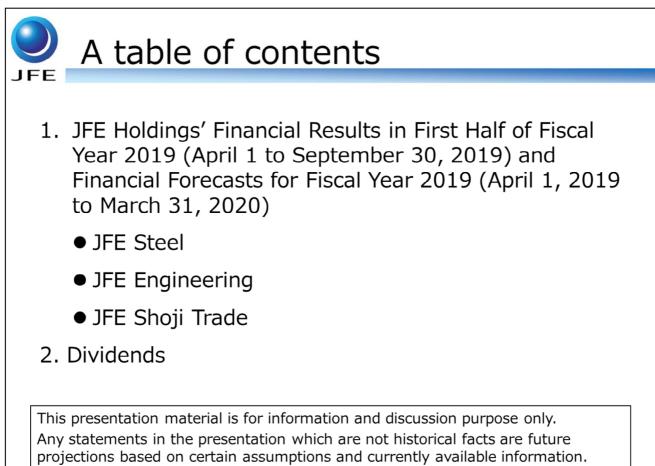
Securities Code: 5411.T



## **JFE Group** Financial Results in First Half of Fiscal Year 2019 ending March 31, 2020

JFE Holdings, Inc. November 12, 2019



Please note that actual performance may vary significantly due to various factors



## Consolidated Results in First Half of Fiscal Year 2019 (April 1 to September 30, 2019)

JFE-HD

4

## Financial Results in First Half of Fiscal Year 2019

	FY2018 *	FY2019	Change
(billion yen)	1H (Apr-Sep)	1H (Apr-Sep)	Change
Revenue	1,892.3	1,871.2	(21.1)
Business Profit	154.6	49.0	(105.6)
Financial Income/Costs	(6.2)	(6.3)	(0.1)
Segment Profit	148.4	42.7	(105.7)
Exceptional Items	-	_	_
Profit before Tax	148.4	42.7	(105.7)
Tax Expense and Profit (Loss) Attributable to Non-Controlling Interests	(39.6)	(10.8)	28.8
Profit Attributable to Owners of Parent	108.8	31.9	(76.9)

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.

\*As of Fiscal 2018, the Company adopted IFRS. Consolidated figures of the First Half of Fiscal 2018 are therefore also presented on an IFRS basis. Actual results of IFRS for the First Half of Fiscal 2018 may change depending on the results of future quarterly reviews.



### Financial Results in First Half of Fiscal Year 2019 (by Segment)

JFE-HD

		FY2018 *	FY2019	Change
(billion yen)		1H (Apr-Sep)	1H (Apr-Sep)	Change
Steel Business		1,402.5	1,353.1	(49.4)
Engineering Business		202.1	238.9	36.8
Trading Business		570.6	557.5	(13.1)
Adjustments		(282.9)	(278.3)	4.6
Revenue		1,892.3	1,871.2	(21.1)
Business Profit	(A)	154.6	49.0	(105.6)
Financial Income/Costs	(B)	(6.2)	(6.3)	(0.1)
Segment Profit				
Steel Business		117.3	17.7	(99.6)
Engineering Business		7.7	11.9	4.2
Trading Business		19.3	14.6	(4.7)
Adjustments		3.9	(1.5)	(5.4)
Total (A	(+B)	148.4	42.7	(105.7)

\*As of Fiscal 2018, the Company adopted IFRS. Consolidated figures of the First Half of Fiscal 2018 are therefore also presented on an IFRS basis. Actual results of IFRS for the First Half of Fiscal 2018 may change depending on the results of future quarterly reviews.

5



## Consolidated Financial Forecasts for Fiscal Year 2019 (April 1, 2019 to March 31, 2020)



## Financial Forecasts for Fiscal Year 2019

JFE										
		5 Forecast	(Updated	019   Forecast 2 2019)	Change					
(billion yen)	1H	Full Year	1H	Full Year	1H	Full Year				
Revenue	1,870.0	3,960.0	1,871.2	3,730.0	1.2	(230.0)				
<b>Business Profit</b>	55.0	140.0	49.0	60.0	(6.0)	(80.0)				
Financial Income/Costs	(5.0)	(15.0)	(6.3)	(13.0)	(1.3)	2.0				
Segment Profit	50.0	125.0	42.7	47.0	(7.3)	(78.0)				
Exceptional Items	_	_	_	_	_	_				
Profit before Tax	50.0	125.0	42.7	47.0	(7.3)	(78.0)				
Tax Expense and Profit (Loss) Attributable to Non-Controlling Interests	(15.0)	(35.0)	(10.8)	(14.0)	4.2	21.0				
Profit Attributable to Owners of Parent	35.0	90.0	31.9	33.0	(3.1)	(57.0)				



### ле-но Financial Forecasts for Fiscal Year 2019 (by Segment)

	-E						
		FY2 (Previous Aug. 9	Forecast	FY2 (Updated Nov. 12	Forecast	Cha	nge
	(billion yen)	1H	Full Year	1H	Full Year	1H	Full Year
	Steel Business	1,400.0	2,900.0	1,353.1	2,690.0	(46.9)	(210.0)
	Engineering Business	230.0	520.0	238.9	520.0	8.9	0
	Trading Business	553.0	1,200.0	557.5	1,120.0	4.5	(80.0)
	Adjustments	(313.0)	(660.0)	(278.3)	(600.0)	34.7	60.0
R	levenue	1,870.0	3,960.0	1,871.2	3,730.0	1.2	(230.0)
B	Business Profit (A)	55.0	140.0	49.0	60.0	(6.0)	(80.0)
F	inancial Income/Costs (B)	(5.0)	(15.0)	(6.3)	(13.0)	(1.3)	2.0
S	egment Profit						
	Steel Business	26.0	70.0	17.7	0	(8.3)	(70.0)
	Engineering Business	9.0	23.0	11.9	23.0	2.9	0
	Trading Business	15.0	36.0	14.6	32.0	(0.4)	(4.0)
	Adjustments	0.0	(4.0)	(1.5)	(8.0)	(1.5)	(4.0)
	Total (A+B)	50.0	125.0	42.7	47.0	(7.3)	(78.0)



### Financial Forecasts for Fiscal Year 2019

JFE						
	FY2018	(Actual)	FY2019	(Forecast )	Change	
(billion yen)	1H *	Full Year	1H	Full Year	1H	Full Year
Revenue	1,892.3	3,873.6	1,871.2	3,730.0	(21.1)	(143.6)
Business Profit	154.6	232.0	49.0	60.0	(105.6)	(172.0)
Financial Income/Costs	(6.2)	(12.5)	(6.3)	(13.0)	(0.1)	(0.5)
Segment Profit	148.4	219.5	42.7	47.0	(105.7)	(172.5)
Exceptional Items	_	(10.2)	_	_	_	10.2
Profit before Tax	148.4	209.3	42.7	47.0	(105.7)	(162.3)
Tax Expense and Profit (Loss) Attributable to Non-Controlling Interests	(39.6)	(45.8)	(10.8)	(14.0)	28.8	31.8
Profit Attributable to Owners of Parent	108.8	163.5	31.9	33.0	(76.9)	(130.5)

\*As of Fiscal 2018, the Company adopted IFRS. Consolidated figures of the First Half of Fiscal 2018 are therefore also presented on an IFRS basis. Actual results of IFRS for the First Half of Fiscal 2018 may change depending on the results of future quarterly reviews.

9



### JFE-HD Financial Forecasts for Fiscal Year 2019 (by Segment)

	FY2018	(Actual)	FY2019(	Forecast)	Cha	nge
(billion yen)	1H *	Full Year	1H	Full Year	1H	Full Year
Steel Business	1,402.5	2,830.6	1,353.1	2,690.0	(49.4)	(140.6)
Engineering Business	202.1	485.8	238.9	520.0	36.8	34.2
Trading Business	570.6	1,125.8	557.5	1,120.0	(13.1)	(5.8)
Adjustments	(282.9)	(568.6)	(278.3)	(600.0)	4.6	(31.4)
Revenue	1,892.3	3,873.6	1,871.2	3,730.0	(21.1)	(143.6)
Business Profit (A)	154.6	232.0	49.0	60.0	(105.6)	(172.0)
Financial Income/Costs (B)	(6.2)	(12.5)	(6.3)	(13.0)	(0.1)	(0.5)
Segment Profit						
Steel Business	117.3	161.3	17.7	0	(99.6)	(161.3)
Engineering Business	7.7	20.1	11.9	23.0	4.2	2.9
Trading Business	19.3	35.7	14.6	32.0	(4.7)	(3.7)
Adjustments	3.9	2.3	(1.5)	(8.0)	(5.4)	(10.3)
Total (A+B)	148.4	219.5	42.7	47.0	(105.7)	(172.5)

on an IFRS basis. Actual results of IFRS for the First Half of Fiscal 2018 may change depending on the results of future quarterly reviews.



## JFE Steel Financial Results in First Half of Fiscal Year 2019



## Production and Shipment

					FY2018				FY2019			FY2019 (Previous
	Unit	1Q	2Q	1H	3Q	4Q	2H	Full Year	1Q	2Q	1H	Forecast) 1H
Crude Steel (Standalone)	Mt	7.10	6.94	14.04	6.39	5.88	12.27	26.31	7.00	6.79	13.79	Approx. 14.00
Crude Steel (Consolidated)	Mt	7.51	7.33	14.84	6.79	6.25	13.04	27.88	7.36	7.13	14.50	Approx. 14.70
Shipment (Standalone)	Mt	6.13	5.93	12.06	6.24	5.48	11.72	23.78	5.85	5.94	11.80	Approx. 12.20
Export Ratio (Value Basis, Standalone)	%	42.4	44.2	43.3	43.5	36.0	40.1	41.7	39.9	42.1	41.0	Approx. 41
Average Sales Price (Standalone)	000 yen/t	79.3	81.9	80.6	82.9	82.0	82.5	81.5	80.4	79.4	79.9	Approx. 80
Exchange Rate	¥/\$	108.1	110.9	109.5	113.4	110.3	111.9	110.7	110.7	107.6	109.2	Approx. 109
Exchange Rate (End of Term)	¥/\$	110.5	113.6	113.6	111.0	111.0	111.0	111.0	107.8	107.9	107.9	

		Yen Decrease iı (Forecast) vs. F			JFE Stee It Profit
	FE	FY2019 1H	F	Y2019 1H	(billion yen) Change
	JFE Steel Forecast			Actual	1H Forecast → Actual
	Segment Profit	26.0		17.7	(8.3)
	Cost Sales Volume a Sales Prices and	nd Mix d Raw materials	- 5.0 - 9.0 + 4.0		
•	Inventory valua Others	ation etc.	+ 3.0 ⊏> - 1.3	<ul> <li>Carry over of ra</li> </ul>	tion +4.0 (-10.0 $\rightarrow$ -6.0) w materials -1.0 (+6.0 $\rightarrow$ +5.0) ge valuation ±0.0 (-3.0 $\rightarrow$ -3.0)
	TOTAL		- 8.3		13

Segment profit in 1H of FY2019 was 17.7billion yen, decreased by 8.3 billion, compared to the previous forecast.

### ♦Cost : -5.0 billion yen

Maintenance cost increased due to the impacts of typhoons and small operating issues.

### ◆ <u>Sales Volume and Mix : -9.0 billion yen</u>

Decrease of steel demand and the drop in price in the overseas market caused the production adjustment, which decreased both the volume of crude steel production and shipment.

Crude steel (Standalone) -0.21Mt (14.00⇒13.79Mt)

Shipment (Standalone) – 0.40Mt (12.20⇒11.80Mt)

◆<u>Sales Prices and Raw materials (Metal spread):+4.0 billion yen</u> (+300 yen/t-shipment) Metal spread increased through price fall in coking coal.

### ◆Inventory valuation etc.: +3.0 billion yen

◆ Others : -1.3 billion yen

		Yen Decrease in (Actual) vs. FY19	JFE Steel's Segme 1H (Actual))	JFE Stee nt Profit
J	FE			(billion yen)
	JFE Steel	FY2018 1H* Actual	FY2019 1H Actual	Change FY2018 1H → FY2019 1H
	Segment Profit	117.3	17.7	(99.6)
	Cost Sales Volume a Sales Prices and			
•	Inventory valua Others		20.0 -> • Carry over of ray	ion -26.0 (+20.0 $\rightarrow$ -6.0) w materials +14.0 (-9.0 $\rightarrow$ +5.0) e valuation -8.0 (+5.0 $\rightarrow$ -3.0)
	*As of Fiscal 2018, the Con on an IFRS basis. Actual re reviews.	-	<b>99.6</b> d figures of the First Half of Fiscal 2 Fiscal 2018 may change depending	2018 are therefore also presented on the results of future quarterly 14

Segment profit in 1H of FY2019 was 17.7 billion yen, decreased by 99.6 billion year-on-year.

### ◆<u>Cost : +13.0 billion yen</u>

#### ◆ <u>Sales Volume and Mix : -7.0 billion yen</u>

Decrease of steel demand and the drop of price in overseas market caused the production adjustment, which decreased both crude steel production and shipment decreased year-on-year.

Crude steel (Standalone) -0.26Mt (14.04 $\Rightarrow$ 13.79Mt) Shipment (Standalone) -0.26Mt (12.06 $\Rightarrow$ 11.80Mt)

#### ◆Sales Prices and Raw materials (Metal spread):-51.0 billion yen (-4,300 yen/t-shipment)

Metal spread decreased through fall in steel price in overseas market and increase in raw material (mainly iron ore) price.

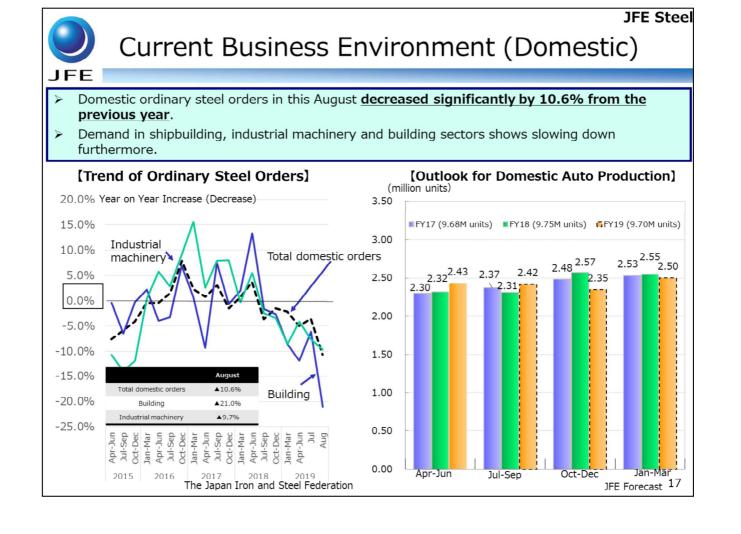
#### ◆Inventory valuation etc.: -20.0 billion yen

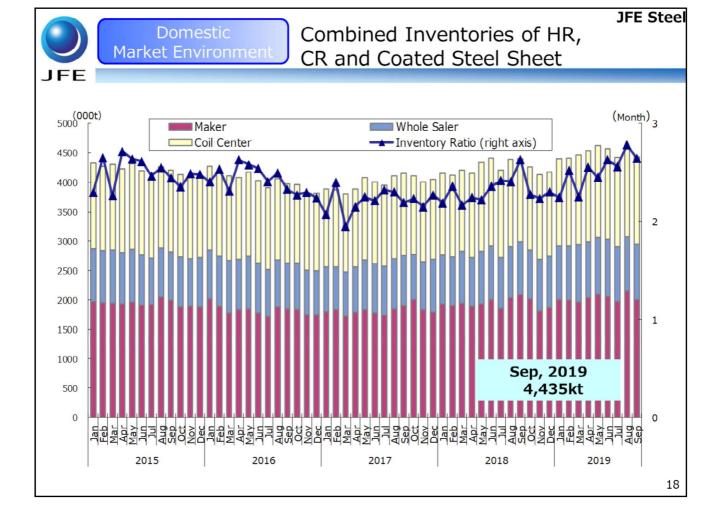
- ◆ Others : -34.6 billion yen
  - ·Increase in depreciation cost with strengthening manufacturing capabilities
  - $\boldsymbol{\cdot} \textsc{Increase}$  in sub materials, logistics, and outsourcing costs
  - $\cdot \textsc{Decrease}$  in profit of subsidiary companies  $\mbox{ etc.}$



## JFE Steel Financial Forecasts for Fiscal Year 2019

		JFE Stee						
	Cu	rrent Business Environment (Overview)						
JFE								
Steel	Dem	and-Supply						
Domes	stic :	Industrial machinery sector and construction sector show <u>further decrease in demand</u> .						
		Decrease of demand and the certain amount of imported steel keep inventory level high.						
Overse	eas :	Intensified trade friction between US and China etc decreases steel demand all over the world.						
		While steel export from China remains low, crude steel production in China keeps high level, which requires to be watched cautiously.						
> De in	<ul> <li>Steel Market Price</li> <li>Decrease of steel demand and export drive from Russian and Indian mills intensifies price competition, which drops down the overseas market price more.</li> </ul>							
		Adjusting production in accordance with						
		decreased demand and overseas market price						





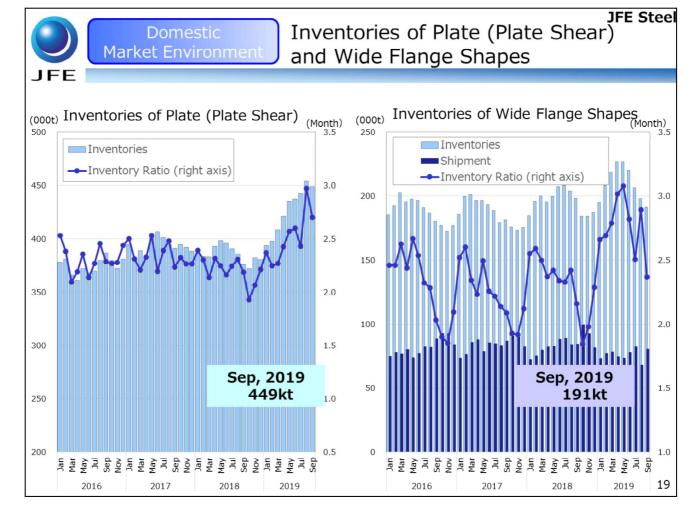
Combined inventories of HR, CR and Coated Steel as of the end of September 2019 were 4,435K tons.

From August 2019 : 132K tons decrease

From September 2018: 39K tons increase

A certain amount of imported steel maintains the inventory level higher.

The demand-supply state needs to be watched cautiously due to decreasing domestic steel demand. Production needs to be adjusted flexibly to meet the ongoing demand.



[Inventories of Plate (Plate Shear)

Inventories of plate shear as of the end of September 2019 was 449K tons.

From August 2019 : 5K tons decrease

From September 2018: 73K tons increase

Although the inventory had been increasing under the weak demand until the end of this August, the inventory at the end of September 2019 decreased slightly from the previous month.

[Inventories of Wide Flange Shapes]

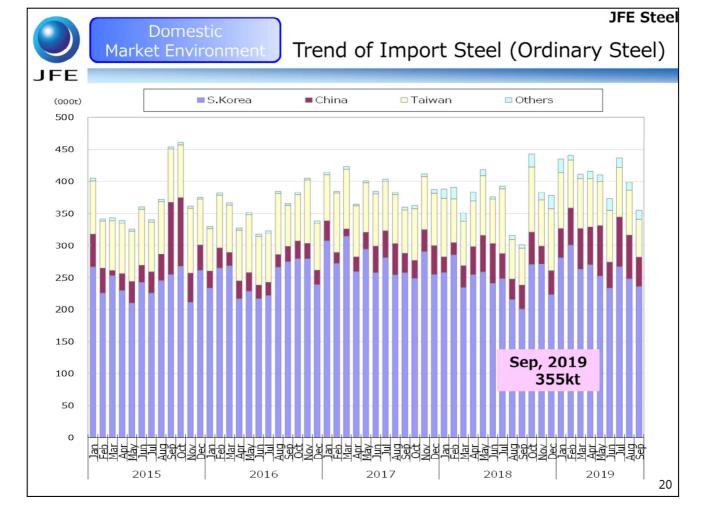
Inventories of wide flange shapes as of the end of September 2019 was 191Ktons.

From August 2019 : 7K tons decrease

From September 2018: 7K tons decrease

Due to the increase in the volume of shipping and appropriate stocking enough to meet the demand, the amount of the inventory at the end of this September decreased. The decreasing of the inventory has continued for 4 months.

The inventory ratio also dropped to slightly over the 2-month level.



The volume of imported ordinary steel in September 2019 was 355K tons.

From August 2019: 17K tons decrease

From September 2018: 55K tons increase

A certain amount of steel has been imported continuously.

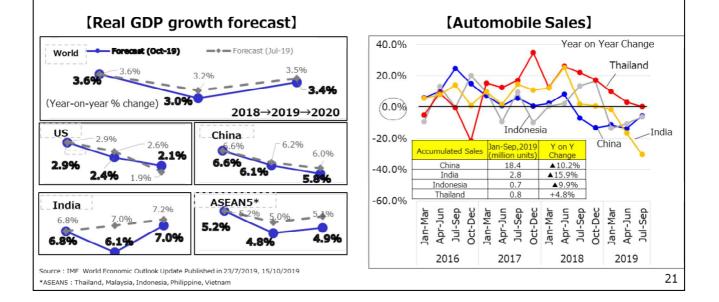
Steel products from China and Korea seem to be flowing into the Japanese market because of the decrease of the Asian market price.

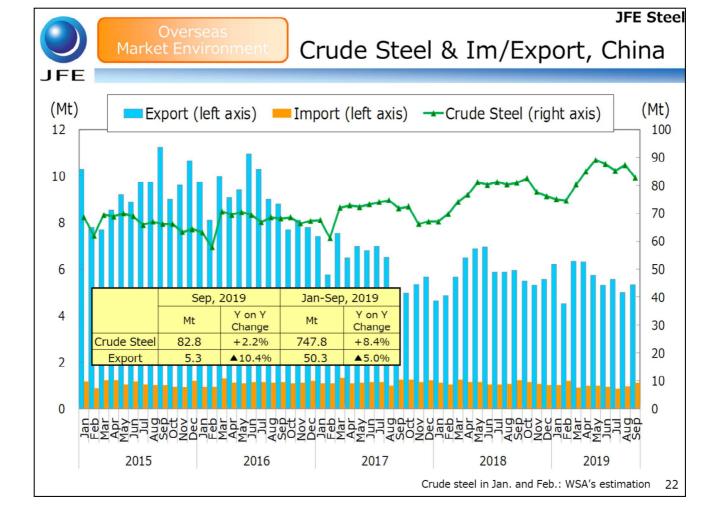


## Current Business Environment (Overseas)

JFE Steel

- > Global growth of Real GDP revised downward from the previous forecast.
- > Signs of a slow down is glowing in the whole global economy.
- Escalated uncertainty coming from trade friction is spreading to the global economy, which makes the perception of economic state worse rapidly.
- > The number of automobile sales in Asian countries also shows the trend of rapid deceleration.





Crude steel production in September 2019 in China was 82.8M tons (2.8M tons on daily basis: slightly decreased compared to the previous month. However, it still remains high.).

From August 2019: 1.6M tons decrease

From September 2018: 7.3M tons increase

Export of steel from China in September 2019 was 5.3M tons.

From August 2019: 0.3M tons increase

From September 2018: 0.6M tons decrease

Although the volume of steel export still remains low, crude steel production remains high. Additionally, the price of main raw materials and the domestic steel market price in China are falling down. Therefore, whether the Chinese mills might increase the volume of exports should be watched cautiously.



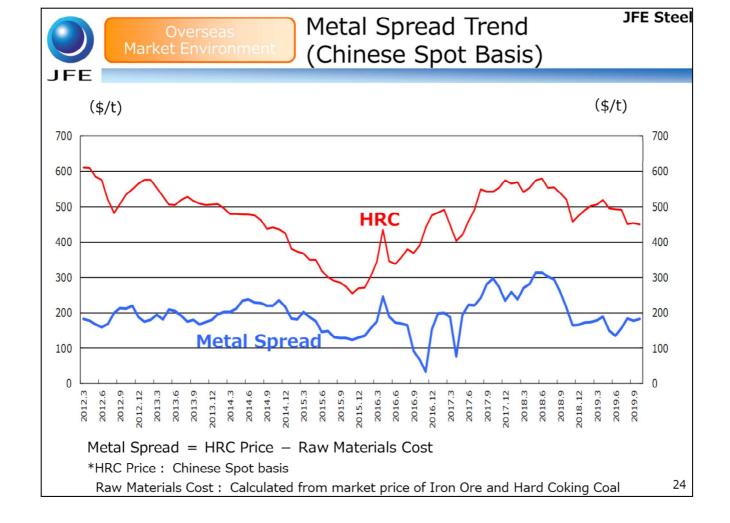
Inventories in China as of the end of October 2019 was approximately 9.4M tons.

From September 2019: 13.4% decrease

From October 2018: 4.3% decrease

After Chinese New Year, the volume of inventories decreased as the seasonal pattern, and it remained high for a while. However, currently, it tends to decrease again.

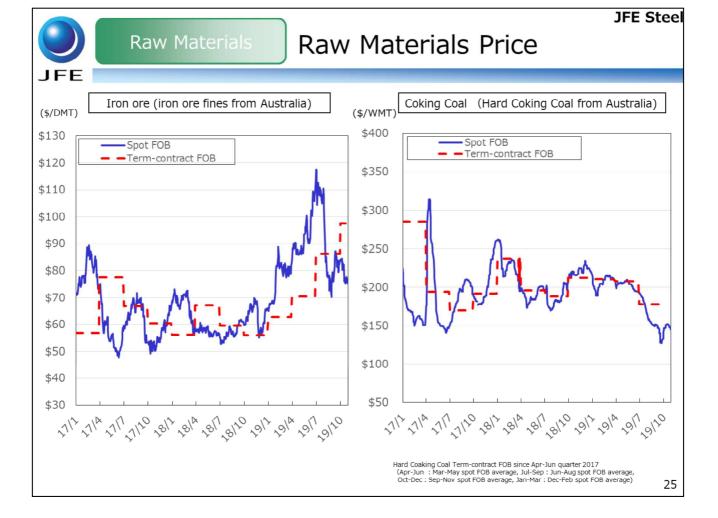
The amount of exports from China still remains low, from which demand-supply is well-balanced under the stable domestic demand at this point.



Metal spread, calculated based on Chinese spot market price of HRC and international spot market prices of iron ore and hard coking coal, dropped below \$150/t in this June and July due to the decrease of the HRC price and the rise of the iron ore price.

Afterwards, metal spread increased to \$180/t due to decrease of the raw material price, and it remains the same level. The signs of recovery of the market price are not observed yet.

It is necessary to watch cautiously how much metal spread will recover in a coming demand season and environmental regulating season in winter.



JFE

### JFE Steel Financial Forecasts for FY2019 of JFE Steel

		FY2018		FY2019		FY2019
	Unit	Full Year	1H	2H	Full Year	Full Year
		(Actual)	(Actual)	(Forecast)	(Forecast)	(Previous Forecast)
Revenue	billion Yen	2,830.6	1,353.1	1,336.9	2,690.0	2,900.0
Segment Profit	billion yen	161.3	17.7	(17.7)	O	70.0
Crude Steel (Standalone)	Mt	26.31	13.79	13.20	Approx.27.00	Approx.28.00
Crude Steel (Consolidated)	Mt	27.88	14.50			$\land$
Shipment (Standalone)	Mt	23.78	11.80			
Export Ratio (Value basis, Standalone)	%	41.7	41.0		$\setminus$	
Average Sales Price	000/t	81.5	79.9			
			109.2	Approx. 105	Approx. 107	

	0 Billion Yen Deo 72019 (Previous			-	
JFE	JFE Steel	FY2019 Previous	FY2019 Updated	(billion yen) Change FY19→FY19	
	Segment Profit	70.0	0.0	(70.0)	
<ul> <li>Sales</li> </ul>	Volume and Mix Prices and Raw Ma tory Valuation etc.		0 0 → Invento • Carry ov • Foreign	ry valuation -16.0 (+2. /er of raw materials - exchange valuation -3	11.0(+6.0→-5.0)
Tota	I	-70.0	D		27

Segment profit forecast for FY2019 is 0 billion yen, decreasing by 70.0 billion yen from the previous forecast.

◆ Cost reduction: -10.0 billion yen

Maintenance cost increased due to the impacts of the typhoons and small operating issues.

- ◆ Sales Volume and Mix : -30.0 billion yen
- Decrease in production volume and product mix deterioration are estimated due to decrease in domestic and overseas steel demand as well as decrease in steel price in the overseas market.
- Crude steel (Standalone) -1.00Mt (28.00⇒27.00Mt)
- Sales Prices and Raw materials (Metal spread):-3.0 billion yen (-100 yen/t-shipment)
  Mainly, the decrease in steel price in overseas market shrank metal spread.
- ◆Inventory valuation etc.: -30.0 billion yen
- ◆ Others : +3.0 billion yen

	3 Billion Yen De Y2018 (Actual) v				JFE Stee
JFE				(billion yen)	
	JFE Steel	FY2018 Actual	FY2019 Forecast	Change FY18→FY19	
	Segment Profit	161.3	0.0	<mark>(161.3)</mark>	
<ul> <li>Sales P</li> <li>Invent</li> <li>Sub ma</li> <li>Others</li> </ul>		- 62. - 15. - 38.	<ul> <li>One-of</li> <li>One-of</li> <li>O</li> <li>Invento</li> <li>Carry c</li> <li>Foreigr</li> <li>Foreigr</li> <li>Increa: outsou</li> <li>Increa: manufi</li> <li>Decrea</li> </ul>	eduction +28.0 f effect in FY2018 +22.0 ory valuation -49.0 (+35.0→ ver of raw materials -4.0(-1 exchange valuation -9.0(+3 se in sub materials, logistics, rcing costs etc. se in depreciation with stremacturing capabilities se in profit of subsidiary con	$.0 \rightarrow -5.0)$ $3.0 \rightarrow -6.0)$ , and gthening
Total		- 161	.3		28

Segment profit forecast for FY2019 is 0 billion yen, decreasing by 161.3 billion yen year on year.

◆Cost: +50.0 billion yen

Cost reduction : +28.0 billion yen: Cost effects of investment in West japan works etc.

One-off effect in FY2018 : +22.0 billion yen

### ◆ Sales Volume and Mix : ±0 billion yen

While the volume of crude steel production is estimated to increase due to the recovery from the operating issues last year, the product mix is estimated to deteriorate as well.

Crude steel (Standalone) +0.69Mt (26.31⇒27.00Mt)

#### ◆Sales Prices and Raw materials (Metal spread):-96.0 billion yen (-4,100 yen/t-shipment)

Metal spread is expected to shrink with price down of steel in the overseas market due to escalating trade friction between the US and China.

- Inventory valuation etc.: -62.0 billion yen
- Sub materials cost etc. : -15.0 billion yen
   Sub materials : -5.0billion yen
   Logistics : -4.0billion yen
   Outsourcing : -5.0billion yen
- ◆ Others : -38.3 billion yen
  - ·Decrease in profit of subsidiary companies
  - ·Increase in depreciation cost with strengthening manufacturing capabilities
  - ·Increase in loss of disposal of asset etc.

JFE Stee 35.4 Billion Yen Decrease in JFE Steel's Segment Profit (FY2019 1H (Actual) vs. FY2019 2H (Forecast))									
E					(billion yen)				
	JFE Steel		2019 Foreca		Change				
		1H	2H	Full Year	1H→2H				
	Segment Profit	17.7	(17.7)	0	(35.4)				
 Sales Pr	olume and Mix rices and Raw Mate ory Valuation etc.	- 17	.0 .0 → Inve • Carr • Fore .4 → Incr mar	ign exchange valu	terials -15.0(+5.0 $\rightarrow$ -10.0) Jation ±0.0(-3.0 $\rightarrow$ -3.0)				
					29				

Segment profit forecast for 2H of FY2019 is -17.7 billion yen, decreasing by 35.4 billion yen from 1H of FY2019.

Cost : +14.0 billion yen

Cost effects of investment in West japan works etc.

- ◆ Sales Volume and Mix : -10.0 billion yen
- Crude steel production is estimated to decrease with the fall of both domestic and overseas steel demand.
- Crude steel (Standalone) -0.57Mt (13.79⇒13.21Mt)

### ♦ Sales Prices and Raw materials (Metal spread):-14.0 billion yen (-1,200 yen/t-shipment)

Metal spread is expected to shrink due to the decrease of the market price mainly in the overseas market along with the escalating trade friction between the US and China.

- ◆Inventory valuation etc.: -17.0 billion yen
- ◆ Others : -8.4 billion yen

•Increase in depreciation cost with strengthening manufacturing capabilities etc.

## JFE Engineering Financial Forecasts for Fiscal Year 2019



## JFE Engineering Financial Forecasts in FY2019 of JFE Engineering

(billion yen)

	FY2019 (Previous Forecast)			019 Forecast)	Change		
	1H	Full Year	1H	Full Year	1H	Full Year	
Orders	180.0	450.0	189.5	450.0	+9.5	0	
Revenue	230.0	520.0	238.9	520.0	+8.9	0	
Segment Profit	9.0	23.0	11.9	23.0	+2.9	0	
[Change]         (1H)         •Orders       +9.5         •Revenue       +8.9         •Segment Profit +2.9       Increase with increase in revenue and change in schedule of incurring costs							
(Full Year) As planned in the previous forecast							
						31	

JFE

## JFE Engineering Financial Forecasts in FY2019 of JFE Engineering

					(1	oillion yen)
	FY2018 (Actual)			019 cast)	Change	
	1H* Ful		1H	Full Year	1H	Full Year
Orders	271.8	482.8	189.5	450.0	(82.3)	(32.8)
Revenue	202.1	485.8	238.9	520.0	+36.8	+34.2
Segment Profit	7.7	20.1	11.9	23.0	+4.2	+2.9
[Change]         (Full Year)         Orders       (32.8)         Decrease in large-scale orders in environmental and energy sector         %Large-scale orders were concentrated in FY2018 1H         Revenue       +34.2         Segment profit       + 2.9         Increase with increase in revenue						
*As of Fiscal 2018, the Company adopted IFRS. Consolidated figures of the First Half of Fiscal 2018 are therefore also presented on an IFRS basis. Actual results of IFRS for the First Half of Fiscal 2018 may change depending on the results of future quarterly reviews. 32						

### JFE Engineering



# Classification of placed orders

(billion yen)

				(
Category	FY2018 (Actual)	FY2019 (Forecast)	Change	Main Orders (FY2019 1H) ★: New projects received in FY2019 Q2
Environment	212.6	200.0	(12.6)	<ul> <li>Reconstruction of facility of the water purification plant</li> <li>Improvement work of the waste treatment plant [Shizuoka ★]</li> <li>Construction of waste-to-energy power plants [UK★]</li> </ul>
Energy	132.8	110.0	(22.8)	<ul> <li>Reconstruction of facility of the geothermal power plant</li> <li>Construction of the gas pipeline</li> </ul>
Social Infrastructure etc.	137.4	140.0	+2.6	<ul> <li>Reconstruction of the bridge (Metropolitan expressway)</li> </ul>
Total	482.8	450.0	(32.8)	
				33

## JFE Shoji Trade Financial Forecasts for Fiscal Year 2019



### JFE Shoji Trade Financial Forecast in FY2019 of JFE Shoji Trade

(billion ven)

	(0	illion yen)					
	FY2019 (Previous Forecast)		FY2 (Updated		Change		
	1H	Full Year	1H	1H Full Year		Full Year	
Revenue	553.0	1,200.0	557.5	1,120.0	+4.5	(80.0)	
Segment Profit	15.0	36.0	14.6	32.0	(0.4)	(4.0)	
<ul> <li>[Change] (1H) As planned in the previous forecast</li> <li>(Full Year) Decrease in revenue and segment profit with decrease in sales volume and spread in US business due to continuing trade friction between US and China, as well as the impact of economic downturn in other regions</li> </ul>							
35							



### JFE Shoji Trade Financial Forecast in FY2019 of JFE Shoji Trade

	(billion yen)							
	FY2018 (Actual)		FY2 (Fore		Change			
	1H*	Full Year	1H	Full Year	1H	Full Year		
Revenue	570.6	1,125.8	557.5	1,120.0	(13.1)	(5.8)		
Segment Profit	19.3	35.7	14.6	32.0	(4.7)	(3.7)		
【Change】 (1H)	Decrease in revenue and segment profit mainly with decrease in sales volume and price in US business *Demand and sales prices in US increased due to US's trade policy in FY2018							
(Full Year)			ner regions n	ofit with decr nainly due to				

\*As of Fiscal 2018, the Company adopted IFRS. Consolidated figures of the First Half of Fiscal 2018 are therefore also presented on an IFRS basis. Actual results of IFRS for the First Half of Fiscal 2018 may change depending on the results of future quarterly reviews.

# JFE Holdings Financial Forecasts for Fiscal Year 2019

J	FE

# Financial Forecasts for Fiscal Year 2019

38

JFE						
	FY2018 (Actual)		FY2019 (Forecast )		Change	
(billion yen)	1H*	Full Year	1H	Full Year	1H	Full Year
Revenue	1,892.3	3,873.6	1,871.2	3,730.0	(21.1)	(143.6)
Business Profit	154.6	232.0	49.0	60.0	(105.6)	(172.0)
Financial Income/Costs	(6.2)	(12.5)	(6.3)	(13.0)	(0.1)	(0.5)
Segment Profit	148.0	219.5	42.7	47.0	(105.7)	(172.5)
Exceptional Items	_	(10.2)	Ι	Ι	-	10.2
Profit before Tax	148.4	209.3	42.7	47.0	(105.7)	(162.3)
Tax Expense and Profit (Loss) Attributable to Non-Controlling Interests	(39.6)	(45.8)	(10.8)	(14.0)	28.8	31.8
Profit Attributable to Owners of Parent	108.8	163.5	31.9	33.0	(76.9)	(130.5)
Previous Forecast (August 9, 2019) Business Profit of Full year: 140.0						

\*As of Fiscal 2018, the Company adopted IFRS. Consolidated figures of the First Half of Fiscal 2018 are therefore also presented on an IFRS basis. Actual results of IFRS for the First Half of Fiscal 2018 may change depending on the results of future quarterly reviews.



## Measures for Maintaining Financial Strength

JFE-HD

Under the severe business environment, consider the following items to maintain financial strength.

#### **1.** Generate cash flow by asset compression approx.150 billion yen

Compression of inventories

• Sale of holding shares (over 100 billion yen)

- Will be applied during 6<sup>th</sup> med-term business plan (until the end of FY 2020)
- r holding shares (over 100 billion yen)

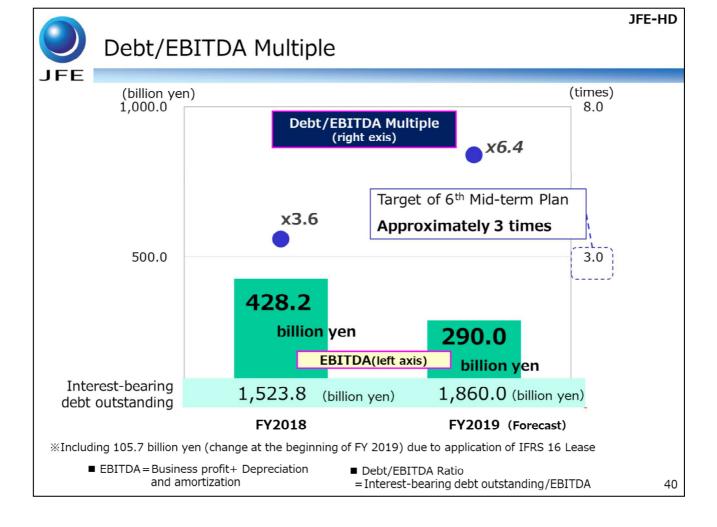
### **2.** Compress CAPEX in steel business

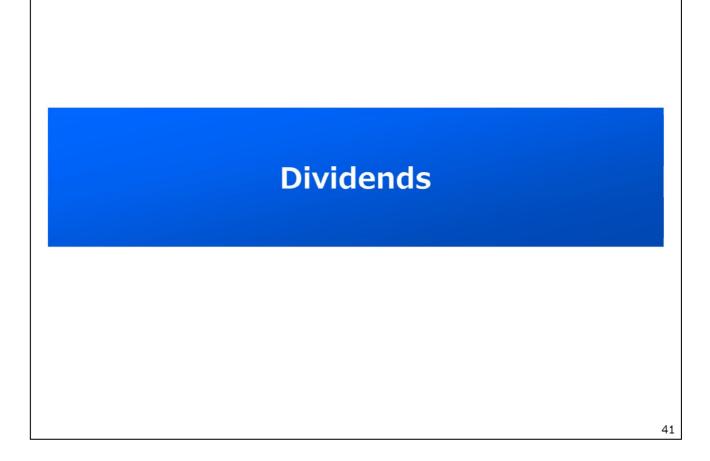
Compress the domestic CAPEX by approximately 100 billion yen (approx. 10%), compared to the CAPEX plan, 1 trillion yen (based on decision-making), referred in 6<sup>th</sup> medium-term business plan

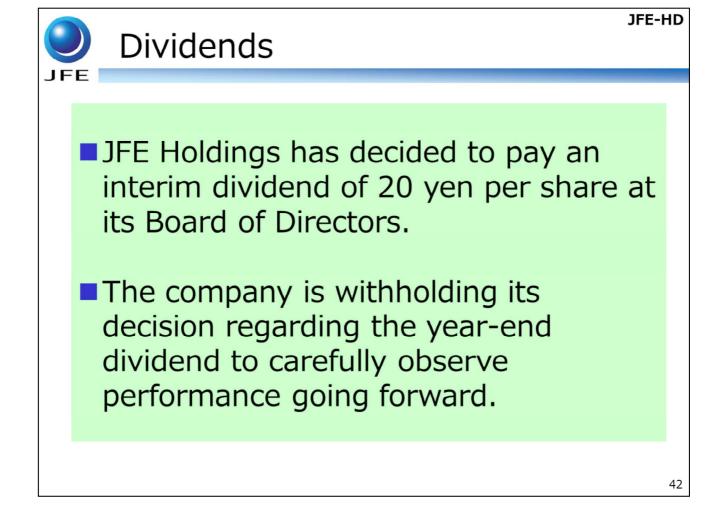


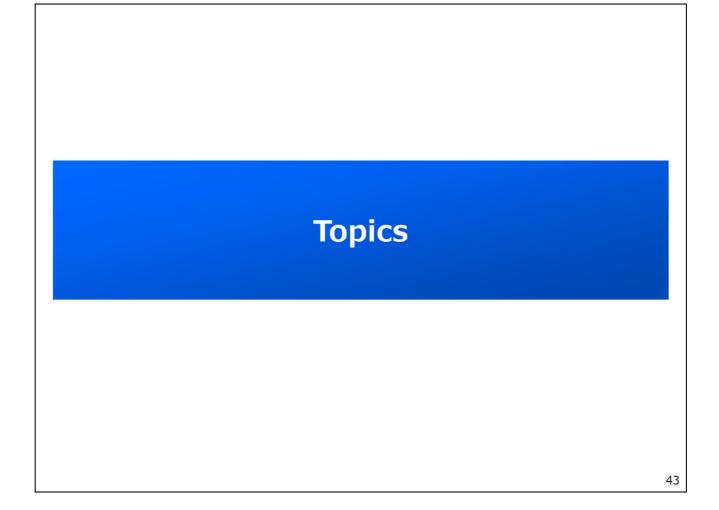
By applying the measures above, interest-bearing debt outstanding at the end of FY 2019 is expected to be 1,860 billion yen.

39











JFE Steel Revamp of No.4 Blast Furnace at West Japan Works (Kurashiki), Introduction of Data Science to All Steel works Blast Furnaces

## **①Kurashiki No.4 BF\* Project outline**

- 1. Cost: Approx. 50 billion yen
- 2. Schedule: Sep. 2021 Dec. 2021 (planned)
- Other: Post-revamp inner volume will be 5,100 m<sup>3</sup> (currently 5,005 m<sup>3</sup>)

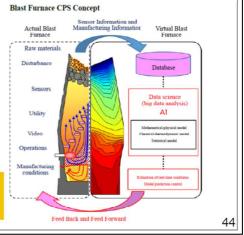


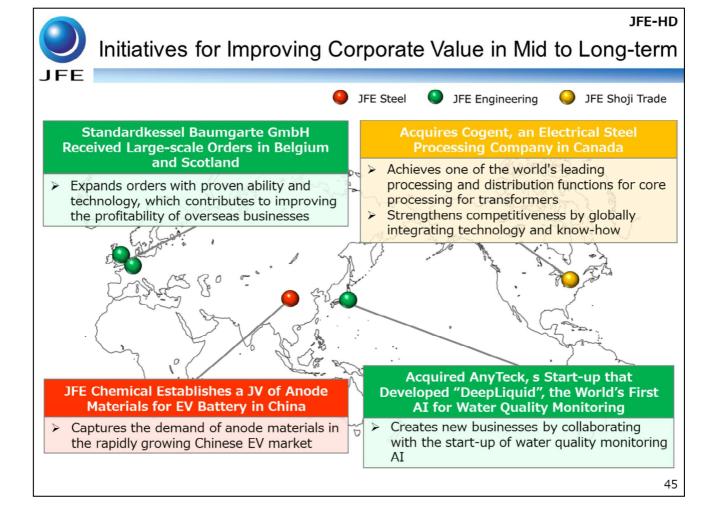
## ② Introduction of Data Science Technology to All Steelworks BFs

\*BF: Blast Furnace

- Deploying advanced data science technology with the aim of converting BFs to cyber physical systemization
- · Fast detection of the anomalies
- Prediction of the furnace-heat conditions
- Guide to the optimal action for operation

Aiming to realize innovative productivity and stable operations across steel manufacturing operations





# ESG initiatives

TCFD Recommendations JFE-HD							
of the TCFD* in May 2019, sults of scenario analysis.							
4°C scenario							
<ul> <li>Even with the new policies in various countries stipulated, <u>temperature will rise</u> up to 4°C</li> <li><u>Climate changes</u> such as rising temperatures <u>will affect business</u></li> </ul>							
The analysis results show that JFE's business strategies are adaptive							
to managing climate-related risks and seizing opportunities. Details are disclosed on the latest CSR Report* and JFE Group Report* *English versions will become available shortly. 47							



# Main Financial Data

## 

[IFRS]

	FY12	FY13	FY14	FY15	FY16	FY17	FY18	
(bn. Yen, times)								
Ordinary Income	52.2	173.6	231.0	64.2	84.7	216.3	221.1	
EBITDA	260.6	368.9	421.5	254.4	279.9	388.8	405.9	
ROS	1.6%	4.7%	6.0%	1.9%	2.6%	5.9%	5.6%	
ROE	2.7%	6.3%	7.7%	1.8%	3.7%	7.6%	8.3%	
ROA	1.6%	4.5%	5.5%	1.7%	2.3%	5.2%	5.1%	
Debt Outstanding	1,596	1,534	1,501	1,379	1,375	1,331	1,450	
Debt/EBITDA Ratio	x6.1	x4.2	x3.6	x5.4	x4.9	x3.4	x3.6	
D/E Ratio	76.9%	67.9%	59.0%	56.9%	51.4%	58.1%	62.0%	
Profit attributable to owners of parent (yen/share)	71.2	177.4	241.6	58.4	117.8	250.8	285.0	
Dividend (yen/share)	20	40	60	30	30	80	95	
Pay-out Ratio	28.1%	22.5%	24.8%	51.4%	25.5%	31.9%	33.3%	

FRS (Forecas							
	FY18	FY19					
(bn. Yen, times)							
Business profit	232.0	60.0					
EBITDA *1	428.2	290.0					
ROS *2	6.0%	1.6%					
ROE *3	8.6%	1.7%					
ROA *4	5.0%	1.2%					
Interest-bearing debt outstanding	1,524	1,860.0					
Debt/EBITDA multiple	x3.6	хб.4					
D/E Ratio *6	68.2%	85.3%					
Profit attributable to owners of parent (yen/share)	283.8	57.3					
Dividend (yen/share)	95	(*) 20					
Pay-out Ratio	33.5%						

Notes \*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

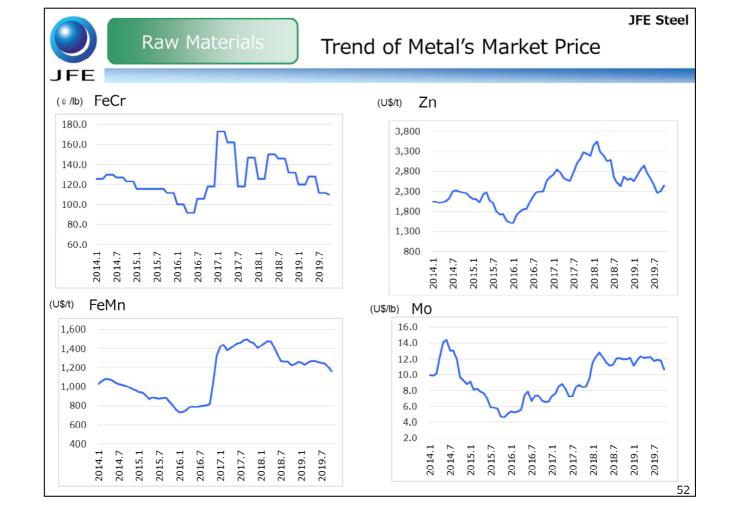
For debt having a capital component, a portion of its issue price is deemed to be capital, as assessed by rating agencie-

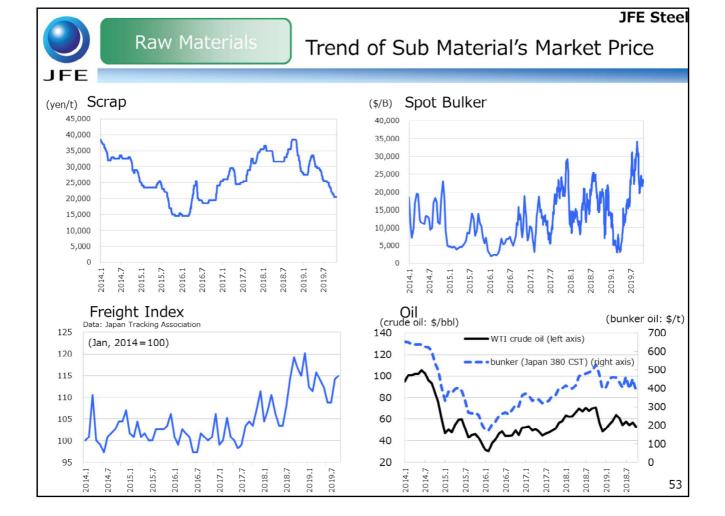
(%)interim dividend

49

		110.0		110.0	
-	Impact of application of IFRS 16 Lease		Fixed asset (right-of	-use assets) etc	
		230.0	Working Capit	tal etc 43.0	
	Interest-bearing debt outstanding			410.0	
_	& Amortization	230.0	Investments	410.0	
	Depreciation		Capex,		
	Net Income	33.0	Dividends	40.0	
	Source		Usag	е	
JLE	Consolidated			(billion yen)	
	Cash Flow Fore	cast for F	Y2019		FE-H







	/ (FY	3 Billion Yen Deo ⁄2018 2H (Actua			-	JFE Steel	
J	E				(billion yen)		
		JFE Steel	FY2018 2H* (Actual)	FY2019 1H (Actual)	Change FY2018 2H →FY20191H		
		Segment Profit	44.0	17.7	<mark>(26.3)</mark>		
:	+ 23.0 • Cost • Sales Volume and Mix • Sales Prices and Raw Materials - 31.0 ·Inventory valuation $-21.0 (+15.0 \rightarrow -6.0)$						
:	Invento Others	ry Valuation etc.	- 25 - 10	•Foreign e	er of raw materials – 3.0 ( exchange valuation –1.0 (		
	Tota	I	- 26	.3			
	*As of Fiscal 2018, the Company adopted IFRS. Consolidated figures of the Second Quarter of Fiscal 2018 are therefore also presented on an IFRS basis. Actual results of IFRS for the Second Quarter of Fiscal 2018 may change depending on the results of future quarterly reviews. 54						

Segment profit result for 1H of FY2019 was 17.7 billion yen, decreasing 26.3 billion yen compared to that for 2H of FY2018.

Cost : +23.0 billion yen

#### ◆ Sales Volume and Mix : +17.0 billion yen

Recovery of the crude steel production from the operating issues in FY2018 Crude steel (Standalone) +1.52Mt (12.27 $\Rightarrow$ 13.79Mt) Shipment (Standalone) +0.08Mt (11.72 $\Rightarrow$ 11.80Mt)

- ◆<u>Sales Prices and Raw materials (Metal spread):-31.0 billion yen</u> (-2,600 yen/t-shipment) Metal spread was shrunk due to the decrease in steel price in overseas market and increase in iron ore price.
- ◆Inventory valuation etc.: -25.0 billion yen
- ◆ Others : -10.3 billion yen

Mainly, decrease in profit of subsidiary companies etc.

(F)	3 Billion Yen Deo Y2019 1Q (Actua				JFE Ste Profit	eel	
JFE					(billion yen)		
		FY:	2019 (Actu	al)	Change		
	JFE Steel	1Q Actual	2Q Actual	1H Actual	1Q→2Q		
	Segment Profit	14.5	3.2	17.7	<mark>(11.3)</mark>		
Cost- 3.0Sales Volume and Mix- 7.0Sales Prices and Raw Materials- 7.0Inventory Valuation etc.+ 12.0 $\Box$ Foreign exchange valuation + 3.0 (-3.0 $\rightarrow$ ±0.0)Others- 6.3							
Total		- 11.	.3			55	

Segment profit for 2Q of FY2019 was 3.2 billion yen, decreasing 11.3 billion yen from 1Q in FY2019.

◆ Cost : -3.0 billion yen

#### ◆ Sales Volume and Mix : -7.0 billion yen

The volume of crude steel production went down due to the production adjustment along with the decrease in steel demand and decline of the price in the overseas market.

Crude steel (Standalone) -0.22Mt (7.00⇒6.79Mt)

Shipment (Standalone) +0.09Mt (5.85⇒5.95Mt)

◆Sales Prices and Raw materials (Metal spread):-0.7 billion yen (-1,200 yen/t-shipment)

Metal spread decreased mainly through increase in iron ore price and decrease of the steel price in overseas market.

- ◆Inventory valuation etc.: +12.0 billion yen
- ◆ Others : -6.3 billion yen
  - ·Decrease in dividends received
  - •Increase in depreciation cost etc.

