Jul. 2023)

4. Achieving carbon neutrality

- •Agreed on joint evaluation to establish CCS value chain originated from Japan aligned with CCS study in Malaysia. (released on 19th Jun. 2023)
- ·Large cargo ships to be made exclusively with JGreeX™. (released on 20th Jun. 2023)
- •Signed MOU to establish a supply chain of ferrous raw material for green ironmaking.

 (released on 18th Jul. 2023)

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Progress on Structural Reform

JFE

- Shutdown of upstream facilities and hot rolling facilities in Keihin is scheduled for September 16, 2023. We are steadily implementing product transfers, building production systems, and dealing with employees and partner companies.
- Complete the structural reforms and promote shifting focus from quantity to quality. The fixed cost reduction effect (45 billion yen) will be realized by FY2024, aiming to significantly lower the break-even point.

	FY21	FY22	FY23	FY24~
Shutdown of Tin Mills in Chiba Consolidation in Fukuyama	(No.2 Ta	utdown(Aug. ndem Mill, N		ΓFL)
Refit of Blast Furnace	Kurashiki Refit No.4 BF (~Dec_2021	\Rightarrow	23)	
Shut down of upstream facilities and hot rolling facilities in Keihin		To be s (Septemb	shut do per 16,	
Development	Partner for of the north Minami-W	the north side district in the	evelopme plans in Ogishim (Sep. 2023	nt Ogimachi land la (Dec.

Progress shut down Keihin upstream facilities

- Approval to switch to manufacturing at other iron works has progressed smoothly.
- Capital investment in logistics and other activities to establish a new production system was generally completed.
- With regard to employees engaged in suspended equipment, confirm their intentions on the premise of securing employment and reassign them to other offices including other districts.
- Partner companies are also being dealt with in cooperation with local governments.

Effect of Structural Reform

- Standalone crude steel production capacity: approx. Down 4Mt/year (approx. -13% reduction)
- The fixed cost reduction effect after FY2023 :
 45billion yen

(20 billion yen in FY2023 and 25 billion yen in FY2024)



Progress in a land reuse project in Keihin District

JFE

- Land reuse project in Keihin is making steady progress. (Decided to sell some land in Ogimachi and selected business partners in the northern part of Minamiwatarida-Kita area.)
- In June 2023, Kawasaki City announced the Ogishima Land Use Plan (draft).
 Our company's land development Plan is scheduled to be announced in September 2023 based on the city's plan.

■ Kawasaki City land use plan (draft) (announced on 2nd June 2023)

[Zoning]

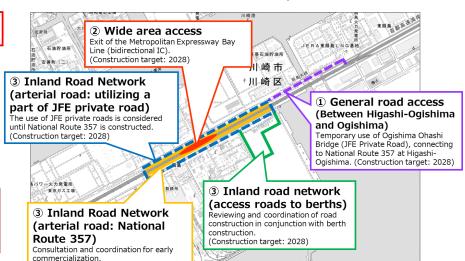
function

Specific use is described in the leading area, and the area other than the leading area (hinterland) can be used widely.

Advanced logistics utilizing the latest technology Port distribution bases utilizing berths Leading area Carbon neutral energy Next-generation industry • Sky mobility, etc. Commerce, Culture, Life and Entertainment Other than the Disaster prevention leading area Carbon neutral bases base in the centered on hydrogen metropolitan area (partial land use will start in FY2028) Industrial support

(Infrastructure Development)

Necessity of (1) general road access (between Higashi-Ogishima and Ogishima), (2) wide area access (entrance/exit of Metropolitan Expressway Bay Line), (3) island road network for the partial land use start from FY2028, is presented.



^{*}JFE created the above maps based on the Kawasaki City land use plan (draft).



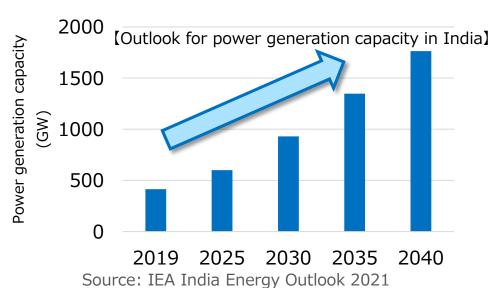
Establish a joint venture company in India of grain-oriented electrical steel sheet with JSW Released on 3rd Aug

Released on 3rd August 2023

Singed a joint venture agreement with JSW for the establishment of a joint venture company for Grain-Oriented (GO) electrical steel sheets in India.

Company name: JSW JFE Electrical Steel Private Limited, Investment ratio: 50:50.

- Demand outlook for GO electrical steel sheets in India
- India's power generation capacity will grow at 7% per year. Demand for GO electrical steel sheets used in transformers is expected to grow equally.
- Governmental PJ transformers mainly use high-grade GO electrical steel sheets due to the government's regulation on higher efficiency.
 - ✓ Through the alliance with JSW, we capture the rapidly growing demand for high-end GO in India.
 - Establish India's first integrated GO manufacturing company. The company plans to expand its production capacity in line with the growing Indian GO market.



Total investment	670 MUSD			
Start of production (Plan)	full operation from 2027			



JSW Steel Limited: Vijayanagar facility

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Green steel products "JGree" have been selected

Released on 20th June 2023

JFE

- → JGreeXTM has been selected for four large cargo ships (dry bulk ships). About 14,000 tons of JGreeXTM are scheduled to be delivered.
- Collaborate with eight domestic shippers, we have created the world's first sustainable framework where costs of CO₂ reduction are shared across the entire supply chain.
- \triangleright As a CO₂ reduction value (premium), in this case, JGreeXTM is sold at a price about 40% higher than that of ordinary steels.







Shipbuilding

Ship

Shipowner Chartering Shippers Shipp-ing

Consignor Merchandise

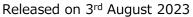
User

Onomichi Higaki

Loan

Bank



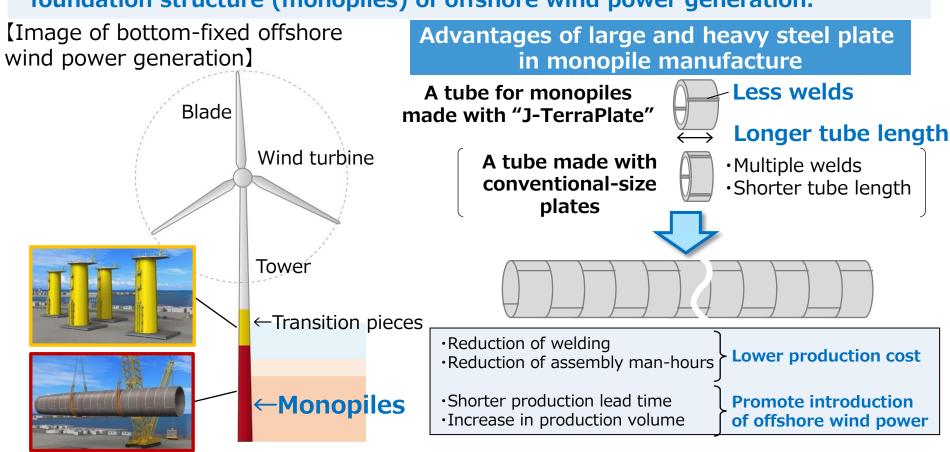




Large and Heavy Steel Plate for wind power generation has been selected

JFE

Large and heavy steel plate "J-TerraPlate™" for wind power generation produced with Kurashiki No. 7 continuous caster has been selected for the first time for the foundation structure (monopiles) of offshore wind power generation.



Construction of JFE Engineering's Kasaoka monopile plant is progressing as planned (scheduled to start operation in April 2024).

Appendix(1) Profit/Loss Analysis



Debt/EBITDA Ratio

■EBITDA = Business profit + Depreciation and Amortization

■Debt/EBITDA Ratio = Interest-bearing debt outstanding/EBITDA

Debt/EBITDA ratio in 1H of FY2023 is 3.5x. (times) 9.0 Target of the 7th **Debt/EBITDA Ratio** mid-term (Right Axis) 7.0 business plan 5.0 Approx. 3x **3.7** 3.5 3.0 2.8 Calculated from 1.0 annualized EBITDA **EBITDA** forecast for 1H FY2023 (billion yen) 668.7 505.4 540.0 $(1H\times2)$ 1,849.4 1,900.0 1,862.9 Debt 1,747.6 1,743.5 Net Debt FY2023.1H FY2021 FY2022 **Forecast**



Main Performance & Profitability Targets and Results

			The 7 th mid-term business plan FY2024
Cons	Business Pr [Excluding Inv	ofit entory Valuation etc.]	¥320.0 bn.
Consolidatec	Profit attrib the parent	utable to owners of	¥ 220.0 bn.
ted	ROE		10%
Ope	Steel	Profit per ton* [Excluding Inventory Valuation etc.]	10,000 yen/t
rating	Business	Segment profit [Excluding Inventory Valuation etc.]	¥ 230.0bn.
Operating companies	Engineering Business	Segment profit	¥35.0bn.
nies	Trading Business	Segment profit	¥40.0bn.

FY2021	FY2022	FY2023
Actual	Actual	Forecast
¥ 416.4Bn.	¥ 235.8bn.	¥290.0bn.
[¥2,224bn.]	[¥162.8bn.]	[¥315.0bn.]
¥ 288.0bn.	¥162.6bn.	¥190.0bn.
15.7%	7.9%	8.7%
14,000yen/t	7,000yen/t	9,000yen/t
[6,000yen/t]	[3,000yen/t]	[10,000yen/t]
¥323.7bn.	¥146.8bn.	¥200.0bn.
[¥129.7bn.]	[¥73.8bn.]	[¥190.0bn.]
¥26.0bn.	¥13.4bn.	¥25.0bn.
¥55.9bn.	¥65.1bn.	¥48.0bn.

^{*} Steel business profit per ton (consolidated segment profit / non-consolidated sales volume)



Main Financial Data

TEDC

PY14 PY15 PY16 PY17 PY18 PY18 PY18 PY18 PY18 PY18 PY18 PY28 PY21 PY22 PY21 PY22 PY21 PY23	JAAP	AAP					IFRS	_	_			
Ordinary Income 231.0 64.2 84.7 216.3 221.1 Business profit 232.0 37.8 -12.9 416.4 235.8 EBITDA 421.5 254.4 279.9 388.8 405.9 EBITDA *1 428.2 269.4 223.4 668.7 505.4 ROS 6.0% 1.9% 2.6% 5.9% 5.6% ROS *2 6.0% 1.0% -0.4% 9.5% 4.5% ROE 7.7% 1.8% 3.7% 7.6% 8.3% ROE *3 8.6% -11.1% -1.3% 15.7% 7.9% ROA 5.5% 1.7% 2.3% 5.2% 5.1% ROA *4 5.0% 0.8% -0.3% 8.4% 4.4% Debt Outstanding 1,501 1,379 1,375 1,331 1,450 Interest-bearing debt outstanding 1,524 1,814 1,806 1,849 1,863 D/E Ratio 59.0% 56.9% 51.4% 58.1% 62.0% D/E Ratio *6 68.2% 96.4% 9		FY14	FY15	FY16	FY17	FY18		FY18	FY19	FY20	FY21	′22
EBITDA 421.5 254.4 279.9 388.8 405.9 EBITDA *1 428.2 269.4 223.4 668.7 505.4 ROS 6.0% 1.9% 2.6% 5.9% 5.6% ROS *2 6.0% 1.0% -0.4% 9.5% 4.5% ROE 7.7% 1.8% 3.7% 7.6% 8.3% ROE *3 8.6% -11.1% -1.3% 15.7% 7.9% ROA 5.5% 1.7% 2.3% 5.2% 5.1% ROA *4 5.0% 0.8% -0.3% 8.4% 4.4% Debt Outstanding 1,501 1,379 1,375 1,331 1,450 Interest-bearing debt outstanding 1,501 1,379 1,375 1,331 1,450 Debt/EBITDA Ratio x3.6 x5.4 x4.9 x3.4 x3.6 Debt/EBITDA multiple *5 x3.6 x6.7 x8.1 x2.8 x3.7 D/E Ratio 59.0% 56.9% 51.4% 58.1% 62.0% D/E Ratio 6 68.2% 96.4% 93.2% 80.8% 67.8% D/E Ratio 6 0 30 30 80 95 Dividend (yen/share) 95 20 10 140 80	(bn. Yen, times)						(bn. Yen, times)					
ROS 6.0% 1.9% 2.6% 5.9% 5.6% ROS *2 6.0% 1.0% -0.4% 9.5% 4.5% ROE *3 8.6% -11.1% -1.3% 15.7% 7.9% ROA 5.5% 1.7% 2.3% 5.2% 5.1% ROA *4 5.0% 0.8% -0.3% 8.4% 4.4% Debt Outstanding 1,501 1,379 1,375 1,331 1,450 Debt/EBITDA Ratio x3.6 x5.4 x4.9 x3.4 x3.6 Debt/EBITDA multiple *5 x3.6 x6.7 x8.1 x2.8 x3.7 D/E Ratio 59.0% 56.9% 51.4% 58.1% 62.0% D/E Ratio *6 68.2% 96.4% 93.2% 80.8% 67.8% D/E Ratio *6 68.2% 96.4% 93.2% 80.8% 67.8% D/E Ratio *6 68.2% 96.4% 93.2% 80.8% 67.8% D/E Ratio *6 68.2% 96.4% 93.2% 80.8% 57.8% D/E Ratio *6 68.2% 96.4% 93.2% D/E	Ordinary Income	231.0	64.2	84.7	216.3	221.1	Business profit	232.0	37.8	-12.9	416.4	235.8
ROE 7.7% 1.8% 3.7% 7.6% 8.3% ROE *3 8.6% -11.1% -1.3% 15.7% 7.9% ROA *4 5.0% 0.8% -0.3% 8.4% 4.4% Debt Outstanding 1,501 1,379 1,375 1,331 1,450 Debt/EBITDA Ratio x3.6 x5.4 x4.9 x3.4 x3.6 D/E Ratio 59.0% 56.9% 51.4% 58.1% 62.0% D/E Ratio 59.0% 56.9% 51.4% 58.1% 62.0% D/E Ratio 59.0% 56.9% 51.4% 250.8 285.0 D/E Ratio 60 30 30 30 80 95 D/E Ratio 95 20 10 140 80 Dividend (yen/share)	EBITDA	421.5	254.4	279.9	388.8	405.9	EBITDA *1	428.2	269.4	223.4	668.7	505.4
ROA 5.5% 1.7% 2.3% 5.2% 5.1% ROA *4 5.0% 0.8% -0.3% 8.4% 4.4% Debt Outstanding 1,501 1,379 1,375 1,331 1,450 Debt/EBITDA Ratio x3.6 x5.4 x4.9 x3.4 x3.6 D/E Ratio 59.0% 56.9% 51.4% 58.1% 62.0% Profit attributable to owners of parent (yen/share) 60 30 30 30 80 95 Dividend (yen/share) 60 50.0% 5.2% 5.2% 5.2% 5.2% 60 60 60 60 60 60 60 60 60 60 60 60 60	ROS	6.0%	1.9%	2.6%	5.9%	5.6%	ROS *2	6.0%	1.0%	-0.4%	9.5%	4.5%
Debt Outstanding 1,501 1,379 1,375 1,331 1,450 Debt/EBITDA Ratio x3.6 x5.4 x4.9 x3.4 x3.6 D/E Ratio 59.0% 56.9% 51.4% 58.1% 62.0% Profit attributable to owners of parent (yen/share) 60 30 30 30 80 95 Dividend (yen/share) 1,501 1,379 1,375 1,331 1,450 Interest-bearing debt outstanding 1,524 1,814 1,806 1,849 1,863 Debt/EBITDA x3.6 x6.7 x8.1 x2.8 x3.7 Debt/EBITDA multiple *5 b.2% 96.4% 93.2% 80.8% 67.8% Dividend (yen/share) 283.8 -343.4 -38.0 500.1 280.7	ROE	7.7%	1.8%	3.7%	7.6%	8.3%	ROE *3	8.6%	-11.1%	-1.3%	15.7%	7.9%
Debt Outstanding 1,501 1,379 1,375 1,331 1,450 outstanding 0 1,524 1,814 1,806 1,849 1,863 Debt/EBITDA Ratio x3.6 x5.4 x4.9 x3.4 x3.6 Debt/EBITDA multiple *5 x3.6 x6.7 x8.1 x2.8 x3.7 D/E Ratio 59.0% 56.9% 51.4% 58.1% 62.0% D/E Ratio *6 68.2% 96.4% 93.2% 80.8% 67.8% Profit attributable to owners of parent (yen/share) 241.6 58.4 117.8 250.8 285.0 Dividend (yen/share) 60 30 30 80 95 Dividend (yen/share) 95 20 10 140 80	ROA	5.5%	1.7%	2.3%	5.2%	5.1%	ROA *4	5.0%	0.8%	-0.3%	8.4%	4.4%
Debt/EBITDA Ratio X3.6 X5.4 X4.9 X3.4 X3.6 multiple *5 X3.6 X6.7 X8.1 X2.8 X3.7	Debt Outstanding	1,501	1,379	1,375	1,331	1,450		1,524	1,814	1,806	1,849	1,863
Profit attributable to owners of parent (yen/share) 241.6 58.4 117.8 250.8 285.0 285.0 Dividend (yen/share) 60 30 30 80 95 Dividend (yen/share) 95 20 10 140 80	Debt/EBITDA Ratio	x3.6	x5.4	x4.9	x3.4	x3.6		x3.6	x6.7	x8.1	x2.8	x3.7
owners of parent (yen/share) 241.6 58.4 117.8 250.8 285.0 owners of parent (yen/share) 283.8 -343.4 -38.0 500.1 280.7 Dividend (yen/share) 60 30 30 80 95 Dividend (yen/share) 95 20 10 140 80	D/E Ratio	59.0%	56.9%	51.4%	58.1%	62.0%	D/E Ratio *6	68.2%	96.4%	93.2%	80.8%	67.8%
owners of parent (yen/share) 241.6 58.4 117.8 250.8 285.0 owners of parent (yen/share) 283.8 -343.4 -38.0 500.1 280.7 Dividend (yen/share) 60 30 30 80 95 Dividend (yen/share) 95 20 10 140 80												
(yen/share) 60 30 30 80 95 (yen/share) 95 20 10 140 80	owners of parent	241.6	58.4	117.8	250.8	285.0	owners of parent	283.8	-343.4	-38.0	500.1	280.7
		60	30	30	80	95		95	20	10	140	80
Pay-out Ratio 24.8% 51.4% 25.5% 31.9% 33.3% Pay-out Ratio 33.5% — — 28.0% 28.5%	Pay-out Ratio	24.8%	51.4%	25.5%	31.9%	33.3%	Pay-out Ratio	33.5%	-	_	28.0%	28.5%

Notes [IFRS]

- *1 EBITDA = Business profit + Depreciation and Amortization
- *2 ROS = Business profit / Revenue
- *3 ROE = Profit attributable to owners of parent company / Equity
- *4 ROA = Business profit / Total assets
- *5 Debt/EBITDA ratio = Interest-bearing debt outstanding / EBITDA
- *6 D/E ratio = Interest-bearing debt outstanding / Equity attributable to owners of parent For debt having a capital component, a portion of its issue price is deemed to be capital, as assessed by rating agencies.



Financial Results for First Quarter of Fiscal Year 2023

				FY2021			FY2022					FY
	Unit											2023
		1Q	2Q	3Q	4Q	Full Year	1Q	2Q	3Q	4Q	Full Year	1Q
Revenue	billion yen	638.5	771.9	832.8	930.2	3,173.4	932.6	986.3	986.9	975.3	3,881.1	917.2
Segment Profit	billion yen	69.7	88.8	93.5	71.7	323.7	93.0	55.2	21.8	(23.2)	146.8	68.1
Excluding Inventory Valuation etc.*	billion yen	25.7	42.8	(3.5)	64.7	129.7	(23.0)	55.2	22.8	18.8	73.8	59.1
Crude Steel (Standalone)	Mt	6.25	6.45	6.49	6.69	25.88	6.43	6.21	5.48	5.97	24.10	6.05
Crude Steel (Consolidated)	Mt	6.59	6.80	6.85	7.02	27.26	6.77	6.59	5.81	6.29	25.48	6.38
Shipment (Standalone)	Mt	5.26	5.56	5.63	5.92	22.38	5.54	5.32	5.25	5.64	21.74	5.23
Export Ratio on Value Basis (Standalone)	%	43.2	49.3	45.9	43.6	45.5	48.5	45.0	41.0	43.6	44.5	44.2
Average Sales Price (Standalone)	000 yen/ t	87.6	101.0	107.6	116.7	103.7	126.7	136.7	136.3	124.0	130.8	128.5
Exchange Rate	¥/\$	109.8	110.0	113.1	115.3	112.1	126.5	136.6	144.0	133.2	135.1	135.8
Exchange Rate (End of Term)	¥/\$	110.6	111.9	115.0	122.4	122.4	136.7	144.8	132.7	133.5	133.5	145.0

^{*}Excluding inventory valuation, carry over and foreign exchange valuation from segment profit



91.3bn. Increase in JFE Steel's Segment Profit (FY2022.4Q (Actual) vs. FY2023.1Q (Actual))

JFE Steel FY2022 FY2023							
JFE Steel	1Q	2Q	3Q	4Q	Full year	1Q	
Segment Profit	93.0	55.2	21.8	(23.2)	146.8	68.1	91.3
Excluding Inventory Valuation etc.	(23.0)	55.2	22.8	18.8	73.8	59.1	40.3

1. Cost	+10.0	Operational improvementDisappearance of blast furnace refurbishment impact
2. Volume and Mix	+1.0	• Crude Steel Production 5.97Mt⇒6.05Mt
3. Sales and Raw materials	+10.0	 Improved spreads due to the reflection of high prices of main raw materials, metals, and other commodities in selling prices
4. Inventory valuation	+51.0	 Inventory valuation +13.0 (-18.0→-5.0) Carry over+29.0 (-24.0→+5.0) Foreign exchange valuation+9.0 (±0.0→+9.0)
5. Others	+19.3	 Group companies +7.0 Disposal of fixed assets +6.0 etc.



JFE Steel

49.2bn. Decrease in JFE Steel's Segment Profit (FY2023.1Q (Actual) vs. FY2023.2Q (Forecast))

(billion yen)

Change

JI L Steel	1Q(Actual)	2Q(Forecast)	1H		S.i.a.i.gC
Segment Profit	68.1	18.9	87.0		(49.2)
Excluding Inventory Valuation etc.	59.1	43.9	103.0		(15.2)
1. Cost	±0.0				
2. Volume and Mix	+5.0	Crude Steel Prod	luction 6.05Mt⇒aprrox	x.6.30)Mt
3. Sales and Raw materials	±0.0				
4. Inventory valuation	(34.0)	 Carry over-29.0 	ion +7.0 (-5.0+2.0) (+5.0→-24.0) e valuation-12.0 (+9.0	0→-3	.0)
5. Others	(20.2)	 Group companie Disposal of fixed Foreign exchang		0 etc	

FY2023 Forecast



88.4bn. Increase in JFE Steel's Segment Profit (FY2022.2H (Actual) vs. FY2023.1H (Forecast))

JFE Steel	FY2022 2H(Actual)	FY2023 1H(Forecast)
Segment Profit	(1.4)	87.0
Excluding Inventory Valuation etc.	41.6	103.0

Change (billion yen)	
88.4	
61.4	

1. Cost	+20.0	Disappearance of blast furnace refurbishment impact and production reduction impact
2. Volume and Mix	+16.0	 Increased volume due to gradual recovered steel demand (Crude Steel Production 11.45Mt⇒approx. 12.30Mt)
3. Sales and Raw materials	+15.0	 Improved spreads due to the reflection of high prices of main raw materials, metals, and other commodities in selling prices
4. Inventory valuation	+27.0	 Inventory valuation ±0.0 (-3.0→-3.0) Carry over+9.0 (-28.0→-19.0) Foreign exchange valuation +18.0 (-12.0→+6.0)
5. Others	+10.4	•Group companies +10.0 etc.



61.2bn. Decrease in JFE Steel's Segment Profit (FY2022.1H (Actual) vs. FY2023.1H (Forecast))

JFE Steel		FY2022 1H(Actual)	FY2023 1H(Forecast)	
	Segment Profit	148.2	87.0	
	Excluding Inventory Valuation etc.	32.2	103.0	

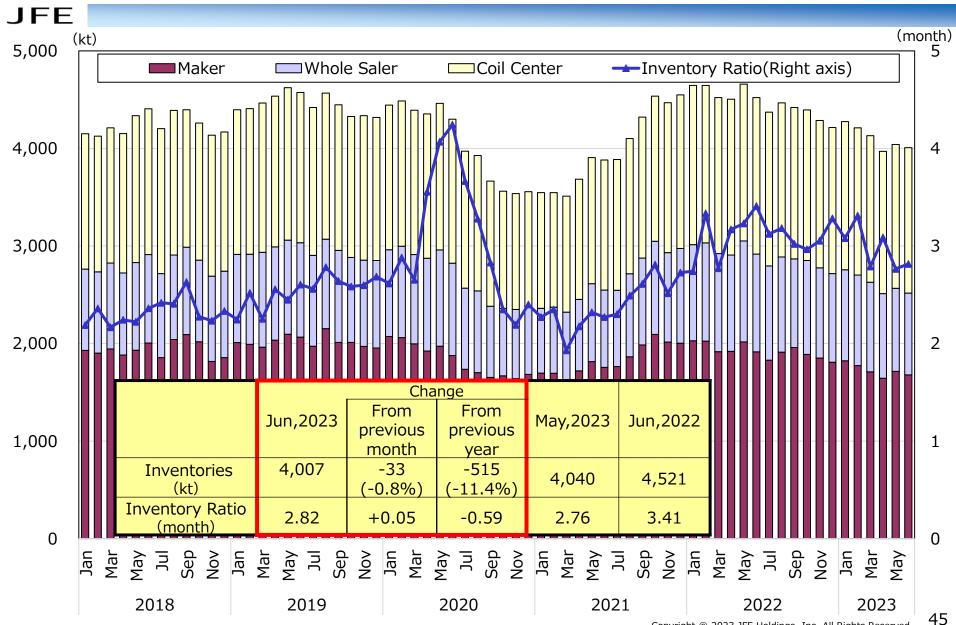
Change (billion yen)	
(61.2)	
70.8	

1. Cost	+10.0	Operational improvementDisappearance of blast furnace refurbishment impact
2. Volume and Mix	(7.0)	• Crude Steel Production 12.64Mt⇒approx. 12.3Mt
3. Sales and Raw materials	+132.0	 Improved spreads due to the reflection of high prices of main raw materials, metals, and other commodities in selling prices
4. Inventory valuation	(132.0)	 Inventory valuation -85.0 (+82.0→-3.0) Carry over-24.0 (+5.0→-19.0) Foreign exchange valuation-23.0 (+29.0→+6.0)
5. Others	(64.2)	 Group companies -13.0 Depreciation cost -10.0 Foreign exchange effects on trade -9.0 etc.

Appendix(2) Business Environmental Indicators, etc.

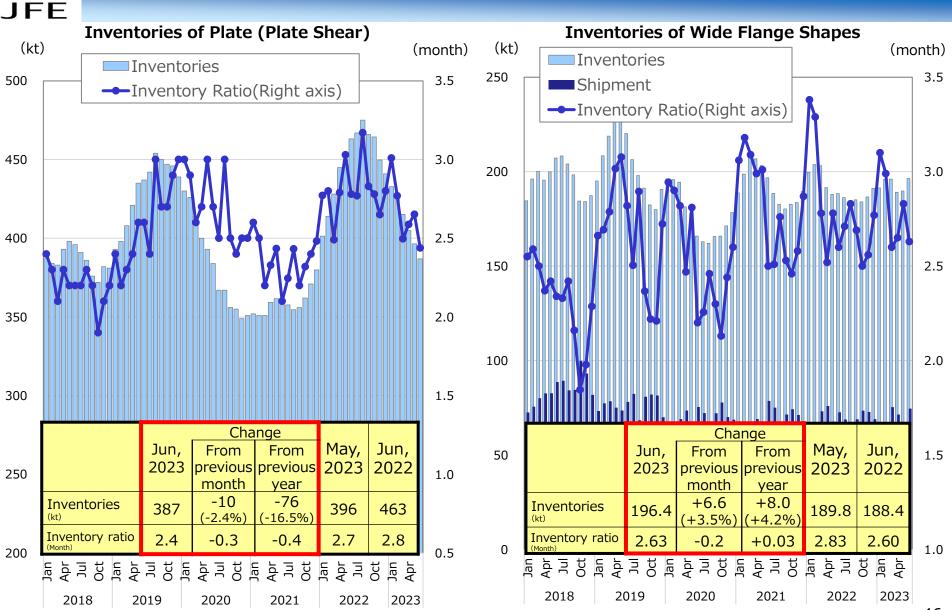


Combined Inventories of HR, CR and Coated Steel Sheet



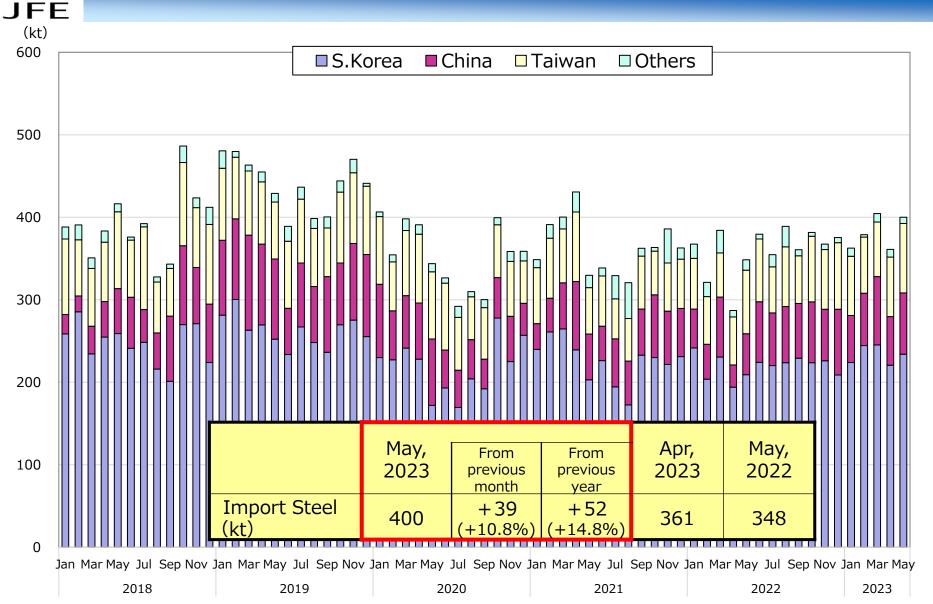


Inventories of Plate (Plate Shear) and Wide Flange Shapes



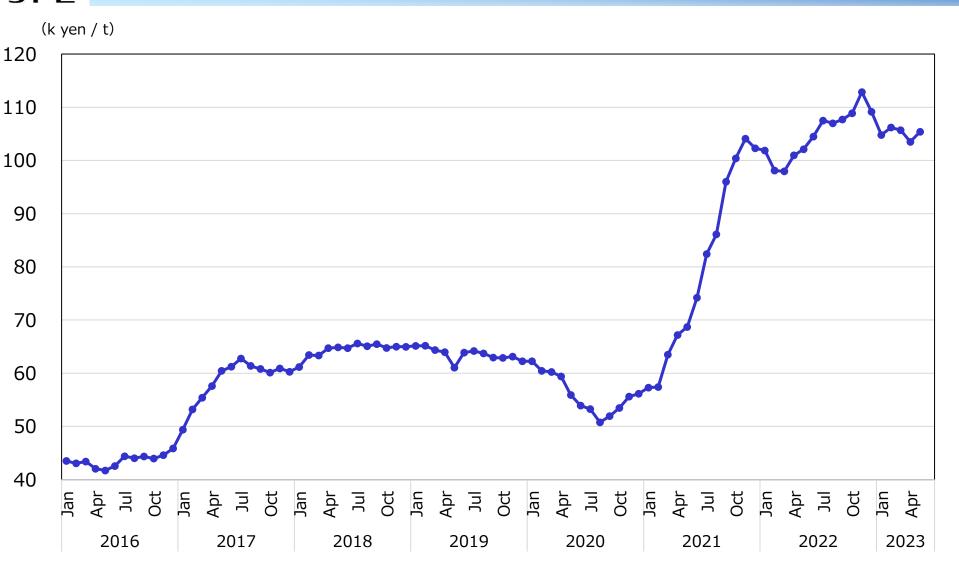


Trend of Import Steel (Ordinary Steel)





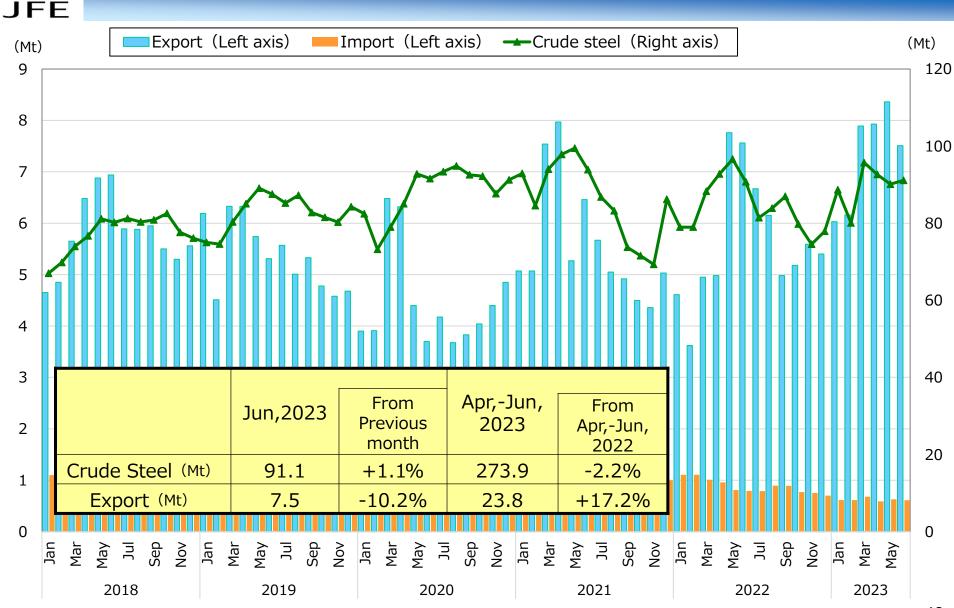
Price Trend of Import Steel



Data: The Japan Iron and Steel Federation Import Steel from S. Korea



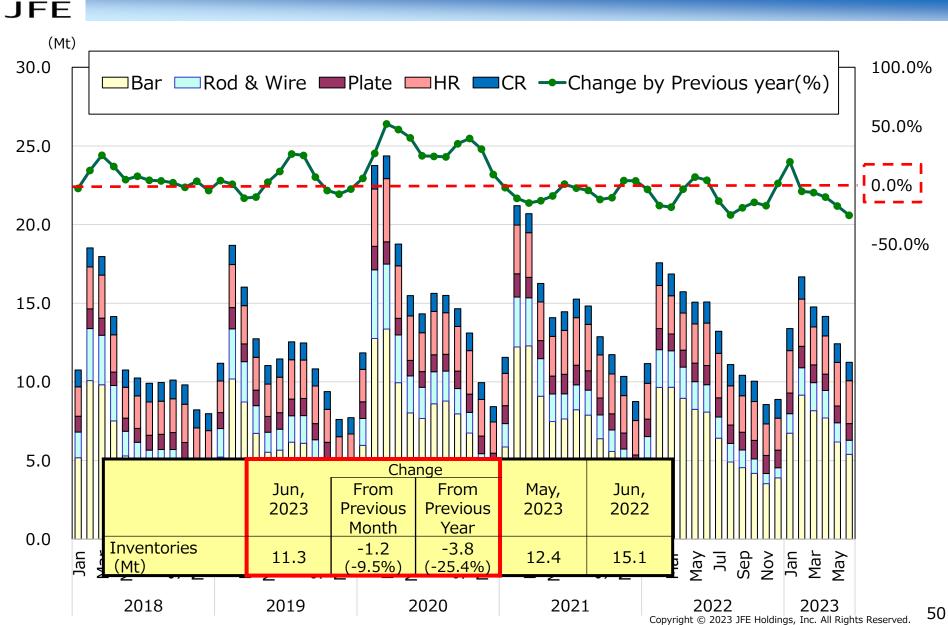
Crude Steel & Im/Export, China



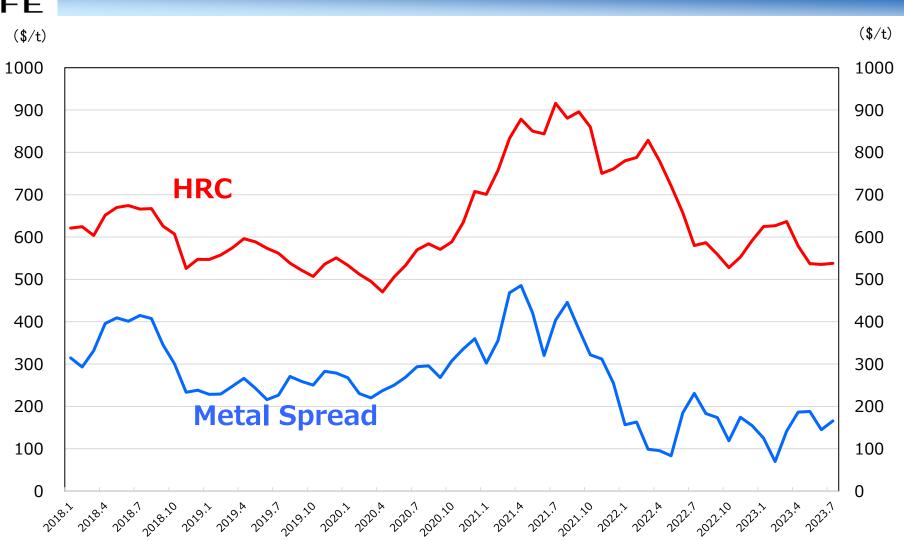


Overseas Market Environment

Crude Steel & Im/Export, China



Metal Spread Trend (Chinese Spot Basis)



Metal Spread = HRC Price - Raw Materials Cost

*HRC Price: Chinese Spot basis

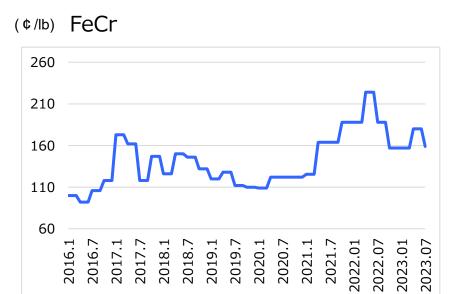
Raw Materials Cost: Calculated from market price of Iron Ore and Hard Coking Coal



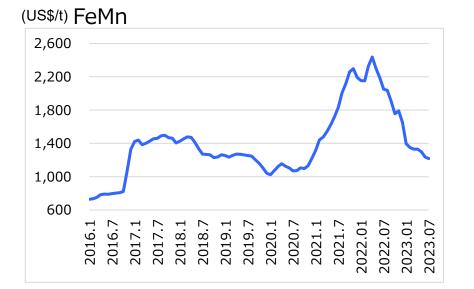
Raw Materials

Trend of Sub Material's Market Price

JFE









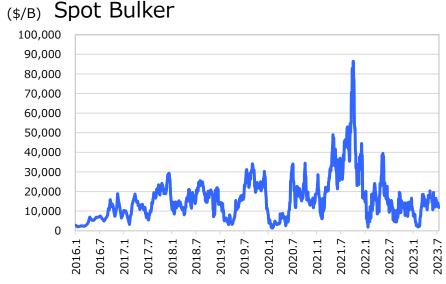


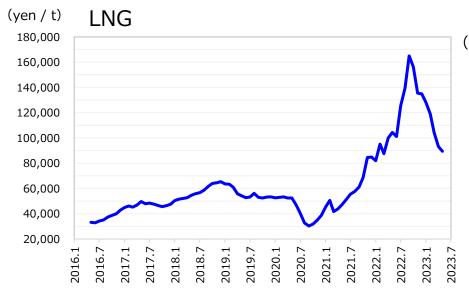
Raw Materials

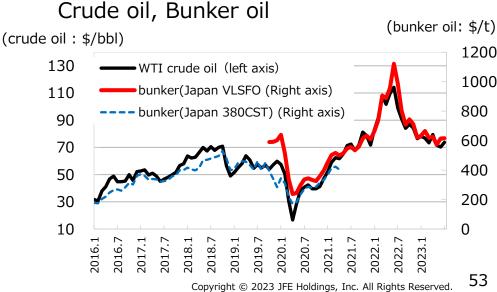
Trend of Sub Material's Market Price

JFE











Orders by Business Field

				(billion yen)
Business Field	FY2022 Actual	FY2023 Outlook	Change	Main orders received in FY2023 First-Quarter
Waste to Resource	216.9	224.0	7.1	Renewal work of domestic waste treatment facility [Saitama]
Carbon Neutral	57.6	81.0	23.4	
Combined Utility Service	21.1	17.0	(4.1)	
Core Infra- stracture	269.3	258.0	(11.3)	Reinforcement work of cable tunnel for domestic telecommunications facilities [Osaka]
Total	564.9	580.0	15.1	
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Links to the reports published during FY2022

資料名	URL	QR⊐−ド
JFE Group REPORT 2022	https://www.jfe- holdings.co.jp/investor/library/group- report/index.html	
JFE Group CSR REPORT 2022	https://www.jfe- holdings.co.jp/csr/data/index.html	
JFE Group CSR REPORT 2022 ESG Data	https://www.jfe- holdings.co.jp/csr/pdf/2022/2022_09 .pdf	
DX REPORT 2022	https://www.jfe- holdings.co.jp/investor/library/dxrepo rt/index.html	

Appendix(3) The 7th Medium-Term Business Plan



Mid/long-term directions

Biggest transformation in company's history aimed at achieving global success

JFE's corporate vision Contributing to society with the world's most innovative technology

JFE's mission

To be essential to society's sustainable development and to create safe, comfortable lives for people everywhere



(helping to solve critical issues)



Economic sustainability

(stable earnings power)

Ensuring environmental & social sustainability and establishing economic sustainability will enable to ensure the resiliency of JFE's operational foundations and allow the company to achieve sustainable growth and increased value over the mid/long-term.



Initiatives to achieve environmental and social sustainability (helping to solve critical issues)

JFE Group Environmental Vision for 2050

- Aim to realize carbon neutral by 2050, taking climate change as an extremely important business concern for JFE
- Accelerate R&D in new technologies and strive to create <u>super-innovative technologies</u>
- Contribute to the reduction of CO₂ emissions in society and use this as a business opportunity to increase corporate value
- Work systematically to combat climate change under <u>TCFD philosophy</u>

S

Solve issues impacting society

- 1. Safety/health management
- 2. Facilitate employee participation
 (Diversity & Inclusion, Personnel development, Workstyle reforms)
- 3. Contribute to regional societies through engineering
- **4. Respect human rights throughout supply chain** (Conduct human-rights due diligence from FY2021)

G

Enhance corporate governance

Consider how to apply non-financial metrics in terms of director compensation and investment decisions etc.



JFE Group Environmental Vision for 2050







Toward Carbon Neutrality by 2050 JFE Group Environmental Vision for 2050

(GX Investment during 7th mid-term business plan : 340 billion yen)

GX: Green transformation

1. Key environmental initiative under 7th mid-term business plan

 Steel business: Reduction of CO₂ emissions by 18% by the end of FY2024 (vs. FY2013)

2. Carbon Neutrality by 2050

- Reduce CO₂ emissions at JFE Steel
 - Pursue super-innovative technology for carbon-recycling blast furnaces and CCU
 - Develop hydrogen-based ironmaking (direct reduction) technology etc.

② Expand contributions to CO₂ emissions reduction in society

• Engineering business: Expand & develop renewable-energy power generation and carbon-recycling technologies.

Targets to contributions to CO2 emissions reduction

FY2024 12 Mt

- Steel business: Develop & market eco-products and eco-solutions. TY2030 25 Mt
- Trading business: Increase trading in biomass fuels, steel scrap, etc. and strengthen business in SCM for eco products.

 SCM: Supply Chain Management
- **3** Groupwide commercialization of offshore wind-power business



JFE Group's activities for Carbon neautrality



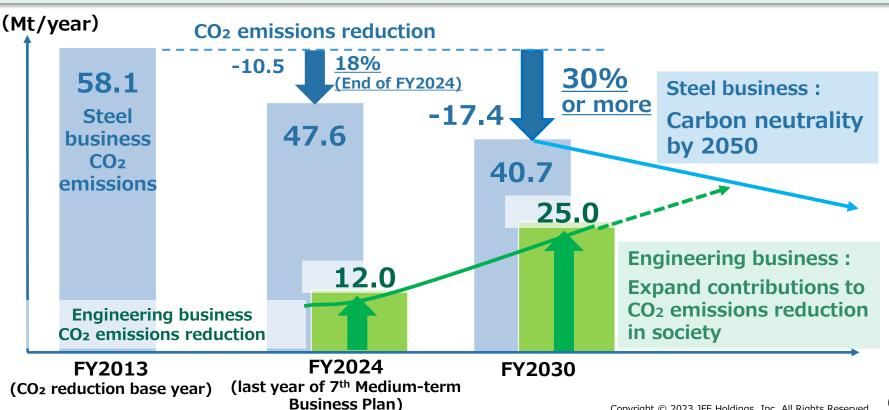




Steel Business: CO₂ emission reduction by 18% at the end of FY2024 (vs. FY2013)

Through decarbonization in steel manufacturing processes etc., JFE Group aims to be carbon neutral.

Engineering Business: Contribute to carbon neutrality in society on the whole by **expanding** JFE Engineering's contributions to CO₂ emissions reduction resulting from its business such as development of renewable-energy generation and carbon recycling technologies.





[Steel Business] Roadmap for Carbon Neutrality

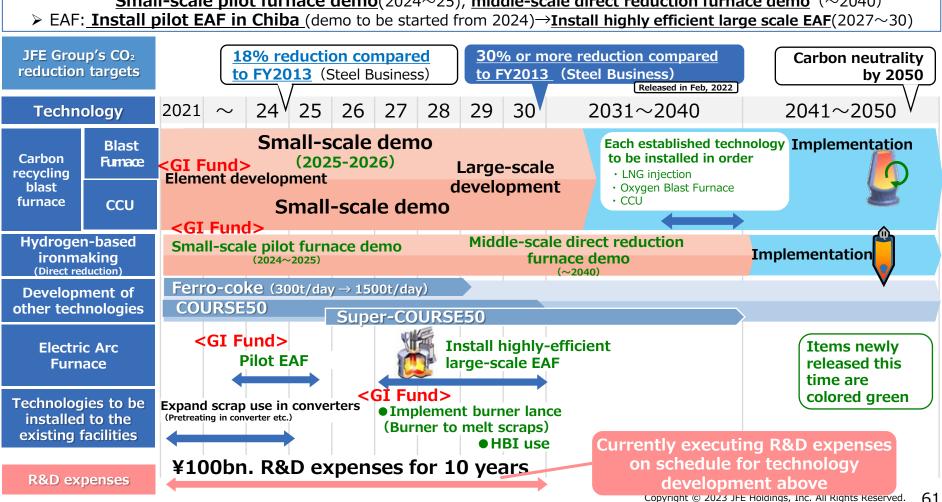




Revised our roadmap for realizing carbon neutrality in 2050, considering installing the technologies below in the concrete:

- > Carbon recycling blast furnace: **Each** established technology to be installed in order (late 2030s)
- > Hydrogen-based ironmaking:

Small-scale pilot furnace demo (2024 \sim 25), middle-scale direct reduction furnace demo (\sim 2040)





Carbon-recycle Blast Furnace

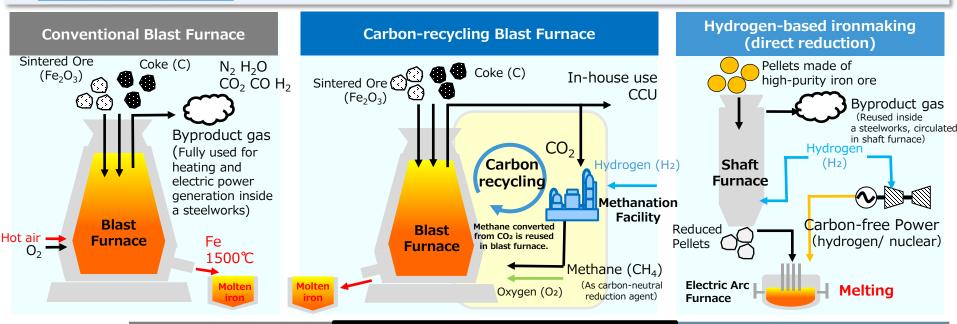






JFE

- <u>Technologies for reducing CO₂ emissions from blast furnaces are necessary</u> to maximize blast furnaces' advantages such as mass production, high-efficiency production, and high-grade steel production
- <u>Combining carbon-recycling blast furnace with CCU enables to reuse CO₂ inside a steelworks by using raw materials of the same grade as those used in conventional blast furnaces. By doing so, JFE aims to achieve <u>net</u> <u>zero carbon emissions.</u>
 </u>



	Conventional Blast Furnace	Carbon-recycling Blast Furnace	Hydrogen-based ironmaking (direct reduction)
Capacity	4M t / BF-year	4M t / BF-year (on par with Conventional BF)	2M t/ Shaft Furnace-year (current direct reduction ironmaking basis)
Reducing Agent	Coke + Pulverized Coal	Coke+Recycled methane (CH ₄)	Hydrogen (H ₂)
Raw Materials	Low-grade raw materials possible.	Low-grade raw materials possible.	Limited (High-grade iron ore)
CO ₂ Emissions	2/t-CO ₂ /1-ton of pig iron	Target: Zero (CO ₂ reduction in BF+CCUS)	Target: Zero (Carbon-free method)



Groupwide commercialization of offshore wind-power business (Study feasibility)

JFE-HD

- Become a pioneer in offshore wind-power generation business by commercializing manufacture of monopile and other seabed-fixed structures.
- Establish groupwide supply-chain such as monopile-structure manufacturing and O&M
- Aim to expand renewable energy business by leveraging group synergy effect, taking JFE Engineering as a main driver.

O&M: Operation and Maintenance. Apply expertise of maintenance and analysis technologies.

JFE Engineering

Manufacture and market monopile and other seabed-fixed structures for offshore wind-power generation



Provide steel products

JFE Steel

Increase capacity for heavy, extrathick steel plate for offshore windpower applications

Utilizing NO.7 new continuous-casting equipment in Kurashiki district (Start operating in FY2021)

Provide steel products

Carry out SCM Provide steel products

JFE Shoji

Contribute to groupwide cooperation by carrying out SCM of steel materials and processed products for offshore wind-power generation

Carry out SCM

Subsidiaries/ Affiliates

JMU: manufacture power-generation floating structures and construct work vessels. **Groupwide**: O&M making maximum use of group resource

Social sustainability: Safety management, HR issues

Ε





sarety management

Further increase efforts to prevent accidents not only <u>by using facilities</u> but also through <u>safety education and obedience of rules</u>, in order to <u>achieve</u> <u>top-priority goal of zero major accidents</u>.

Groupwide investment for safety issues: Approx. <u>10 billion yen/year</u> Implement multifaceted health/safety management using advanced IT (monitoring, detection, etc.).

Facilitate employee participation

Proceed following initiatives in order to allow employees to maximize performance and **enhance groupwide competitive advantages**

Diversity & Inclusion	Maximize capabilities of employees with diverse background
Personnel development	Improve individual abilities and develop skills for global competence
Workstyle reforms	Create workplaces and internal structures to maximize employees potential and enable them to work safely and confidently



Social sustainability: Contribution to Regional Societies through Engineering Business





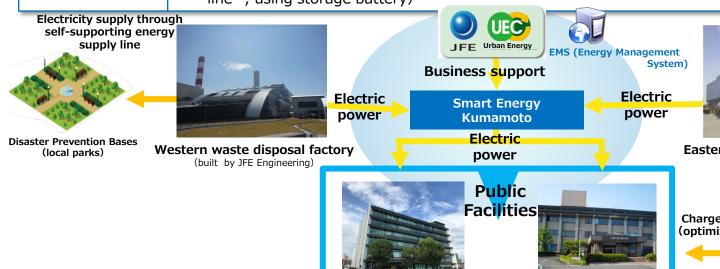


- Expand bases of local production and local consumption business (Food-recycling) business and regional PPS business)
- Contribute to the regional society considering to expand combined utility service business in the future.
- Realize circular economy by developing this business

(Example) Local PPS Business: Smart Energy Kumamoto

Points

- **Local production** of energy for **local consumption** (Local generation of renewable-energy power to be consumed in the regional societies)
- 2. Return economic merits to the city fund. (Investment for renewable energy and energy saving by citizen)
- Strengthen disaster prevention and energy saving (Establishing self-supporting energy supply line**, using storage battery)





Eastern waste disposal factory

- Demand: 226 public facilities in the city ■ Energy source
- Western waste disposal factory: 5,980kw Eastern waste disposal factory: 10,500kw

Charge/Discharge (optimized control)





Establish economic sustainability (stable earnings power)

Establish <u>sufficient profitability</u> and <u>stable financial base</u> for <u>proactive business operation</u> for the mid/long-term growth

- 1. Shift focus of domestic steel business from quantity to quality —Pursue world-class earnings power
 - Achieve world-class cost and quality competitiveness
 - Expand margins and achieve stable profit
- 2. Promote growth strategies
- 3. Significantly enhance competitiveness <u>through</u>

 DX
- 4. Balance <u>financial soundness with effective</u> <u>investment</u> based on a "select and concentrate" approach



7th mid-term business plan <Steel Business>

Aim to achieve world-class per-ton profit and enhance strategies for global growth Promote innovation for carbon neutrality

Main initiatives

- 1. Transition to a lean, robust business structure by shifting focus from quantity to quality
- 2. Expand and accelerate overseas business via solutions based on knowledge, skills, and data
- 3. Use digital technology to strengthen production base and strategies for new growth
- 4. Pursue innovation aimed at achieving carbon neutrality

Targets FY2024

Per-ton profit 10,000yen/ton* (Segment profit ¥230.0bn.)

*Segment profit / unconsolidated sales volume in tons

Cf. 2H of FY2020 (actual)

- Per-ton profit 6,000 yen/ton
- · Segment profit ¥70.8bn.

Equipment & Business Investment : 1,080bn. over 4 years

- 40% for GX, DX, equipment modernization and profitability improvements (6th mid-term actual:20%)
- 30% for maintenance investments (6th mid-term actual:50%)



Transition to a lean, robust business structure by shifting focus from quantity to quality

Improve <u>per-ton profit</u> by both <u>fixed cost reduction</u> and <u>increase of high value-added products ratio</u>, and <u>enhance earning base</u>.

Achieve world-class cost and quality competitiveness

- Cost reductions: ¥120bn. over 4 years
- Labor productivity: +20%
 (13% via structural reform + 1,670→2,000t/person/year via DX etc. Number of employees: 16,000→13,000)
- Establish profit base that is resilient to changes in economic conditions by completing structural reforms
 - Greatly reducing fixed costs
 - Lowering breakeven points
- Introduce new technologies through DX
 - Improve production efficiency and yields
 - Greatly improve labor productivity
- Ensure quality competitiveness by improving product quality, production efficiency and our delivery

Expand margins and achieve stable profit

- Increase mix of highly value-added products* to an unprecedented 50%
 - *Products that offer technological advantages, are recognized by customers for their value added and have greater earnings power than commodity products.
- <u>Product-mix enhancements</u> by focusing on selective concentration in priority fields
 - Increase non-oriented electrical steel sheet production capacity
 - Increase capacity for heavy, extra-thick steel plate for offshore wind-power applications
 - Production of high-tensile steel sheet for automotive
- Fully overhaul our sales pricing

Ensure that products offering the type of high value that customers seek are suitably recognized in the market, based on which we aim to fully overhaul our sales pricing



Expand and Accelerate Overseas Business

- Expand returns from 1. vertical specialization business such as steel production applied for automobiles
- Further deepen integrated production in high-demand market (2. "Insider" business)
- **Expand 3. solution business**, in which we provide cutting-edge technologies, operations and research knowhow (aim to triple earnings in FY2024 compared to FY2020)

India

JSW

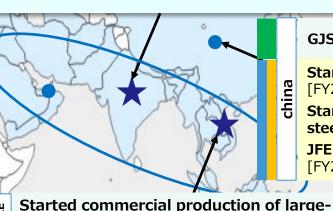


- Investment in 2009 (current equity ratio 15%)
- Further deepen direct participation such as beginning FS of establishing a grain-oriented electrical steel sheet manufacturing company

1. Vertical specialization business

2. "Insider" business

3. Solution business



GJSS started renewal construction [FY2020]

Started JV of production of iron powder (BJCMX) [FY2018]

Started JV of production and sales of specialty bar steel (BJSS)[FY2019]

JFE Chemical Established JV of anode materials [FY2019]

NUCOR-JFE STEEL MEXICO Began Operating Hot-dip Galvanized Steel Sheet Production Facility for Automotive Applications[FY2019]



FHS

diameter welded pipe (AGPC) [FY2019]



JSGI (Indonesia) ·JSGT (Thailand) production and sales of galvanized steel sheet and cold-rolled steel sheet for automotive



Investment in 2015 (current equity ratio 4%)



Examples of Steel Business's Critical Initiatives: Strategy to Capture Growing Demand for Electrical Steel Sheet



To expand non-oriented electrical steel sheet (N/O) production capacity

Released April 1, 2021

JFE Steel decided that it would expand the electrical steel sheet production capacity of its West Japan Works (Kurashiki District) amid increasing demand for high-grade N/O applied for EV and HEV motors.

<Demand forecast of high-grade N/O>

The global movement to tighten and accelerate environmental regulations will rapidly increase demand for high-grade N/O, which are essential for production of motors that drive electric vehicles.

CAPEX	Approx. 49.0bn.
Expected time to start production	1H of FY2024
Expected capacity	Doubling the facility's existing capacity for producing high-grade non-oriented electrical steel sheet
CO ₂ reductions	Approx. 1.5Mt-CO ₂ /Year*



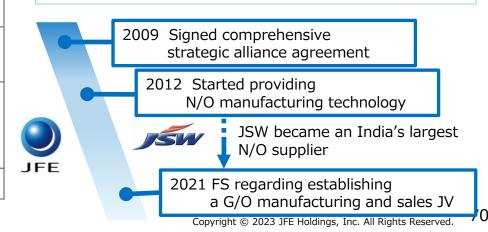
To conduct FS of grain-oriented electrical-steel-sheet JV with JSW in India

Released May 7, 2021

JFE Steel signed a memorandum of understanding to conduct a feasibility study with JSW, JFE's strategic alliance-partner in India, regarding establishing a G/O manufacturing and sales joint-venturecompany in India.

<Demand forecast of G/O>

Demand for G/O, which are used for the iron cores of power transform, is expected to grow globally amid continuous increase in demand for electric power and expansion of reusable energy. (Economic growth in India is estimated to boost its local demand for electric power.)



*CO2 reductions effect resulting from expanding EV/HEV



JFE Group-wide Strategy to Capture Growing Demand for Electrical Steel Sheet (Steel Business and Trading Business)

JFE Steel

Production of electrical steel sheets

Expand production and supply function of high value-added electrical steel sheets

JFE Shoji

Processing and distribution of electric cores

World's No.1 global distribution and processing system

Increase electrical steel sheet production capacity

Sharing Strategies



Expand collaboration with alliance partners



Production & sales JV with India's JSW for electrical steel sheets

Synergy



Expand processing functions in coil centers

Groupwide Strategy: Capture increasing demand for high value-added electrical steel sheets both in domestic and overseas market

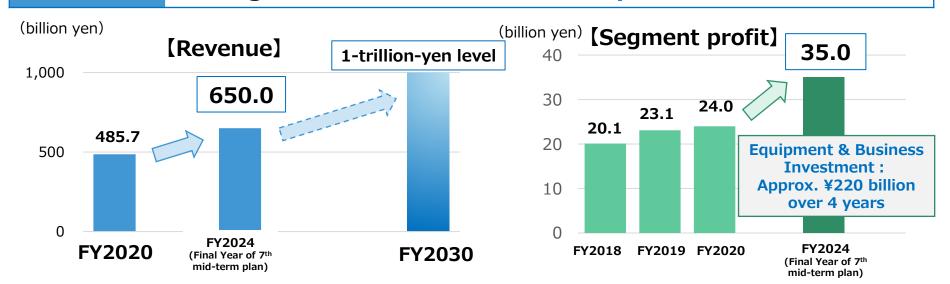


7th mid-term business plan < Engineering Business >

Expand sales revenue to 1-trillion-yen level in FY2030

Targets FY2024

- Revenue
 - Segment Profit 35
- 650.0 billion yen 35.0 billion yen



Main initiatives

- 1. <u>Enhance mid/long-term priority areas</u> (See next page) Waste to Resources, Carbon-neutral business, Combined utility service, Core infrastructure
- 2. <u>Expand overseas business</u> enhance EPC competitiveness, engage in ODA, pursue M&A synergies in chemical plant field, participation in local business in environmental, water and recycling fields
- 3. Promote DX initiatives



Engineering Business's Main initiatives -Enhancing mid/long-term priority areas-

- Expand engineering business as a growth sector by helping to solve pressing issues in global society, in view of increasing importance of the environmental, recycling and renewableenergy fields.
- Expand revenue and profit by setting the following four priority areas:

Waste to Resource

FY2024 revenue target ¥290 billion

- Establish stable profit base in domestic environment business
- Priority investment and expansion of domestic market in recycling business* *Food, Plastic, Incineration and Power generation



Carbon Neutral

FY2024 revenue target **¥80 billion**

- Put priority in renewable energy (offshore wind-power generation, biomass power plant, solar power plant, geothermal power plant etc.)
- Develop carbon neutral technologies.



Combined utility services

FY2024 revenue target **¥20 billion**

 Shift to comprehensive business model, including for efficient operation of facilities to contribute to energy savings and decarbonization



Core infrastructure

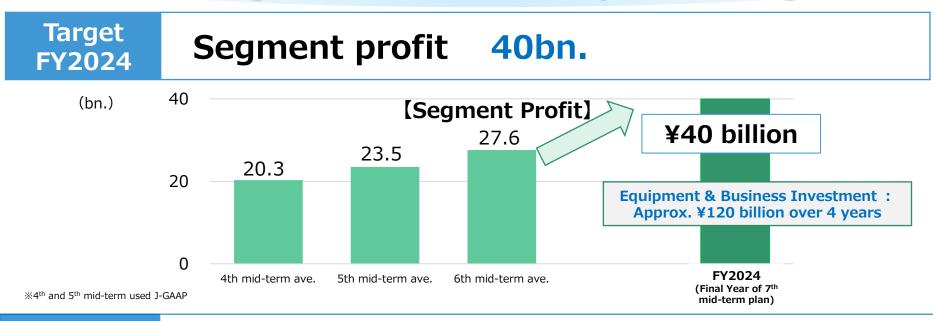
FY2024 revenue target **¥260 billion**

- New technologies to address newly arising needs for strengthening and improving life of infrastructure
 - Strengthening of existing infrastructure →install new product and method for construction
 - Improving life of existing infrastructure→install new materials and new products
- 1. Waste to Resource: Recycling and waste-to-power generation etc. 2. Carbon neutral: Renewable energy, carbon recycling etc.
- **3. Combines utility services**: contribute to the local-production and local-consumption (circular economy) by mutual combination among various operation and maintenance business such as water, gas, electricity supply and recycling business/
- 4. Core infrastructure: infrastructure business to establish social foundation such as bridge and pipedimezo23 JFE Holdings, Inc. All Rights Reserved.



7th mid-term business plan <Trading Business>

Establish growth foundation by enhancing SCM



Main initiatives

1. Proceed key strategies for growth

Establish No.1 position in global processing & distribution of electrical steel sheet, Strengthen SCM of automotive steel composite materials, Accelerate efforts in overseas construction materials business, Fully capture steel demand in Japan

2. <u>Strengthen purchasing & sales capabilities</u> (expand non-JFE Steel business)

Increase sales of both JFE group products and alliance-partner products as well as actively expand business with other suppliers' products

3. Seize new business opportunities

Expand environmental-solutions business, DX initiatives



Trading Business's Main initiatives

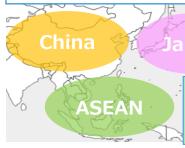
-Key Strategies for growth, Strengthen purchasing and sales capabilities-

Strengthen SCM of Automotive steel

Enhance SCM for high-tensile steel both in overseas and domestic market to increase sales of JFE's strategic products

Further collaboration with JFE Steel both in domestic and overseas market

 Along with the EV and HEV promotion and increasing needs for lighter body of automobiles, application volume of high-tensile steel for automotive is expected to increase because of its characteristics and environmental-friendly advantages.



Strengthen SCM along with groupwide optimum business

across four-pillar regions

US

Accelerate efforts in overseas construction materials business

 In ASEAN and North American regions, <u>expand</u> <u>trading</u> in this sector and <u>collaborate with local</u> <u>companies</u> to strengthen business foundations.

Fully Capture steel demand in Japan

Increase earnings by enhancing JFE Group's presence <u>through expansion of function</u> (quality) and <u>additional trading (quantity)</u>

Strengthen processing and distribution in domestic steel business

- <u>Strengthen SCM</u> continue to strengthen collaboration beyond group boundaries and establish optimum processing and distribution system
- Widen processing functions to expand business expand capabilities including secondary and tertiary processing to build strong foundation to meet various types of clients' needs

Pursue the best sales structure by sharing strategies with JFE Steel in the domestic market, which is the most critical

Expand non-JFE Steel business

Aim to expand business to meet clients' needs.
 Increase sales of both JFE group products and alliance-partner products as well as actively expand business with other suppliers' products



JFE Group's DX strategies

- Promote DX in every business area such as advancing productivity through innovation, transforming exiting businesses and creating new businesses.
- Proactively invest money and human resource necessary for DX :

DX investment approx. 120 billion yen over 4 years

JFE Steel

Use digital technology to streamline production operations and implement new growth strategies

Target

Labor productivity: 20% improve*

*FY2024 structural reform 13%+ DX effects etc.

Invest ment

115 billion yen over 4 years

JFE Engineering

Digitalize entire business and provide new digital services to customers.

Target

Design efficiency: 20% increase in FY2024

JFE Shoji

Improve customer service, pursue new businesses by leveraging DX

<JFE Steel's initiatives>

- **Enhance competitiveness** by introducing cyber-physical systems on all production lines
 - Improve production efficiency, labor productivity and yield ratio etc.
- Utilize digital technologies to raise customer satisfaction through quality enhancements and better delivery services.
- Actively expand solutions businesses



Balance Financial Soundness with Effective Investment based on a "select and concentrate" approach

- Selective maintenance investment, focusing on investments for enhancing competitiveness and establishing stable profit base
- **Ensure earning source by asset compression**

Equipment & Business Investment about 1,450 billion yen over 4 years

 <u>Equipment investment</u>: Approx. <u>1,200 billion yen</u> over 4 years GX: About ¥340 billion over 4 years*, DX: About ¥120 billion 4 years

Execute maintenance investment carefully selected from the perspectives of effectiveness and necessity Shift focus on investment for improving profitability and cutting-edge facilities

Business investment: About 250 billion yen over 4 years

Steel business: expand overseas insider businesses, Engineering business: expand operation & maintenance business and overseas business

Trading business: business investment including M&A for increasing earnings from processing and distribution business

*Steel Business: ¥160 billion Engineering Business: ¥130 billion Trading Business: ¥50 billion

Ensuring earning source

Generate cash by asset compression: Approx. 200 billion yen over 4 years Assets that contribute little to earnings or are tied to unprofitable businesses**

Returns to shareholders 3.

Dividend payout ratio: Around 30% on par with the target during 6th mid-term business plan

^{**}Regarding development plans for partial area of Keihin district resulting from structural reform (Ogishima area): We will disclose development plans in FY2023, and strive to see some properties put to new use by FY2030.



Main Financial Data and Performance & Profitability Targets

		7 th mid-term business plan FY2024	FY2020 Actual
Consolidated	Business profit	¥ 320.0 billion	¥ -12.9 billion
	Profit attributable to owners of the parent	¥ 220.0 billion	¥ -21.8 billion
	ROE	10%	-1.3%
	Debt/EBITDA	About 3x	8.1x
	D/E*1	About 70%	93.2%
Operating companies	Steel business Profit per ton*2 Segment profit	10,000 yen/ton ¥ 230.0 billion	-3,000 yen/ ton ¥ -65.4 billion
	Engineering business Segment profit Revenue	¥ 35.0 billion ¥ 650.0 billion	¥ 24.0 billion ¥ 485.7 billion
	Trading Business Segment profit	¥ 40.0 billion	¥ 20.0 billion
	Payout ratio	7 th mid-term business plan Around 30%	6 th mid-term business plan Around 30%

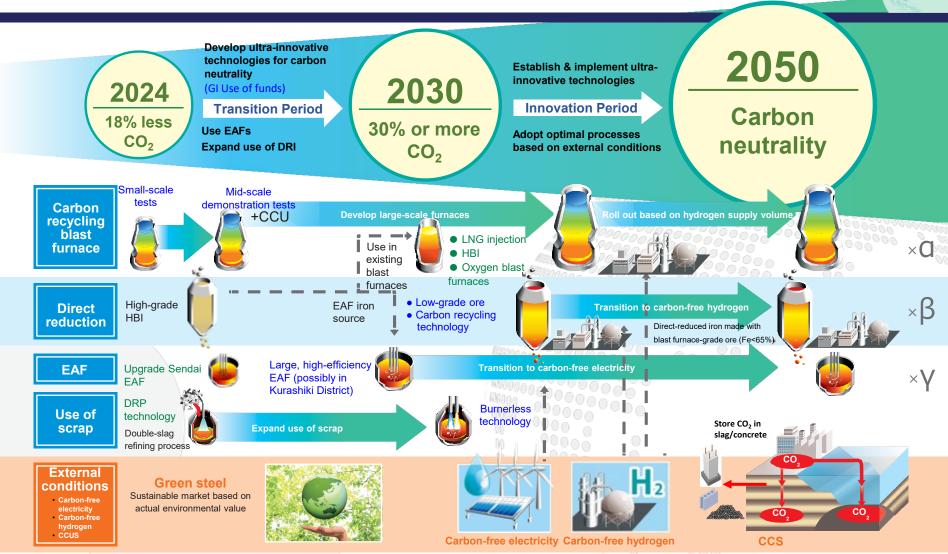
^{*1} For liabilities with equity subject to credit ratings, these equities reflect the evaluations of rating agencies

^{*2} Steel business profit per ton (consolidated segment profit / non-consolidated sales volume) ppyright © 2023 JFE Holdings, Inc. All Rights Reserved.

Appendix(4) JFE Steel Carbon Neutral Strategy Briefing

JFE Steel's Transition to Low-carbon Processes

Environmental Vision 2050

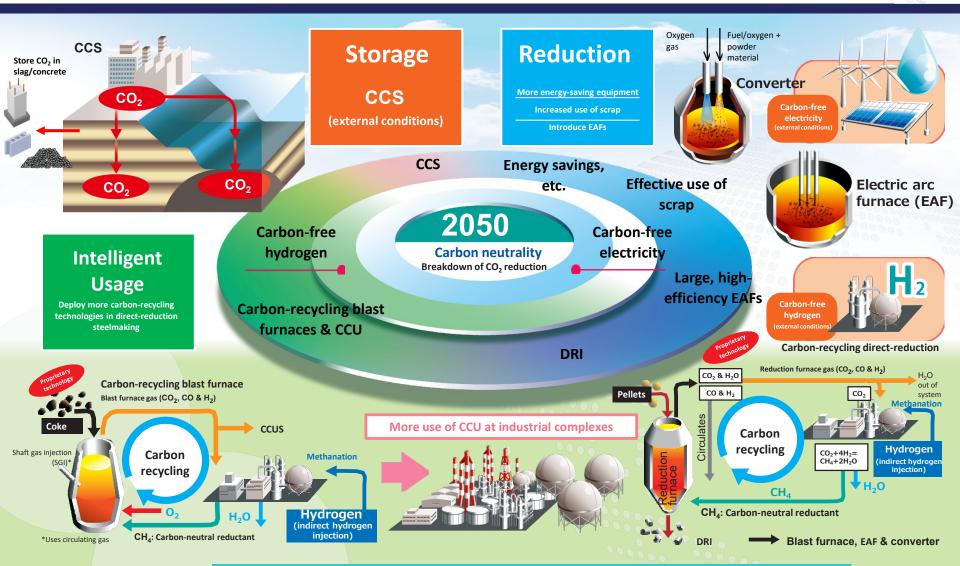




Pursue multilayered technology development, via GI Fund projects, etc., to discover the most proven technologies and then achieve carbon neutrality by deploying the most optimized configuration of green steelmaking processes.

JFE Steel's Carbon Neutrality Vision 2050







Combine reduction, intelligent usage and CO₂ storage to realize a carbon-neutral steel business by 2050

JFE's Carbon Neutrality Action Plan



- ▶ JFE Steel is introducing low-carbon steel processes during its "transition period" to 2030.
- ▶ In its "innovation period" from 2030 to 2050, JFE Steel aims to develop and implement ultrainnovative technologies for carbon neutrality.

Transition period

- Increasingly deploy low-carbon technologies through capital investment to achieve targets such as cutting 2013-level CO₂ emissions by 30% or more by 2030
- Accelerate multitrack R&D targeting ultrainnovative technologies for innovation period
- Create markets for renewable green-steel materials based on actual environmental value
 → Create initial demand

Stimulate demand through government policy

Innovation period

- Swiftly establish and deploy ultra-innovative technologies
- Collaborate with communities and industrial
 complexes toward carbon neutrality
- Grow markets for sustainable green steel based on actual environmental value
 - →Grow demand leading to virtuous cycles

Maintain the competitiveness of Japanese steel through plentiful, low-cost, stable supplies of carbonfree hydrogen and electricity



Behavior must be shifted on both supply and demand sides to create markets for green steel

Transition to Low-carbon Processes



- ► Continue to develop ultra-innovative technologies for decarbonized steel processes by 2030
- ► Increasingly use low-carbon technologies to cut CO₂ by 30% or more by FY2030

Energy savings and high efficiency

Upgrade to high-efficiency coke ovens

Fukuyama District (2025)

Improve efficiency of powerdemand facilities

(Electrify blast-furnace blowers, raise efficiency of oxygen plants, etc.)

All districts (under way)

Leverage AI & DS (companywide CPS, etc.) for energy savings

All districts (under way)

Low-carbon feedstock & fuel

Expand use of scrap in converters Use direct-reduced iron (HBI)

All districts (under way)

Securing Scrap and HBI Reinforcing storage depots

All districts (under way)

Bolster LNG supply network

Low-carbon processes

Upgrade existing EAFs

Sendai Works (2024)

Introduce large, high-efficiency **EAFs**

Kurashiki District (2027-2030)

Use ferro-coke for commercial production

Fukuyama District (TBD)

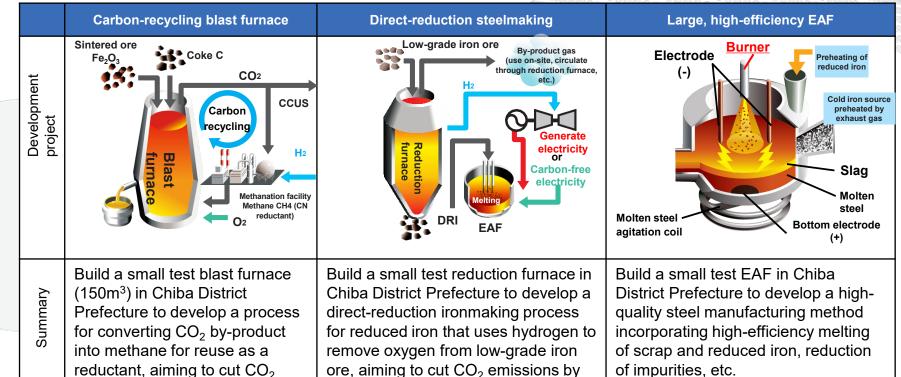
- ✓ To reduce CO₂ emissions by 30% or more by 2030, 1 trillion yen in capital investment will be needed for low-carbon initiatives (large electric furnaces, ferro coke, scrap and reduced iron, LNG, etc.).
- ✓ A market that reflects the actual environmental value of green steel must be created to support capital investment in decarbonization technologies.



Development Project Supported by Green Innovation Fundivironmental Vision 2050

- No.
- ➤ This project, targeted at using hydrogen in ironmaking and commissioned and subsidized by NEDO*, was selected in December 2021 to receive support from the Green Innovation Fund.
- ▶ The fund is helping to accelerate the development of technologies for achieving carbon neutrality.
- ► Formed a consortium with three steel companies and JRCM** and held the first meeting of the Hydrogen Iron and Steel Committee in June 2022.

*New Energy and Industrial Technology Development Organization **Japan Research and Development Center for Metals



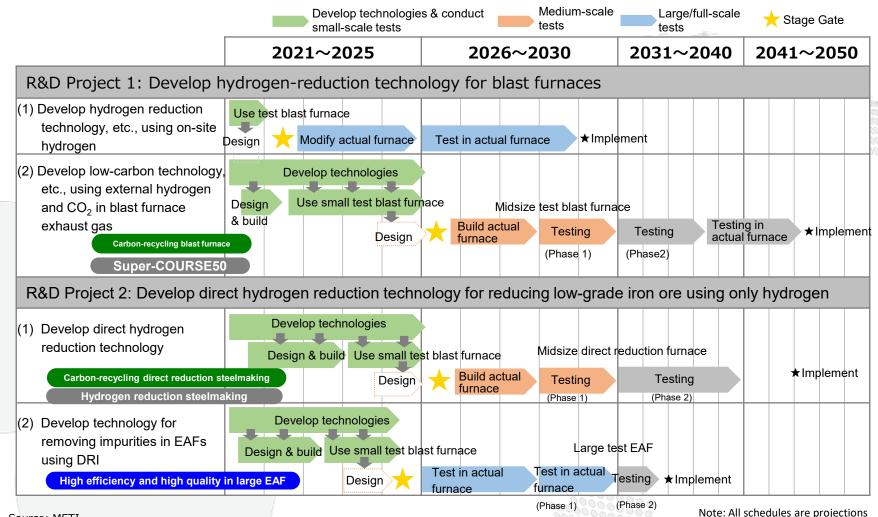
50% or more vs. blast furnaces.

emissions by 50% or more.

Overall Scale of GI Fund Projects



- Development toward Stage Gate Reviews scheduled mainly in FY2025–2026
- Studies also underway with a view to actual implementation in 2030–2040s





Source: MFTI

Stimulating Demand for Green Steel



- In the EU, green steel is branded and sold using a mass balance approach.
- ► Achieving 30% CO₂ reduction by FY2030 will enable JFE Steel to supply up to 5M tons of green steel per year using the same approach.
- To create a carbon-neutral world, government policies need to encourage behavioral changes in both the supply and demand sides in order to drive changes in society and spark innovation for new industrial competitiveness.

Supply side

- Huge capital investment is needed to introduce lowcarbon & ultra-innovative technologies. (1 trillion yen in low-carbon investments by 2030)
- While JFE Steel will strive to minimize R&D cost increases, some increase will be inevitable in the effort to create new environmental value.
- Prospects for appropriate returns on such investments also will be needed.

Demand side

- Green steel products do not directly benefit consumers in terms of better quality, performance, convenience, etc.
- Ethical consumption appears to be on the rise, but in Japan awareness of environmental value is low.
- Incentives are needed to encourage the recognition of environmental value and the purchase of products that significantly reduce carbon.



To support investment in low-carbon technology during the transition period until 2030 and to prepare for further large-scale investment during the innovation period, a green steel market must be created at an early stage (transition period) and government policies must raise the public's awareness as well as encourage steel consumers to change their behavior.

Initiatives for Collaborating with Society



- Realizing carbon-neutral steelmaking is a top priority for JFE Steel, but generating environmental value will involve large cost increases, so there are limits on what a single company can do.
- Mechanisms are needed so that society, as the beneficiary of green steel, helps to cover the associated cost increases through government support, collaborative initiatives, etc.

Huge R&D and facility installation costs

- Achieving CN by 2050 will be a major technological challenge requiring huge R&D outlays.
- Transitioning steelworks to carbon-neutral processes will require even greater capital investment.
- Long-term government support will be needed to shoulder the financial costs of achieving carbon neutrality.

Deliver environmental value and create markets during transition

- Government support is needed for capital investment in low-carbon technologies by 2030
- A mechanism is needed to create a market where costs commensurate with green steel's environmental value can be shared with customers and society

Develop infrastructure for carbon-neutral steelmaking and fuel inter-company collaboration

- Develop infrastructure for the low-cost, stable, large-scale supply of carbon-free hydrogen and electricity needed for carbon-neutral steelmaking
- Develop an execution platform for CCUS and green infrastructure implementation through collaboration with industrial complexes, corporations, etc.

Economic policies targeting green-transformation investment and international competitiveness

- Ensure international competitiveness of industrial electricity prices
- Introduce tax system that encourages implementation of ultra-innovative technologies, such as the abolition of depreciable asset taxation and the avoidance of a carbon tax before the establishment of decarbonizing technologies
- Carbon Border Adjustment Measure (CBAM) should be consistent with WTO rules. Ensure a level playing field in cooperation with other countries



