Securities Code : 5411.T



JFE Group Financial Results for Fiscal Year 2023 ending March 31, 2024

JFE Holdings, Inc. May 7, 2024



Aspirations as new CEO (Vision)

- 7th Mid-term plan : Establish profit base that is resilient to external environment through "Structural reform" and "Shifting from quantity to quality"
 Rusiness profit* is expected to reach 225 billion yop in EV2024
 - \Rightarrow Business profit* is expected to reach 335 billion yen in FY2024. *excluding inventory valuation

$\langle Vision: Create a solid profit base for overcoming the era of Carbon Neutrality \rangle$

- Aiming to double group business profits, promote aggressive investment based on stable profits and improve corporate value.
- Complete the development of ultra innovative technologies to achieve CN in the mid-2030s

"Long-term Vision" and "8th Mid-term plan" to be released at the end of FY2024





Aspirations as new CEO (Key Challenges)

Make Keihin district land utilization the fourth pillar of future earnings

Steel · Engineering · Trading Businesses

Land Reuse in Keihin district ~Leads Japan's Carbon Neutrality~

2 <u>4 perspectives to improve Corporate Value</u>

Double Profitability

- Accelerating the shifting from quantity to quality
- Aggressive investment in growth fields and regions

GX Strategy

- Developing ultra innovative technologies and reducing GHG emissions during the transition period (investing twice as many human resources as before)
- Providing products and services to realize a CN society

DX Strategy

- Improving productivity through AI utilization, automation, robotization, and remoteization
- Building a platform for new business creation

HR Strategy

- Promotion of human capital management
- Securing and developing human resources that will be the driving force for growth
- Creating a new corporate culture
- Proactive investment in human capital

3



A table of contents

- Financial Highlights
- Progress of the 7th Medium-Term Business Plan
 - Economic Sustainability
 - Environmental & Social Sustainability
- > JFE Holdings' Financial Results for Fiscal Year 2023 (April 1, 2023 to March 31, 2024)
- Financial Forecast for Fiscal Year 2024

> Dividends

Appendix 1: Profit/Loss Analysis

Appendix 2: Business Environmental Indicators, etc.

Appendix 3: The 7th Medium-Term Business Plan

Appendix 4: JFE Steel Carbon Neutrality Strategy Briefing (Excerpted)

This presentation material is for the purpose of publicizing the status of our company's financial results for FY2023. It is not a disclosure material under the Financial Instruments and Exchange Act and does not guarantee the accuracy or completeness of the information. It does not constitute a solicitation to invest in securities in Japan, the United States or any other countries. The forecasts presented are based on information received at the time of the briefing and include uncertainties. Therefore, please refrain from making investment decisions based solely on this document. Our company shall not be liable for any damages arising as a result of the use of this document.



- FY2023: Amid the challenging business environment, the business profit* increased sharply by 133.4 billion yen from the previous fiscal year due to improvements in domestic sales prices and structural reforms that reduced fixed costs.
- FY2024: The business profit* is expected to increase by 38.8 billion yen from the previous year to 335.0 billion yen due to the increase in the ratio of high value-added products, etc., and annual dividend is expected to be 110 yen.
 *Excluding Inventory Valuation etc.

Results for FY2023	Business Profit¥298.2bn.(Increased by ¥62.4bn. year-on-year, Increased by ¥8.2bn. from previous forecast)[Excluding Inventory Valuation etc.]¥296.2bn.(Increased by ¥133.4bn. year-on-year, Increased by ¥1.2bn. from previous forecast)Dividend100yen (As previous announced)
Forecast for FY2024	Business Profit¥300.0bn. (Increased by ¥1.8bn. year-on-year)[Excluding Inventory Valuation etc.]¥335.0bn. (Increased by ¥38.8bn. year-on-year)7th Mid-term plan •Business profit: ¥320.0bn. •Steel Business Profit per ton 11,000yen/t*Steel business profit: ¥320.0bn.
	Dividend 110 yen (Increased by 10yen from previous year)



Profitability Targets and Main Performance

			The 7 th mid-term business plan FY2024	FY2021 Actual	FY2022 Actual	FY2023 Actual	FY2024 Forecast
Consolidat	Business Profil [Excluding Invento	t ory Valuation etc.]	¥320.0bn.	¥416.4bn. [¥222.4bn.]	¥235.8bn. [¥162.8bn]	¥298.2bn. [<mark>¥296.2bn.</mark>]	¥300.0bn. [<mark>¥335.0bn.</mark>]
	Profit attributable to owners of the parent		¥220.0bn.	¥288.0bn.	¥162.6bn.	¥197.4bn.	¥220.0bn.
ted	ROE		10%	15.7%	7.9%	8.6%	8.7%
Op	Steel	Profit per ton* [Excluding Inventory Valuation etc.]	10,000 yen/t	14,000yen/t [6,000yen/t]	7,000yen/t [3,000yen/t]	10,000yen/t [10,000yen/t]	10,000yen/t [11,000yen/t]
erating c	Business	Segment profit [Excluding Inventory Valuation etc.]	¥230.0bn.	¥323.7bn. [¥129.7bn.]	¥146.8bn. [¥73.8bn.]	¥202.7bn. [¥200.7bn.]	¥205.0bn. [¥240.0bn.]
compan	Engineering Business	Segment profit	¥35.0bn.	¥26.0bn.	¥13.4bn.	¥24.3bn.	¥20.0bn.
ies	Trading Business	Segment profit	¥40.0bn.	¥55.9bn.	¥65.1bn.	¥48.9bn.	¥50.0bn.

* Steel business profit per ton

(consolidated segment profit / non-consolidated sales volume)

Progress of the 7th Medium-Term Business Plan (Economic Sustainability)

7

Trends in steel business earnings

JFE

- We have established a management system that can secure profits even when crude steel production and export markets are weak.
- Segment profit * for fiscal 2024 is expected to exceed the 7th mid-term target of 230 billion yen. (Earnings per ton * are expected to exceed the 7th mid-term target of 10,000 * Excluding inventory valuation etc.





[Main initiatives of Steel Business] Improving of sales price and Product-mix enhancements

- FY2023: The spread including prices * improved significantly to + 5,000 yen/t (main raw material spread + 4,000 yen/t), despite weak overseas market conditions.
- FY2024: Promote measures to increase costs such as logistics and labor costs. The spread * including prices is expected to increase by 200 yen/t from the previous year.

*Spread including metals, energy, materials, logistics, labor costs, foreign exchange impact, etc.



- FY2023: The ratio of high value-added products * was about 48% due to expansion of sales of steel sheets for automobiles.
- FY2024: Expanded sales of top-grade non-oriented electrical steel sheets for main motor of electric vehicles and heavy, extra-thick steel plate for offshore wind-power are expected to achieve the medium-term target of 50%.

*Products that offer technological advantages, are recognized by customers for their value added and have greater earnings power than commodity products.



Initiatives to increase the ratio of high-value-added products

- Shut down of upstream facilities and hot rolling facilities in Keihin(Sep.2023)
- Reinforce extra-thick steel plate production line for offshore windpower application in Kurashiki(FY2023.2H)
- Reinforce Non-oriented Electrical Steel Sheet Production Line(FY2024.1H,FY2026)
- \cdot Sales expansion of automotive ultra-high strength steel sheet compatible with EV and CN



[Main initiatives of Steel Business] Structural reforms, cost reductions, etc.

- Due to shutdown of upstream facilities and hot rolling facilities in Keihin in September 2023, the structural reform in the current mid-term has completed.
 Achieved a reduction in fixed costs (45 billion yen) and significantly lowered the breakeven point.
 - \Rightarrow Expect to achieve a total cost reduction of 120 billion yen in the 7th mid-term.
- The solution business aims to contribute 10 billion yen in profit for FY2024. (3 times the FY2020 level)



JFE

Profit Trends in Engineering and Trading Businesses

As the profitability of Engineering business and Trading business improved, we expect to achieve segment profit of 70 billion yen/year level steadily in the 7th mid-term business plan.

80 3) Waste to Resource **Engineering Businesses** Segment profit 4) Design Build Operate Through the expansion of priority fields, mainly in WtR³/CN, the (billion yen) ratio of operation businesses increased contributing to profit stabilization. •WtR : Increase orders for waste-to-power generation DBO⁴) project. 60 ·CN : Expand electric power business through initiatives such as regional new electric power. Increase in orders for overseas projects: Launch of waste-to-power generation business (Viet Nam), large chemical plant (Singapore), etc. \Rightarrow laying the groundwork for future profit growth. 40 Trading business **Engineering Business** Increase in business investment profit mainly in priority fields (electrical steel, construction materials, automotive steel, etc.) due to M & A, etc. 20 Acquisition of CEMCO, a major U.S. building materials processing company(FY2022). JSS, the electrical steel sheet processing and sales company, Trading Business¹⁾ is established in Serbia. Capture the growing demand for motor cores in Europe. (Released on Mar. 27th, 2024) 0 Strengthening the earnings base of the construction materials \geq 4th 5th 6th 7th 3rd business through the acquisition of STUDCO (U.S. and Mid-termMid-termMid-termMid-term Australian construction materials processing companies). Average Average Average Average²⁾

(Released on May. 7th, 2024)

Before September 2012, ordinary profit of JFE Shoji before becoming a subsidiary of JFE Holdings was added up.
 Average of FY2021 to FY2023 and FY2024 forecast for the 7th mid-term business

JFE Engineering, JFE Shoji (Reference) Main initiatives on Engineering and Trading Businesses in 7th mid-term business plan JFE EN : Engineering business SH : Trading business (SH)Increase capacity (SH) Establishment of electrical steel sheet of JSC processing and sales company, Serbia (EN)Collective orders for construction and operation of waste treatment facilities (SH)Zhejiang, (SH)Increase capacity of JFE Shoji Construction of a new plant (SH)STUDCO M&A **Electrical Steel's Nagoya Works** (SH)Arfin, (EN)Start operation of the monopile plant, (SH)CEMCO M&A Stock acquisition Kasaoka (EN)Waste-to-power generation plant start operation, Bakunin (SH) Introduction of laser blanking line for automotive (EN)Start operation of the waste (SH)OM steel sheets, JSSB treatment facility, Beljaya Stock acquisition (EN)Order a large-scale chemical plant EPC

숨 (SH)STUDCO M&A

[Engineering business]

•Operation revenue : 6^{th} Mid-term $43\% \Rightarrow 7^{th}$ Mid-term $49\%^*$ •Overseas revenue : 6^{th} Mid-term $8\% \Rightarrow 7^{th}$ Mid-term $14\%^*$

[Trading business]

•Business investment profit : 6th Mid-term 32% \Rightarrow 7th Mid-term 44%* •Overseas profit : 6th Mid-term 40% \Rightarrow 7th Mid-term 54%*

* Change from the 6th medium-term average to the 7th medium-term average. The 7th medium-term average is the average of the results for fiscal 2021 to 2023 and the forecast for fiscal 2024.

Progress of the 7th Medium-Term Business Plan (Environmental & Social Sustainability)

CO₂ Emissions-reduction in JFE Steel

JFE

- CO₂ emissions-reduction is progressed in FY2023 as planned¹), and the FY2024 year-end target expect to be achieved. 1) FY2023 emission result will be reported in JFE Group Report 2024.
- Capital investment to achieve the FY2024 year-end target was approved 100%. For the FY2030 target, we will promote the approval of capital investment and implementation.

(million tons) 58.10	(∇13% (⊽7.72 million tons)			▽18% (⊽10.50 million tons)			∇ (⊽1	30 % or mo 7.40 million	re ²⁾ tons)	
	⊽7.72	50.38				47	.60	⊽6.9	90	40.70	
FY2013 Emissions Result		FY2022 Emissions Result	FY2 Emis estimate	023 sions ed res	ult	FY2 Tai	2024 rget			FY2030 Target	_
Aiming for 18% reduction by the end of FY2024 (KPI ³⁾ progress up to FY2023) ■ Capital investment Completed approval for 100% of total CO ₂ reduction in the investment plan against the CO ₂ reduction target* through energy savings and technological development→Achieved					ning ings high ficie	for 3 and n ncy	•Upgra •Upgra Fukuya •Impr facilit •Leve	ade to high-e ama(v16) rove efficien ies rage AI & D	eductio efficiency icy of po S	n by FY203 y coke ovens ir ower demand	0
Emissions reduction Achieve 75% of the CO ₂ reduction target [*] through energy savings and technological development					feedstock & fuel •Use reduced iron in blast furnaces an converters(\vee200)			(⊽150) and			
→Expected to b ■ Construction →Achieved (supple constructions, etc.)	e achieved (Result of publishe on of green sto ply at a premium pri)	will be reported in JFE Gro d in September.) Cel Supply System ce for shipbuilding	up Report Stem and	Ut	tilizi EAF	ng s	• Send • Chiba • Kuras * The proparenthes	ai: Upgrado a: Introduc shiki: Large jects in blue bold ses indicate the a	e existin e EAF f e, high- font are al mount of	ng EAF(⊽10) or SUS(⊽45) efficiency EA Iready approved. Nu eduction (10,000 to	F(⊽260) Imbers in ns/year).

JFE Group regularly reviews the CO₂ emissions-reduction target for further reduction. In FY2023, we reviewed and verified the progress of technological development and détermined that the current reduction target was appropriate. 14

JFE Steel



Progress in Development of Ultra-innovative Technologies

- Regarding CR blast furnace, a large amount of methane blowing test was carried out in the actual blast furnace (Keihin blast furnace before the shutdown), and it was confirmed that the in-furnace reaction was as expected*. Based on this knowledge, construction of a test blast furnace (150m³) was started. After the start of operation in April 2025, we will promote technological development for implementation*.
- The small-scale electric furnace and the small-scale direct reduction furnace are scheduled to start operation in August 2024 and in November 2024, respectively*.



JFE

Other Topics on Carbon Neutrality

Initiatives for Green Steel

- Sales of JGreeX[™], a green steel applying the mass balance method, started in FY2023. Sold at a premium price with additional CO₂ reduction value for shipbuilding, construction, and transformers, etc.
- In FY2024, we aim to expand sales of JGreeXTM to all varieties and all fields.

Initiatives for CCUS¹⁾

CCUS is essential to achieve carbon neutrality.

 \Rightarrow Focus on cooperation with domestic and overseas related companies.

- <u>CCS</u>
- Malaysia CCS

In addition to JAPEX, JGC HD, Kawasaki Kisen, and JFE Steel, Chugoku Electric Power and Japan Gas Line have joined the effort to build a value chain based on Japan for CO₂ injection projects in Malaysian sea area. (Released on Feb. 26th, 2024)

Setouchi / Shikoku CO₂ Hub Concept (Japan→Australia)

Reducing costs of CCS by collecting CO_2 from emitters scattered in multiple areas in Setouchi and Shikoku regions, and storing those emissions temporarily before the CO_2 is transported to Australia. (Sumitomo, JFE Steel, Sumitomo Osaka Cement, Kawasaki Kisen and Woodside Energy jointly conduct a business feasibility study.)

• <u>CCU</u>

► Establishing Supply Chain for Synthetic Fuel (e-fuel) (Japan→Australia)

To build a supply chain for e-fuel, four Japanese and Australian companies* agreed to jointly conduct a wide-ranging feasibility study covering on CO_2 capture in Japan, shipping the CO_2 to Australia, production and storage of e-fuel in Australia, etc. (*ITOCHU, HIF, JFE Steel, MOL, Released on Feb. 27th, 2024)

1) CCUS : Carbon dioxide Capture, Utilization and Storage







JFE steel's contribution to CO₂ reduction - Eco Product

Top grade	e electrical steel sheets	Steel plates for offshore wind power
Kurashiki NO CAPEX	#1 top-grade NO(Non-oriented electrical steel sheet).	Production of Large and heavy steel plate "J-TerraPlate™" has been started.
Start production	1H of FY2024	Produce one of the largest steel plates in Asia.
Kurashiki NO	* Tripling capacity for producing top-grade NO(Non-oriented electrical steel sheet).	•FY2021: Kurasniki No. 7 continuous caster start operation •FY2023: Upgraded facilities in the plate mill in Kurashiki.
CAPEX	Approx. 46.0 billion yen	
Start production	By the end of FY2026	A tube for monopiles Less welds
JSW GO J	V	$\stackrel{\text{finder with large size plates}}{\longleftrightarrow} \text{Longer tube length}$
САРЕХ	Approx. 670 million US dollars	A tube made with
Start production	Full production in FY2027	conventional-size •Shorter tube length
*GO: Grain-Oriented	d electrical steel sheet	
Ultra-higl	h strength automotive stee	I sheets



JFE Engineering

JFE Engineering's contribution to CO₂ reduction

 Contributions to CO₂ emissions reduction in FY2023 was 11.53million tons (Target: 11.50million tons)



Operation of renewable energy power plant (FY2023)

JFE

Start operation of renewable energy power generation facilities such as the Onikobe geothermal power plant and the Nyuzen wind power plant.



Operation of Kasaoka monopile plant

Start operation in April 2024. Production capacity is 100,000ton/year.

*Completion ceremony of Kasaoka monopile plant (March 19th, 2024)



Consolidated Results for Fiscal Year 2023

Financial Results for Fiscal Year 2023

Business profit in FY2023 was ¥298.2bn.

JFF

(increased by ¥8.2bn. from previous forecast, increased by ¥62.4bn. year-on-year)

Profit attributable to owners of parent in FY2023 was ¥197.4bn.

(billion yen)	FY2022 Actual	FY2023 Forecast		FY2023 Actual		Change ^{FY2022→} FY2023	Change Forecast →Actual
	Full year	Full year	1H	2H	Full year	Full Year	Full Year
Revenue	5,268.7	5,230.0	2,576.5	2,598.0	5,174.6	(94.1)	(55.4)
Business Profit [Excluding Inventory Valuation etc.]	235.8 [162.8]	290.0 [295.0]	164.3 [165.3]	133.8 [130.8]	298.2 [296.2]	62.4 [133.4]	8.2 [1.2]
Finance Income/Costs	(14.8)	(20.0)	(8.9)	(9.6)	(18.6)	(3.8)	1.4
Segment Profit	221.0	270.0	155.3	124.2	279.6	58.6	9.6
Exceptional Items	(10.7)	(4.3)	-	(11.2)	(11.2)	(0.5)	(6.9)
Profit before Tax	210.2	265.7	155.3	113.0	268.3	58.1	2.6
Tax Expense and Profit (Loss) Attributable to Non-Controlling Interests	(47.6)	(75.7)	(45.2)	(25.6)	(70.9)	(23.3)	4.8
Profit Attributable to Owners of Parent	162.6	190.0	110.0	87.3	197.4	34.8	7.4

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.

Financial Results for Fiscal Year 2023 (by Segment)

JFE

(billion yen)		FY2022 Actual	FY2023 Forecast	FY2023 Actual		Change FY2022→ FY2023	Change Forecast →Actual	
		Full Year	Full Year	1H	2H	Full Year	Full Year	Full Year
	Steel Business	3,881.1	3,760.0	1,865.8	1,850.2	3,716.0	(165.1)	(44.0)
	Engineering Business	512.5	550.0	248.4	291.5	539.9	27.4	(10.1)
	Trading Business	1,514.1	1,500.0	742.0	734.3	1,476.4	(37.7)	(23.6)
	Adjustments	(638.9)	(580.0)	(279.7)	(278.0)	(557.8)	81.1	22.2
Revenue		5,268.7	5,230.0	2,576.5	2,598.0	5,174.6	(94.1)	(55.4)
Bus	iness Profit (A)	235.8	290.0	164.3	133.8	298.2	62.4	8.2
Finai (B)	nce Income/Costs	(14.8)	(20.0)	(8.9)	(9.6)	(18.6)	(3.8)	1.4
	Steel Business	146.8	200.0	122.8	79.8	202.7	55.9	2.7
	Engineering Business	13.4	25.0	8.7	15.6	24.3	10.9	(0.7)
	Trading Business	65.1	48.0	26.8	22.0	48.9	(16.2)	0.9
	Adjustments	(4.3)	(3.0)	(3.1)	6.6	3.5	7.8	6.5
Seg (A+B	yment Profit	221.0	270.0	155.3	124.2	279.6	58.6	9.6

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

Copyright © 2024 JFE Holdings, Inc. All Rights Reserved.

21

JFE Steel Financial Results for Fiscal Year 2023



Financial Results for Fiscal Year 2023

			FY2022	FY2023				EV2022	
		Unit	Full					Full	Previous
			Year	1H	3Q	4Q	2H	Year	Forecast
R	evenue	billion yen	3,881.1	1,865.8	915.6	934.6	1,850.2	3,716.0	3,760.0
S	egment Profit	billion yen	146.8	122.8	48.2	31.7	79.8	202.7	200.0
	Excluding Inventory Valuation etc.*	billion yen	73.8	123.8	49.2	27.7	76.8	200.7	205.0
Ci (S	rude Steel Standalone)	Mt	24.10	12.16	5.62	5.67	11.29	23.45	Approx. 23.80
C (0	rude Steel Consolidated)	Mt	25.48	12.85	5.95	6.01	11.95	24.80	Approx. 25.10
SI (S	nipment Standalone)	Mt	21.74	10.65	5.08	5.04	10.12	20.77	Approx. 21.10
E> o (xport Ratio n Value Basis Standalone)	%	44.5	44.2	41.6	41.3	41.5	42.9	Approx. 43
A' (S	verage Sales Price Standalone)	000 yen/ t	130.8	129.3	132.5	135.2	133.8	131.5	Approx. 131
E	kchange Rate	¥/\$	135.1	139.9	148.7	146.7	147.7	143.8	Approx. 143
E: (E	change Rate End of Term)	¥/\$	133.5	149.6	141.8	151.4	151.4	151.4	Approx. 145

* Excluding inventory valuation, carry over, one-time structural reform costs and foreign exchange valuation from segment profit



¥2.7bn. Increase in JFE Steel's Segment Profit (FY2023 (Forecast) vs. FY2023(Actual))

				(billion yen)
JFE Steel	FY2023 Forecast	FY2023 actual		Change
Segment Profit	200.0	202.7		2.7
Excluding Inventory Valuation etc.	205.0	200.7		(4.3)

1.	Cost	±0.0	
2.	Volume and Mix	(6.0)	 Crude Steel Production approx. 23.80Mt⇒23.45Mt
3.	Sales and Raw materials	+8.0	 Improved spreads due continued sales price improvement efforts
4.	Inventory valuation	+7.0	 Inventory valuation +3.0 (+2.0→+5.0) Carry over -1.0 (+3.0→+2.0) Foreign exchange valuation +5.0 (+10.0→+15.0) One-time structural reform costs +0.0(-20.0→-20.0)
5.	Others	(6.3)	 Group companies-2.0 Foreign exchange effects on trade -1.0
			Copyright © 2024 JFE Holdings, Inc. All Rights Reserved. $ extsf{Z4}$

JFE Steel

¥55.9bn. Increase in JFE Steel's Segment Profit (FY2022 (Actual) vs. FY2023 (Actual))

JFE

						(billion yen)		
	JFE Steel	FY2022 Actual		FY2023 Actual		Change		
	Segment Profit		146.8	202.7		55.9		
	Excluding Inventory Valuation etc.		73.8	200.7		126.9		
1.	Cost	 • Structural reforms effect +20.0 • Operational improvement +25.0 • Disappearance of blast furnace refurbishment impact +1 • Disappearance of production reduction impact +10.0 						
2.	Volume and Mix	(4.0)	• Crude S	iteel Production 24.10Mt	:⇒23	.45Mt		
3.	Sales and Raw materials	+128.0	• Improved spreads due continued sales price improvemener efforts					
4.	Inventory valuation	(71.0)	 Inventory valuation -74.0 (+79.0→+5.0) Carry over +25.0 (-23.0→+2.0) Foreign exchange valuation -2.0 (+17.0→+15.0) One-time structural reform costs -20.0(+0.0→-20.0) 					
5.	Others	(65.1)	ForeignDepreci	exchange effects on tra ation cost -10.0 etc.	de -2	21.0		

JFE Engineering JFE Shoji Financial Results for Fiscal Year 2023



Financial Results for Fiscal Year 2023

JFE Engineering: Revenues reached a record high for the second straight of ¥539.9bn. (up ¥27.4bn. from FY2022) Segment profit was ¥24.3bn., in line with the previous forecast.

JFE Shoji: Segment profit was ¥48.9bn., increased by ¥0.9bn. from the previous forecast. (down ¥16.2bn. from FY2022)

Engineering Business

(billion yen)	FY2022 (Actual) (A)	FY2023 (Forecast) (B)	FY2023 (Actual) (C)	Change (From Previous Year) (C)-(A)	Change (From Previous Forecast) (C)-(B)
Orders	564.9	580.0	563.0	(1.9)	(17.0)
Revenue	512.5	550.0	539.9	27.4	(10.1)
Segment Profit	13.4	25.0	24.3	10.9	(0.7)

Trading Business

(billion yen)	FY2022 (Actual) (A)	FY2023 (Forecast) (B)	FY2023 (Actual) (C)	Change (From Previous Year) (C)-(A)	Change (From Previous Forecast) (C)-(B)
Revenue	1,514.1	1,500.0	1,476.4	(37.7)	(23.6)
Segment Profit	65.1	48.0	48.9	(16.2)	0.9

Financial Forecast for Fiscal Year 2024



Sales

ment

Raw

material

market

Current Business Environment (Steel Business)

- Domestic: In the automotive sector, activity levels remained steady despite the impact of certification issues and disasters. On the other hand, the postponement of demand continued due to the labor shortage and the surge in materials mainly in the civil engineering and construction fields. Demand for steel products in FY2024 is expected to be around FY2023.
- environ- Overseas: The deterioration of the supply-demand balance and the stagnation of market conditions continue due to an increase in exports from China and other countries where the real estate sector is in a slump. China's economic stimulus and crude steel control measures should be closely monitored, but the current environment is expected to continue to some extent.
 - Iron ore: Prices are expected to remain at current levels as demand for Chinese ٠ steel continues to slump.

Coking coal: Prices are currently falling due to sluggish production by suppliers and ٠ falling demand for steel products, but we expect to rise to a certain level due to demand in India and other countries.

Forecast for **FY 2024** Standalone crude steel production is expected to be approx. 23.4Mt, unchanged from the previous year. In view of the challenging business environment in which the current weak export spreads in overseas markets will continue to some extent, we have formulated forecast for fiscal 2024.

Financial Forecast for FY2024 (Steel Business)

JFE

	Crude Steel Production (JFE Steel standalone) for FY2024		approx. 23.4M	Excl	Exchange Rate		te 150 yen/\$	
(billion yen)		FY2023 Actual (A)	FY2024 Forecast (B)	Change (B)-(A)		Mid-Term FY2024 (C)	Change (B)-(C)	
	Segment Profit	202.7	205.0	2.3				
	Excluding Inventory Valuation etc.	200.7	240.0	39.3		230.0	10.0	
Change (B-A)			<u>×The difference from FY2024 ta</u> 260 billion ven (2024/2 appound			<u>get of</u> d) is		
1.	Cost	+42.0	 Structural reforms effect + 25.0 Operational improvement + 17.0 			vel		
2.	Volume and Mix	+10.0	Expanding sales of high-value-added products					
3.	Spreads*	+5.0	Continued sales price improvement activities					
4.	Inventory valuation	(37.0)	 Inventory valuation -17.0 (+5.0→-12.0) Carry over-25.0 (+2.0→-23.0) Foreign exchange valuation -15.0 (+15.0→+0.0) One-time structural reform costs +20.0(-20.0→+0) 					
5.	Others	(17.7)	 Group companies -4.0 Depreciation cost -4.0 					

*Spreads including various prices (metals, energy, materials, logistics, labor costs, foreign exchange effects, etc.) Copyright © 2024 JFE Holdings, Inc. All Rights Reserved.

Financial Forecast for FY2024 (Engineering Business)

(billion yen)	FY2023 (Actual) (A)	FY2024 (Forecast) (B)	Change (B)-(A)	7 th Mid-term (C)	Change (B)-(C)
Orders	563.0	600.0	37.0		
Revenue	539.9	580.0	40.1	650.0	(70.0)
Segment Profit	24.3	20.0	(4.3)	35.0	(15.0)

Comparison with the previous fiscal year

- Orders : Expect to increase orders in "Waste to Resource" and "Core infrastructure"
- Segment profit : Delay in ordering of offshore wind power foundation (monopile): ¥5.0bn., etc.

Comparison with the 7th mid-term business plan

 Segment profit : Delay in ordering of offshore wind power foundation (monopile): ¥5.0bn. Decrease in sales revenue (delay in ordering of WtR, etc.), Impact of surge in materials and equipment (overseas), etc. : ¥10.0bn.

From FY2025 onward, segment profit is expected to increase due to an increase in the utilization rate of monopile plant, mainly for domestic offshore wind power projects, and an increase in orders for WtR and CN projects.

Financial Forecast for FY2024 (Trading Business)

(billion yen)	FY2023 (Actual) (A)	FY2024 (Forecast) (B)	Change (B)-(A)	7 th Mid-term (C)	Change (B)-(C)
Segment Profit	48.9	50.0	1.1	40.0	10.0

Comparison with the previous fiscal year

• Segment profit is expected to increase by ¥1.1bn. from FY2023.

Comparison with the 7th mid-term business plan

 Segment profit is expected to increase by ¥10.0bn. over the current mediumterm business plan due to rising steel and raw material prices and the effects of various initiatives since the previous medium-term business plan.



Financial Forecast for FY2024

(billion yen)		FY2023 Actual(A)	FY2024 Forecast(B)	Change (B-A)
Revenue		5,174.6	5,390.0	215.4
Business Profit [Excluding Inventory Valuation etc.]		298.2 [296.2]	300.0 [335.0]	1.8 [38.8]
	Steel Business	202.7	205.0	2.3
	Engineering Business	24.3	20.0	(4.3)
	Trading Business	48.9	50.0	1.1
	Segment Profit (Including Adjustments)	279.6	280.0	0.4
	Exceptional Items	(11.2)	30.0*1	41.2
	Profit before Tax	268.3	310.0	41.7
Profit Attributable to Owners of Parent		197.4	220.0	22.6

*1 A profit of about ¥45bn. from sales of lands, and a loss of about ¥15bn. from the share transfer of GECOSS Corporation (including a loss on transfer of about ¥5bn. and about ¥10bn. from the remeasurement of the residual interest). We plan to apply the equity method to GECOSS Corporation after the share transfer.

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.

Dividends



- JFE Holdings has decided to propose at its general meeting of shareholders a year-end dividend of 50 yen per share, as previously announced. (annual dividend: 100 yen)
- The annual dividend for FY2024 is expected to be 110 yen per share, based on our payout ratio policy of approximately 30%.



35

Appendix(1) Profit/Loss Analysis


Main Financial Data

Notes

[IFRS]

JAAP					[IFRS]						
	FY15	FY16	FY17	FY18		FY18	FY19	FY20	FY21	FY22	FY23
(bn. Yen, times)					(bn. Yen, times)						
Ordinary Income	64.2	84.7	216.3	221.1	Business profit	232.0	37.8	-12.9	416.4	235.8	298.2
EBITDA	254.4	279.9	388.8	405.9	EBITDA *1	428.2	269.4	223.4	668.7	505.4	572.3
ROS	1.9%	2.6%	5.9%	5.6%	ROS *2	6.0%	1.0%	-0.4%	9.5%	4.5%	5.8%
ROE	1.8%	3.7%	7.6%	8.3%	ROE *3	8.6%	-11.1%	-1.3%	15.7%	7.9%	8.6%
ROA	1.7%	2.3%	5.2%	5.1%	ROA *4	5.0%	0.8%	-0.3%	8.4%	4.4%	5.3%
Debt Outstanding	1,379	1,375	1,331	1,450	Interest-bearing debt outstanding	1,524	1,814	1,806	1,849	1,863	1,830
Debt/EBITDA Ratio	x5.4	x4.9	x3.4	x3.6	Debt/EBITDA multiple *5	x3.6	x6.7	x8.1	x2.8	x3.7	x3.2
D/E Ratio	56.9%	51.4%	58.1%	62.0%	D/E Ratio *6	68.2%	96.4%	93.2%	80.8%	67.8%	58.0%
	•					_		_	_		
Profit attributable to owners of parent (yen/share)	58	118	251	285	Profit attributable to owners of parent (yen/share)	284	-343	-38	500	281	323
Dividend (yen/share)	30	30	80	95	Dividend (yen/share)	95	20	10	140	80	100
Pay-out Ratio	51.4%	25.5%	31.9%	33.3%	Pay-out Ratio	33.5%	-	-	28.0%	28.5%	30.9%

*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.

JFE

Cash Flow Improvements, Debt/EBITDA Ratio

- Net debt* was decreased to ¥1,587.1bn. by ¥156.4bn. from **FY2022** due to increase in cash and deposits by the capital increase.
- Debt/EBITDA ratio was improved to x3.2. *Net Debt = Debt - Cash and cash equivalents.



Copyright © 2024 JFE Holdings, Inc. All Rights Reserved.



Financial Results for Fiscal Year 2023

			FY2021			_		FY2022				FY2023					
		Unit	1Q	2Q	3Q	4Q	Full Year	1Q	2Q	3Q	4Q	Full Year	1Q	2Q	3Q	4Q	Full Year
F	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	948.6	915.6	934,6	3,716.0
s F	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	54.7	48.2	31.7	202.7
	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	64.7	49.2	27.7	200.7
(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	6.11	5.62	5.67	23.45
(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	6.47	5.95	6.01	24.80
<u>(</u>	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	5.42	5.08	5.04	20.77
E	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	44.2	41.6	41.3	42.9
4 F (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	130.1	132.5	135.2	131.5
E	Exchange Rate	¥/\$	109.8	110.0	113.1	115.3	112.1	126.5	136.6	144.0	133.2	135.1	135.8	144.1	148.7	146.7	143.8
E F (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	149.6	141.8	151.4	151.4

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

¥43.0bn. Decrease in JFE Steel's Segment Profit (FY2023.1H vs. FY2023.2H)

JFE

				(billion yen)
		Change		
JFE Steel	1H	2H	Full Year	(1H→2H)
Segment Profit	122.8	79.8	202.7	(43.0)
Excluding Inventory Valuation etc.	123.8	76.8	200.7	(47.0)

1.	Cost	+28.0	 Structural reforms effect + 20.0 Operational improvement + 8.0
2.	Volume and Mix	(9.0)	• Crude Steel Production 12.16Mt \Rightarrow 11.29Mt
3.	Sales and Raw materials	(42.0)	 Deterioration due to the slowdown in overseas market conditions
4.	Inventory valuation	+4.0	 Inventory valuation +3.0 (+1.0→+4.0) Carry over +36.0 (-17.0→+19.0) Foreign exchange valuation -15.0 (+15.0→+0.0) One-time structural reform costs -20.0(+0.0→-20.0)
5.	Others	(24.0)	 Foreign exchange effects on trade -9.0 etc.

(hillion yon)

¥16.5bn. Decrease in JFE Steel's Segment Profit (FY2023.3Q vs. FY2023.4Q)

JFE

						(L	mon yen)
		FY	′2023(Actua	al)			Channel
JFE Steel	1Q	2Q	3Q	4Q	Full Year		Change (3Q→4Q)
Segment Profit	68.1	54.7	48.2	31.7	202.7		▲16.5
Excluding Inventory Valuation etc.	59.1	64.7	49.2	27.7	200.7		▲21.5
						-	

1.	Cost	±0.0	
2.	Volume and Mix	+4.0	• Crude Steel Production 5.62Mt \rightarrow 5.67Mt
3.	Sales and Raw materials	+3.0	
4.	Inventory valuation	+5.0	 Inventory valuation +2.0 (+1.0→+3.0) Carry over -9.0 (+14.0→+5.0) Foreign exchange valuation +12.0 (-6.0→+6.0) One-time structural reform costs +0(-10.0→-10.0)
5.	Others	(28.5)	 Expenses, disposal of fixed assets, etc.

Appendix(2) Business Environmental Indicators, etc.

Current Business Environment (Domestic)



Consumption" 11 April 2024. (FY2023.1H and after is estimated results)

[Trends by sector]

Auto- mobile	• Despite the impact of certification issues and other factors, each company is facing backorders, production motivation is high, and activity levels are expected to remain steady.
Ship- building	 Despite the effects of soaring materials prices and labor shortages, the company has secured a two-year backlog of orders, which is the standard for stable workload. The current level is expected to remain stable over the next two to three years.
Other manufacturing	 Construction equipment: High resource prices supports demand for mines, but weak sales to Europe and Asia are also seen. Watch out future trends. Industrial machinery: Increasingly cautious about making investments, feeling uncertainty about the future of the economy due to rising interest rates and continuing inflation. Watch out future trends.
Construction	 In the non-housing sector, demand for large-scale projects, which had been relatively strong, has been postponed due to rising material prices and labor shortages. The number of new housing starts has stagnated, and the number of small and medium-sized projects has continued to decline. We are closely monitoring the impact of the construction industry's fiscal 24 problems, which have entered their effective period.
Civil engi- neering	 Although budget measures continue to be implemented at a high level, it is expected to be affected by rising costs of materials and labor shortages.

Current Business Environment (Overseas)

[World Steel Demand Forecasts(CY)]

JFE



Source : World Steel Association (2024/4 announced)

Keal GDP Growth Forecast IN 2024									
	World US China India								
2023 Actual	3.2%	2.5%	5.2%	7.8%	4.2%				
Jan.2024 Forecast	3.1%	2.1%	4.6%	6.5%	4.7%				
Apr.2024 Forecast	3.2%	2.7%	4.6%	6.8%	-				

Source: IMF World Economic Outlook Update January 2024, April 2024

*ASEAN5 : Thailand, Malaysia, Indonesia, Philippine, and Singapore

[Trend by Sector]

 In China, domestic demand continued to slump due to a slump in the real estate sector. In Southeast Asia, slack in steel supply and demand and stagnant market conditions continue due to an increase in imported materials from China and a decline in external demand.
 Demand is firm and production levels are expected to recover gradually. However, the recovery is expected to be moderate due to the effects of stricter loan screening in ASEAN and slower growth in China.
 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 plants is expected to remain strong .

44

Combined Inventories of HR, CR and Coated Steel Sheet



Domestic

Market Environment

JFE Steel

Inventories of Plate (Plate Shear) and Wide Flange Shapes

JFE Steel



Domestic

Market Environment



JFE Steel

Price Trend of Import Steel

JFE

Domestic

Market Environment



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



Copyright © 2024 JFE Holdings, Inc. All Rights Reserved.

49

JFE Steel **Overseas** Inventories in China by Product Market Environment JFE (Mt)





Raw Materials JFE

Raw materials market trends



Copyright © 2024 JFE Holdings, Inc. All Rights Reserved.

52

Trend of Sub Material's Market Price

(¢/lb) FeCr

JFE



Raw Materials



(US\$/lb) Mo





Trend of Sub Material's Market Price



Raw Materials

JFE







(billion yen)

Business Field	FY2022 Actual	FY2023 Actual	Change	Main orders received in FY2023 ★···New projects received in 40 of FY2023
Waste to Resource	216.9	243.7	26.8	Construction works of domestic waste treatment facility [Mie, Hokkaido, ★Chiba, ★Fukuoka] Renewal works of domestic waste treatment facility [Saitama] Construction works of overseas waste treatment / power generation facility [★Austria] Renewal works of overseas waste treatment facility [★Germany]
Carbon Neutral	57.6	54.3	(3.3)	
Combined Utility Service	21.1	15.6	(5.5)	
Core Infra- structure	269.3	249.4	(19.9)	Reinforcement work of cable tunnel for domestic telecommunications facilities [Osaka] Construction works of piping for domestic refinery [★Kanagawa] Construction works of bridge ([TOKAI-KANJO Expressway [Gifu], RINKO Expressway [Kagoshima], Kinki Expressway [Wakayama]) Reconstruction works of bridge [Metropolitan Expressway [Tokyo]] Container crane [Oi Pier [Tokyo]] Overseas chemical plant construction work [Southeast Asia]
Orders Total	564.9	563.0	(1.9)	
Order Backlog	615.6	613.8	(1.8)	Соругідht © 2024 JFE Holdings, Inc. All Rights Reserved. 55

Order Trends in Engineering Business

JFF

(billion yen)

		6 th mid-		7 th mid-term business plan						
		term (Ave.)	FY2021 Actual	FY2022 Actual	FY2023 Actual	FY2024 Forecast	(Average)			
С	orders Total	465.6	505.8	564.9	563.0	600.0	558.4			
	Waste to Resource	193.1	203.9	216.9	243.7	280.0	236.1			
	Carbon Neutral	37.0	87.4	57.6	54.3	55.0	63.6			
	Combined Utility Service	10.2	13.4	21.1	15.6	8.0	14.5			
	Core Infrastructure	225.3	201.1	269.3	249.4	257.0	244.2			
С	rder Backlog ^{*1}	549.0	560.1	615.6	613.8	970.0 ^{*2}				

*1 For 6th med-term plan, the order backlog is presented at the end of FY2020, and the other periods are presented as that at the end of each fiscal year.

*2 Expectation at the end of FY2024. From FY2024, the method of recording orders for long-term O&M contracts for waste treatment facilities, etc. entrusted by local governments, etc. is changed (equivalent sales revenue is recorded every year \Rightarrow lump-sum recording at the time of contract). By including the estimated future sales revenue of past contracted projects in the backlog of orders, the backlog of orders at the end of FY2024 is expected to increase by about 360 billion yen.



Links to the Reports Published during FY2023

Report	URL	QR code
JFE Group REPORT 2023	https://www.jfe- holdings.co.jp/en/investor/library/gro up-report/index.html	
Sustainability REPORT 2023	https://www.jfe- holdings.co.jp/en/sustainability/index. html	
Sustainability REPORT 2023 Environmental Data	https://www.jfe- holdings.co.jp/en/sustainability/pdf/2 023/2023_08_01.pdf	
DX REPORT 2023	https://www.jfe- holdings.co.jp/en/investor/library/dxr eport/index.html	

JFE-HD

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

Environmental & Social sustainability

(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.

59

1FF-HD



Ε

S

G

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 <u>an</u> <u>extremely important business concern for JFE</u>
- 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 <u>business opportunity</u> to increase corporate value
- Work systematically to combat climate change under <u>TCFD philosophy</u>

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)

Enhance corporate governance

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





1FF-HD

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. <u>Key environmental initiative under 7th mid-term business plan</u>
 - Steel business : <u>Reduction of CO₂ emissions by 18% by the end of</u> <u>FY2024</u> (vs. FY2013)
- 2. Carbon Neutrality by 2050

JFF

- 1 Reduce CO₂ emissions at JFE Steel
 - Pursue super-innovative technology for carbon-recycling blast furnaces and <u>CCU</u>
 - 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
 - Steel business : Develop & market eco-products and eco-solutions. T_FY2030 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

FY2024 12 Mt



JFF

E S G

JFE-HD

Steel Business: CO₂ emission reduction by 18% at the end of FY2024 (vs. FY2013) Through <u>decarbonization in steel manufacturing processes</u> 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.







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:
 - <u>Small-scale pilot furnace demo</u>(2024 \sim 25), <u>middle-scale direct reduction furnace demo</u> (\sim 2040)
- ► EAF: Install pilot EAF in Chiba (demo to be started from 2024)→Install highly efficient large scale EAF(2027~30)





Carbon-recycle Blast Furnace





- Technologies for reducing CO₂ emissions from blast furnaces are necessary 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 zero carbon emissions.</u>
 </u>



JEE

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

- 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.







Safety management

Facilitate employee participation Further increase efforts to prevent accidents not only **by using facilities** but also through **safety education and obedience of rules**, in order to **achieve top-priority goal of zero major accidents**.

Groupwide investment for safety issues : Approx. <u>**10 billion yen</u>/year**</u>

Implement multifaceted health/safety management using advanced IT (monitoring, detection, etc.).

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

Copyright © 2024 JFE Holdings, Inc. All Rights Reserved.

66

JFE Engineering

Social sustainability : Contribution to Regional Societies through Engineering Business



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



*Regional PPS (Power Producer and Supplier) : Power producers and suppliers engaged in local production of energy for local consumption **Selfsupporting energy supply line: Direct energy supply line from power generation plants to the connection points Convrie



Establish sufficient profitability and stable financial base for proactive business operation 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 through
- 4. Balance financial soundness with effective investment 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.)

Cf. 2H of FY2020 (actual)

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

*Segment profit / unconsolidated sales volume in tons

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%)

JFE

efficiency and our delivery

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-</u> added products ratio, and <u>enhance earning base.</u>

Achieve world-class cost	Expand margins
and quality competitiveness	and achieve stable profit
 Cost reductions: ¥120bn. over 4	 Increase mix of highly value-added
years Labor productivity: +20%	products* to an unprecedented 50% *Products that offer technological advantages, are
(13% via structural reform +	recognized by customers for their value added and
1.670→2.000t/person/year via DX etc.	have greater earnings power than commodity products.
 Number of employees: 16,000→13,000) Establish profit base that is resilient to changes in economic conditions by completing structural reforms <u>Greatly reducing fixed costs</u> <u>Lowering breakeven points</u> Introduce new technologies through DX 	 Product-mix enhancements 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
 Improve production efficiency and yields Greatly improve labor productivity Ensure quality competitiveness by improving product quality, production 	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)



Vietnam



- 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]

Started commercial production of largediameter welded pipe (AGPC) [FY2019]

FHS



china

Investment in 2015 (current equity ratio 4%)



ASEAN

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

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

JFE Steel



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 <u>expand the</u> <u>electrical steel sheet production capacity</u> of its West Japan Works (Kurashiki District) amid <u>increasing demand for high-grade N/O</u> 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.

САРЕХ	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*

*CO₂ reductions effect resulting from expanding EV/HEV



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 <u>conduct a feasibility study</u> with JSW, JFE's strategic alliance-partner in India, regarding <u>establishing a</u> <u>G/O manufacturing and sales joint-venture-</u> <u>company in India.</u>

<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.)


JFE

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



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





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		Carbon Neutral FY2024 revenue target ¥80 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 		 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		Core infrastructure FY2024 revenue targe ¥260 billion	t	
•	Shift to <u>comprehensive business</u> <u>model</u> , including for efficient operation of facilities to contribute to energy savings and	•	 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 		
(to energy savings and				
1	to energy savings and Recycling etc		 Improving life of existing infrastructure→install new materials and new products 		

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 pypeline 2024 JFE Holdings, Inc. All Rights Reserved.



Establish growth foundation by enhancing SCM



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

Main initiatives

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. <u>Seize new business opportunities</u>

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.



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

• <u>Aim to expand business to meet clients' needs.</u> Increase sales of both JFE group products and alliancepartner products as well as actively expand business with other suppliers' products



- Promote DX in every business area such as <u>advancing productivity through</u> <u>innovation</u>, <u>transforming exiting businesses</u> and <u>creating new businesses</u>.
- Proactively invest money and human resource necessary for DX :
 DX investment approx. 120 billion yen over 4 years

JFE Engineering JFE Steel Use digital technology to streamline production Digitalize entire business and provide operations and implement new growth new digital services to customers. strategies **Design efficiency: 20% increase** Target Labor productivity: 20% improve* in FY2024 **Target** *FY2024 structural reform 13%+ DX effects etc. JFE Shoji 115 billion yen Invest Improve customer service, pursue new ment over 4 years 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 <u>raise customer satisfaction</u> through <u>quality</u> <u>enhancements and better delivery services</u>.
- Actively expand <u>solutions businesses</u>

1FF-HD



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

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

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

Equipment investment : Approx. 1,200 billion yen 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

<u>Business investment : About 250 billion yen</u>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 *130 billion Trading Business : ¥100 billion Trading Business : ¥50 billion

2. Ensuring earning source

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

3. Returns to shareholders

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

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

JFE-HD



Main Financial Data and Performance & Profitability Targets

		7 th mid-term business plan FY2024	FY2020 Actual
	Business profit	¥ 320.0 billion	¥ -12.9 billion
ate	Profit attributable to owners of the parent	¥ 220.0 billion	¥ -21.8 billion
olid	ROE	10%	-1.3%
ons	Debt/EBITDA	About 3x	8.1x
	D/E*1	About 70%	93.2%
ing ies	Steel business Profit per ton ^{*2} Segment profit	10,000 yen/ton ¥ 230.0 billion	-3,000 yen/ ton ¥ -65.4 billion
Dperat ompar	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) Copyright © 2024 JFE Holdings, Inc. All Rights Reserved.

Appendix(4) JFE Steel Carbon Neutral Strategy Briefing

JFE Steel's Carbon Neutrality Vision 2050

JFE







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





- Developing technologies to produce high-quality and high-functional steel in the GI Fund project by using technologies to utilize hydrogen in the blast furnace process and direct-reduction steelmaking as well as EAFs.
- Considering the transition of one blast furnace, which is to be refurbished in 2027, to a large, high-efficiency EAF, assuming government support. Aiming for lower CO₂ emissions and business growth.
- Policies on the transition after 2030 will be formulated later, taking account of issues such as the development of plentiful, low-cost, and stable supply networks of hydrogen and power as well as demand for green steel.



JFE's Carbon Neutrality Action Plan

Environmental Vision 2050

 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
 - \rightarrow 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
 - \rightarrow 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





- Moving forward according to the FY2022 plan, achieving a 13% reduction. Also expecting to achieve the FY2024 year end target.
- Making solid progress in investment approval and implementation to achieve the reduction targets. Already approved for approx. 110 billion yen by FY2022.



Projects Supported by the Green Innovation Fund Vision 2050

- A COLOR
- Promoting the development of ultra-innovative technologies in the NEDO project on hydrogen utilization in iron and steelmaking processes, financed by the Green Innovation (GI) Fund.
- Started building a small test blast furnace (150m³) in Chiba District, aiming for swift implementation.



Overall Scale of GI Fund Projects

- Environmental Vision 2050
- Development toward Stage Gate Reviews scheduled mainly in FY2025–2026
- Studies also underway with a view to actual implementation in 2030–2040s



Source: METI

(https://www.meti.go.jp/policy/energy environment/global warming/gifund/pdf/gif 05 randd.pdf)

87 Copyright © 2024 JFE Steel Corporation. All Rights Reserved.

Stimulating Demand for Green Steel

Environmental Vision 2050



- ▶ 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.

Collaborating with Society on Carbon Neutrality



- While achieving carbon neutrality is a top management priority for JFE Steel, generating environmental value involves large investments and cost increases associated with transitioning, requiring efforts beyond the private company level.
- 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.



Necessary government support

- Clarify detailed frameworks and schedules on long-term government support for large-scale R&D costs and capital investments
- Ensure government support comparable to that in Europe and the US (e.g., subsidies, tax mechanisms) and international competitiveness of industrial electricity prices
- Provide support for building a green hydrogen supply chain that will become the new infrastructure
- Take measures to stimulate demand for green steel, which has high environmental value, through procurement support (e.g., public procurement)
- Relax the application of competition laws in order to not hinder the promotion of innovation and joint efforts by companies



Copyright © 2024 JFE Holdings, Inc. All Rights Reserved