

# Fiscal 2018 Supplementary Information

## May 13, 2019 DOWA HOLDINGS CO.,LTD.

### **Overview of Operating Results**

#### ■ Consolidated Income Statements

Billion yen

		FY2017			FY2018		Change			
	1H	2H	Full Year	1H	2H	Full Year	1H	2H	Full Year	
Net Sales	219.3	235.4	454.7	221.8	231.1	452.9	2.5	(4.3)	(1.8)	
Operating Income	14.6	16.2	30.9	9.3	9.3	18.6	(5.3)	(6.9)	(12.2)	
Ordinary Income	17.2	19.0	36.3	12.8	11.4	24.3	(4.4)	(7.6)	(12.0)	
Profit attributable to owners of parent	11.7	12.9	24.6	8.8	6.0	14.9	(2.8)	(6.8)	(9.7)	

Operating income and ordinary income both decreased on a year-on-year basis due to mainly the deterioration of purchase conditions of smelting raw materials, falling metal prices, and slowdown of the Chinese market.

#### Exchange Rate and Metal Prices

		FY2017 Average	9		FY2018 Average					
	2H	Full Year	1H	2H	Full Year					
Exchange Rate: (¥/\$)	111.1	110.6	110.9	110.3	111.6	110.9				
Copper: (\$/t)	6,005	6,884	6,444	6,487	6,194	6,341				
Zinc: (\$/t)	2,780	3,328	3,054	2,824	2,667	2,746				
Indium: (\$/kg)	184	269	226	286	222	254				



#### Waste- and Recycling-related business

Waste generated firmly in Japan and Southeast Asia.

Processing volume increased in the automobile recycling and electric equipment recycling business.

#### Automobile-related market

Affected by the automobile production decrease in China.

#### > New forms of energy- and electronic components-related business

New forms of energy: Demand declined in the Chinese market.

Electronic components: Demand for smartphones in the Chinese market declined.

#### Metal prices and Exchange rates

Metal prices remained firm overall.

The exchange rate remained stable at around 110 yen per dollar.



#### **Trends in Major Products**

FY2017 FY2018 3O 3O Intermediate waste processing volume in Japan Environmental Recycling materials collection Management & volume (To Kosaka) Recycling Waste processing amount in South East Asia Copper production Nonferrous (Kosaka, Onahama) Metals Zinc production (Akita) LED sales volume **Electronics** Materials Silver powder sales volume Metal Copper alloy strip sales volume Processing Heat treatment sales amount Heat Treatment Industrial furnace sales amount 



Indexes (100 for Q1 of FY2017)

### Year-on-Year Comparison by Segment

Billion Yen

		FY2017			FY2018			Change		Details of Changes
	Net Sales	Operating Income	Ordinary Income	Net Sales	Operating Income	Ordinary Income	Net Sales	Operating Income	Ordinary Income	to Operating Income
Environmental Management & Recycling	99.3	4.9	5.7	104.4	5.6	6.2	5.0	0.7	0.5	<ul> <li>Increase in soil treatment projects</li> <li>Processing volume increment in the automobile recycling and electric equipment recycling business</li> </ul>
Nonferrous Metals	217.9	9.2	13.0	221.6	0.5	4.6	3.7	(8.6)	(8.3)	<ul> <li>Deterioration of purchase conditions of smelting raw materials</li> <li>Rising electricity prices</li> <li>Reduced PGM recovery</li> </ul>
Electronics Materials	77.7	5.6	6.1	64.9	2.1	3.1	(12.8)	(3.4)	(3.0)	<ul> <li>Sales reduction of silver powder to China</li> <li>Decrease sales of magnetic powder</li> </ul>
Metal Processing	90.6	7.2	7.5	92.0	6.2	6.4	1.4	(0.9)	(1.1)	- Decrease in demand for smartphones - Increase in depreciation expenses
Heat Treatment	28.2	2.6	2.5	29.7	2.4	2.5	1.5	(0.1)	0.0	<ul> <li>Decrease in heat treatment processing demand</li> <li>Increase in depreciation expenses</li> </ul>
Other/ Elimination	(59.1)	1.2	1.3	(59.9)	1.4	1.2	(0.8)	0.2	(0.1)	
Total	454.7	30.9	36.3	452.9	18.6	24.3	(1.8)	(12.2)	(12.0)	



## **Factor Analysis of Ordinary Income**

							Billion yen
FY2018 — FY2017	Environmental Management & Recycling	Nonferrous Metals	Electronics Materials	Metal Processing	Heat Treatment	Other	Total
Effect of various measures, increase/ decrease in sales, etc.	1.8	(4.7)	(3.3)	(0.7)	0.1	0.3	(6.5)
Of the above, free metal income difference (volume difference)		(0.4)			_	_	(0.4)
Free metal income difference (metal price difference)	_	0.4	_	_	_	_	0.4
Exchange rate difference of foreign currency- based income	_	_	_	_	-	_	_
Purchase conditions for raw material (base conditions difference)	—	(2.5)	_	_	_	_	(2.5)
Difference between the market value and book value at sale, and between market value and valuation prices at end of period	_	(1.1)	_	_	_	—	(1.1)
Electricity charges, etc.	_	(1.1)	_	_	_	_	(1.1)
Depreciation in manufacturing cost	(1.1)	0.5	(0.2)	(0.2)	(0.3)	(0.0)	(1.3)
Increase/decrease in operating income	0.7	(8.6)	(3.4)	(0.9)	(0.1)	0.2	(12.2)
Effect of non-operating income/expenses							
- Equity method income or loss	(0.1)	(0.8)	(0.0)	(0.0)		(0.4)	(1.2)
- Other	(0.1)	1.0	0.4	(0.1)	0.3	(0.0)	1.4
Increase/decrease in ordinary income	0.5	(8.3)	(3.0)	(1.1)	0.0	(0.1)	(12.0)



#### **Consolidated Balance Sheets**

Billion yen

	Mar. 31, 2018	Mar. 31, 2019	Change		Mar. 31, 2018	Mar. 31, 2019	Change
Current Assets	228.3	238.0	9.6	Current Liabilities	142.8	163.4	20.6
Current Assets	220.5	230.0	9.0	Noncurrent Liabilities	65.9	85.0	19.1
Noncurrent Assets	228.1	256.6	28.4	Non-Controlling Interests	238.8	237.2	(1.6)
Noncurrent Assets	220.1	230.0	20.4	Equity	8.9	8.9	(0.0)
Total Assets	456.5	494.6	38.1	Total Liabilities and Net Assets	456.5	494.6	38.1
				Interest-bearing debt	109.8	135.2	25.4
				Equity ratio (%)	52.3	48.0	(4.4)
				ROA(%)	8.4	5.1	(3.3)

Total assets increased 38.1 billion yen from the end of the previous fiscal year, mainly due to growth in fixed assets by growth investments.

ROA decreased 3.3 points from the end of the previous fiscal year due to the increase in total assets and a decrease in profit.



#### **Consolidated Statements of Cash Flows**

Billion yen

		FY2017	FY2018	Change
Ca	ash Flows from Operating Activities	11.1	37.5	26.4
	Profit before income taxes	34.9	23.4	(11.4)
	Depreciation and amortization	17.7	19.1	1.3
	Income taxes (paid) refund	(12.4)	(7.9)	4.5
	Inventories	(23.9)	(13.4)	10.4
	Other, net	(5.1)	16.2	21.4
Ca	ash Flows from Investing Activities	(34.0)	(51.0)	(17.0)
	Acquisition of property, plant and equipment	(24.0)	(23.6)	0.3
	Other investments	(10.0)	(27.3)	(17.3)
Ca	ash Flows from Financing Activities	24.0	15.9	(8.1)
Тс	otal	1.2	2.4	1.2



			billion yen
	FY2018	FY2019	Change
	results	forecast	Change
Net Sales	452.9	455.0	2.0
Operating Income	18.6	24.5	5.8
Ordinary Income	24.3	30.0	5.6
Profit attributable to owners of parent	14.9	20.0	5.0

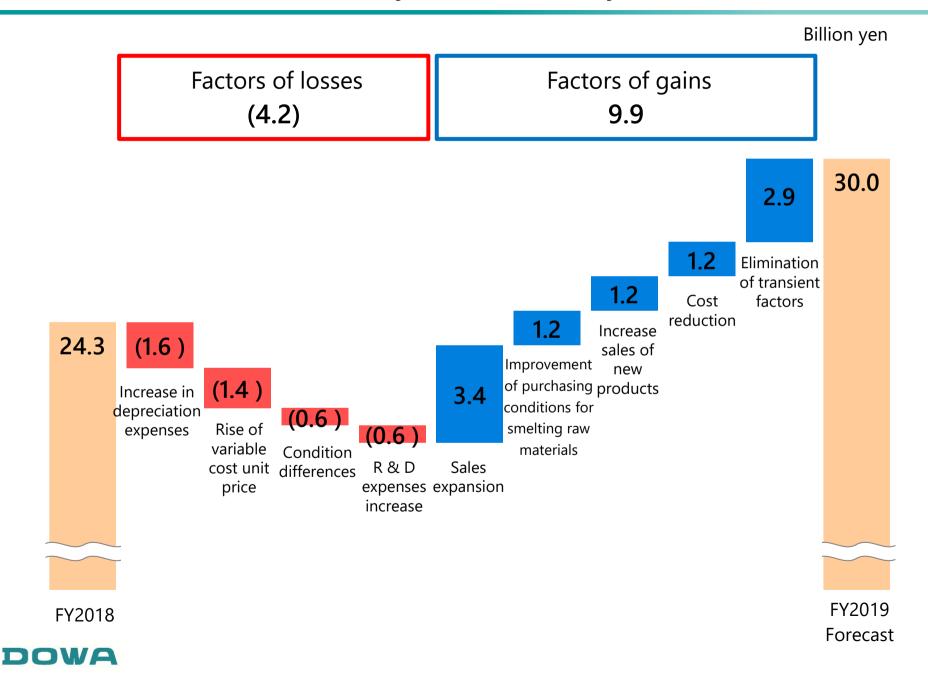
#### Consolidated Income Statements

In fiscal 2019, we plan to increase profits year-on-year, factors such as improved purchasing conditions for smelting raw materials, elimination of transient factors, increase in sales of existing products and new products by realizing the effects of Midterm Plan 2020, cost factors such as electricity costs and depreciation expenses are also incorporated.



**Billion** ven

#### **Factor Analysis of Ordinary Income**



#### Year-on-Year Comparison by Segment

Billon yen FY2018 Results FY2019 Forecast Change Operating Operating Ordinary Operating Ordinary Ordinary Net Sales Net Sales Net Sales Income Income Income Income Income Income Environmental Management & 104.4 5.6 6.2 106.7 6.6 6.7 2.2 0.9 0.4 Recycling 221.6 0.5 4.6 209.3 9.5 (12.3)4.8 Nonferrous Metals 5.9 5.3 Electronics 64.9 2.1 3.1 65.6 0.7 2.6 0.6 (1.4)(0.5) Materials Metal 6.2 91.7 6.6 6.8 (0.3)0.3 0.3 92.0 6.4 Processing Heat 29.7 2.4 2.5 32.4 3.3 3.2 2.6 0.8 0.6 Treatment Other/ (59.9)1.4 1.2 (50.7) 1.4 1.2 9.2 (0.0)(0.0)Elimination Total 452.9 18.6 24.3 455.0 24.5 30.0 2.0 5.8 5.6



## **Assumptions and Sensitivities (FY2019)**

Sensitivity (Operating	g Income / Year)		Million yen
	Assumptions	Fluctuation	Sensitivity
Exchange rate	110.0 ¥/\$	±1円/\$	400
Copper	6,400 \$∕t	±100 \$⁄t	50
Zinc	2,800 \$⁄t	±100 \$⁄t	400
Indium	180 \$⁄kg	±10 \$⁄kg	50

\* Exchange rate sensitivity; Nonferrous Metals 340 million yen and Electronics Materials 60 million yen.

Foreign Exchange Rates and Metal Prices

	F	Y2018 Averag	je	FY2	2019 Assumpt	tion	(ref.)
	H1	H2	Full Year	H1	H2	Full Year	Apr. 2019 Ave.
Exchange rate: (¥/\$)	110.3	111.6	110.9	110.0	110.0	110.0	111.7
Copper: (\$/t)	6,487	6,194	6,341	6,400	6,400	6,400	6,445
Zinc: (\$/t)	2,824	2,667	2,746	2,800	2,800	2,800	2,938
Indium: (\$/kg)	286	222	254	180	180	180	187

Sensitivity is based on assumptions that the Company assumes to be reasonable at the time of publication. Actual effects may differ materially due to a variety of factors.



#### Investment

												Billion yen		
		FY2016			FY2017			FY2018		FY2	FY2019 Assumption			
	Capital investment & loan	R&D investment	Total											
Environmental Management & Recycling	5.7	0.3	6.0	8.2	0.4	8.6	6.6	0.3	7.0	15.0	0.4	15.4		
Nonferrous Metals	9.0	2.0	11.1	12.3	1.2	13.6	26.4	1.3	27.7	5.0	0.9	5.9		
Electronics Materials	3.7	3.2	7.0	4.6	3.4	8.1	3.8	3.9	7.7	3.5	4.5	8.0		
Metal Processing	4.0	0.5	4.5	3.6	0.5	4.2	5.9	0.7	6.7	4.7	0.7	5.4		
Heat Treatment	5.3	0.4	5.7	4.9	0.3	5.3	5.4	0.2	5.6	4.3	0.2	4.5		
Companywide, Other	2.4	0.0	2.3	0.8	0.0	0.9	1.0	(0.1)	0.8	1.5	(0.1)	1.3		
Total	30.2	6.6	36.9	34.8	6.1	40.9	49.3	6.3	55.7	34.0	6.8	40.8		

#### (Ref.) Depreciation Expenses

	FY2016	FY2017	FY2018	FY2019 Assumption
Environmental Management & Recycling	4.5	4.3	5.3	5.6
Nonferrous Metals	3.8	4.6	4.1	4.1
Electronics Materials	2.3	2.7	2.8	3.4
Metal Processing	2.0	2.4	2.7	3.1
Heat Treatment	1.9	2.0	2.3	2.8
Companywide, Other	0.9	1.0	1.1	0.9
Total	15.7	17.2	18.6	20.2

#### Major capital investment projects in fiscal 2019

Environmental Management & Recycling: Non-combustible waste recycling facility

Nonferrous Metals:

Impurities removal equipment for Zinc recycling raw material

Electronics Materials:

Equipment for research and development of new products

Metal Processing:

Copper alloy products manufacturing facilities

Heat treatment:

Heat treatment processing facilities

\_ ....

## **Ref. Historical Data**

■ Consolidated	d financial data															Billion yer
				FY2016					FY2017					FY2018		
		1Q	2Q	3Q	4Q	Full year	1Q	2Q	3Q	4Q	Full year	1Q	2Q	3Q	4Q	Full yea
Total	Net Sales	93.7	91.0	102.9	122.8	410.5	110.1	109.1	119.3	116.1	454.7	115.1	106.6	114.4	116.5	452.9
	Operating Income	7.6	5.7	7.3	13.3	33.9	8.2	6.4	8.6	7.6	30.9	6.9	2.4	3.4	5.9	18.6
	Ordinary Income	6.8	6.7	9.1	13.7	36.5	9.0	8.1	10.4	8.6	36.3	8.5	4.2	4.0	7.3	24.3
	Profit attributable to owners of parent	4.9	4.9	6.4	9.8	26.1	6.1	5.5	7.4	5.4	24.6	6.0	2.8	1.7	4.2	14.9
Environmental	Net Sales	21.8	23.5	23.3	28.1	96.9	24.3	23.9	25.1	25.8	99.3	26.3	24.8	25.2	27.8	104.4
Management &	Operating Income	1.0	1.6	1.9	2.0	6.6	1.6	0.9	1.3	1.0	4.9	1.7	1.0	1.6	1.2	5.6
Recycling	Ordinary Income	0.8	1.6	2.1	2.1	6.8	1.7	1.2	1.6	1.1	5.7	1.9	1.3	1.6	1.3	6.2
	Net Sales	49.7	44.7	52.2	60.9	207.7	50.1	52.2	58.2	57.2	217.9	58.7	50.6	54.8	57.5	221.6
Nonferrous Metals	Operating Income	2.9	0.3	1.3	5.4	10.0	2.9	1.4	2.8	2.0	9.2	1.6	(1.4)	(1.6)	2.0	0.5
	Ordinary Income	2.9	0.9	2.4	5.8	12.2	3.8	2.6	3.5	2.9	13.0	2.8	(0.1)	(1.1)	3.1	4.6
	Net Sales	13.1	13.9	17.1	18.3	62.5	23.2	17.7	20.6	16.0	77.7	17.7	15.5	17.0	14.6	64.9
Electronics Materials	Operating Income	1.4	1.4	1.4	2.2	6.5	1.4	1.5	1.4	1.0	5.6	1.1	0.4	0.3	0.2	2.1
Waterials	Ordinary Income	1.2	1.5	1.8	2.1	6.8	1.5	1.7	1.6	1.1	6.1	1.3	0.7	0.4	0.4	3.1
	Net Sales	17.5	17.5	18.9	21.4	75.4	21.0	21.1	24.5	23.8	90.6	23.0	22.9	23.3	22.6	92.0
Metal Processing	Operating Income	1.5	1.6	1.7	2.0	6.9	1.5	1.6	2.0	2.0	7.2	1.6	1.4	1.9	1.2	6.2
	Ordinary Income	1.5	1.6	1.8	2.0	7.1	1.6	1.7	2.0	2.0	7.5	1.7	1.4	1.9	1.2	6.4
	Net Sales	5.5	5.9	6.3	7.2	25.1	5.9	7.0	6.9	8.3	28.2	6.3	7.2	7.9	8.0	29.7
Heat Treatment	Operating Income	0.4	0.4	0.4	1.0	2.3	0.3	0.7	0.6	0.9	2.6	0.4	0.7	0.7	0.4	2.4
	Ordinary Income	0.3	0.3	0.5	0.9	2.2	0.2	0.7	0.6	0.8	2.5	0.5	0.7	0.8	0.4	2.5
	Net Sales	(14.0)	(14.8)	(15.1)	(13.4)	(57.4)	(14.5)	(13.0)	(16.2)	(15.3)	(59.1)	(17.1)	(14.5)	(13.9)	(14.2)	(59.9
Other/ Elimination	Operating Income	0.2	0.2	0.3	0.5	1.3	0.3	0.1	0.3	0.5	1.2	0.2	0.1	0.3	0.6	1.4
Limitation	Ordinary Income	(0.1)	0.5	0.2	0.5	1.1	0.0	0.0	0.8	0.5	1.3	0.1	0.0	0.3	0.7	1.2
Exchange rate ar	nd Metal prices			)16 (avera					017 (avera	-				)18 (averag		
	<b>.</b>	1Q	2Q	3Q	4Q	Full year	1Q	2Q	3Q	4Q	Full year	1Q	2Q	3Q	4Q	Full yea
Exchange Rate: (¥/S	<b>\$</b> )	108.1	102.4	109.3	113.6	108.4	111.1	111.0	113.0	108.3	110.9	109.1	111.5	112.9	110.2	110.
Copper: (\$/t)		4,730	4,774	5,281	5,834	5,154	5,663	6,347	6,808	6,959	6,444	6,872	6,103	6,168	6,220	6,34
Zinc: (\$/t)		1,915	2,253	2,518	2,781	2,367	2,598	2,962	3,234	3,422	3,054	3,114	2,534	2,630	2,704	2,74
Indium: (\$/kg)		237	206	195	190	207	186	182	239	298	226	307	266	233	210	25

## DOVA

\* Forward-looking statements made in this document, such as business forecast, are based on the information available at this time and on certain premises that the Company assumes to be reasonable. Actual performance may differ materially from such forecasts due to a variety of factors.