



FY2017 Financial Results

President

Keiichi Kobayashi

Director, Corporate Executive Vice President, and General Manager of the Finance & Procurement

Hiroyuki Ogiwara

May 9th, 2018 FURUKAWA ELECTRIC CO., LTD

Forward-Looking Statements

Projections of future sales and earnings in these materials are "forward-looking statements."

Management offers these projections in good faith and on the basis of information presently available. Information in these statements reflects assumptions about such variables as economic trends and currency exchange rates.

Forward-looking statements incorporate known and unknown risks as well as other uncertainties that include, but are not limited to, the following items.

- Economic trends in the U.S., Europe, Japan and elsewhere in Asia, particularly with regard to consumer spending and corporate expenditures.
- Changes in exchange rates of the U.S. dollar, euro, and Asian currencies.
- Furukawa Electric Group's ability to respond to rapid advances in technology.
- Changes in assumptions involving financial and managerial maters and the operating environment.
- Current and future trade restrictions and related matters in foreign countries.
- Changes in the market value of securities held by the Furukawa Electric Group.

Due to the above factors, actual sales, earnings, and other operating results may differ significantly from Looking Statements in these materials. In addition, following the release of these materials, Furukawa Electric Group assumes no obligation to announce any revisions to forward-looking statement in these materials

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FURUKAWA ELECTRIC CO., LTD.

FY2017 Results Highlights



- Operating income totaled <u>JPY 44.8 billion, up JPY 6.2 billion (up 16%) YoY</u>
 Operating income ratio of net sales was on par with last year at <u>4.6% (up 0.1%)</u> as a result of increased sales following the rise in copper prices
 - Operating income increased in the <u>Electronics & Automotive Systems segment and</u> <u>Functional Products segment</u>
 - Improvements to the product mix, such as Copper Foil and Copper & High Performance Material Products, had a positive contribution
- Net income totaled JPY 28.5 billion, up JPY 11.0 billion (up 62%) YoY
 - The large increase in net income was attributable to the <u>growth of operating income</u> and improvements in equity method

(JPY billion)

	FY2016	FY2017				
	Results	*Previous forecast	Results	YtoY change	Change from previous forecast	
Net Sales	843.3	950.0	967.3	+124.0	+17.3	
Operating income	38.6	43.0	44.8	+6.2	+1.8	
Ordinary income	36.0	45.0	46.9	+10.9	+1.9	
Net income attributable to owners of the parent	17.6	25.5	28.5	+11.0	+3.0	

^{*}Announced on February 6, 2018

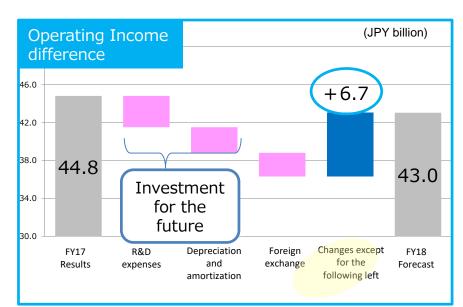
FY2018 Management Policies and Goals



- As preparation for achieving the 2020 medium-term management plan, strengthen the <u>capital and R&D</u> <u>investments</u> in the key segments
- Strengthen the cost competitiveness that is able to respond to changes in the business environment
 - Implement initiatives aimed at company-wide reductions to the cost of manufacturing, including the proactive introduction of automation and IoT/AI and a major review of the existing manufacturing processes
- Continue the **review of low profitable business** based on operating assets

FY2018 operating income is expected to grow by JPY 6.7 billion YoY, excluding the impact of a stronger yen and higher expenses following increased investments for securing future growth

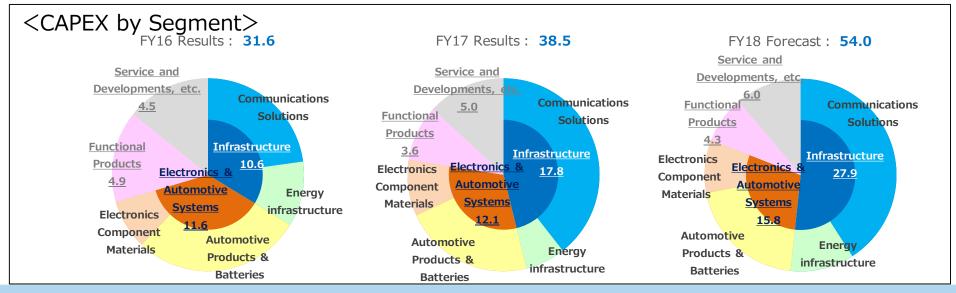
			(JPY billion)
	FY2017	FY20	018
	Results	Forecast	YtoY change
Net Sales	967.3	1,000.0	+32.7
Operating income	44.8	43.0	▲ 1.8
Ordinary income	46.9	43.5	▲ 3.4
Net income attributable to owners of the parent	28.5	23.0	▲ 5.5



Strengthen the Capital and R&D investments FURUKAWA

- Increase growth-oriented investments with a focus on the infrastructure and automotive areas
- Communications Solutions: Increase production of optical fiber and cable products in line with the growing demand, and R&D investments in high value-added products
- Energy Infrastructure: Develop a production framework for responding to future market requirements
- Automotive products: Strengthen the production system for harnesses with consideration for the demand for lighter
 products resulting from advances in vehicle electrification and autonomous driving, and
 accelerate the development of automotive products, such as next-generation radar that will be
 required for advanced driving support systems

	FY16	FY17	FY18	YtoY
	Results	Results	Forecast	change
CAPEX	31.6	38.5	54.0	+15.5
Depreciation and amortization	23.4	25.1	27.8	+2.7
R&D expenses	17.5	19.5	22.8	+3.3



FY2018 Management index

	FY16	FY16 FY17	
Equity capital ratio	27.6%	29.0%	30%
NET D/E ratio	0.99	0.88	0.9
Total asset turnover ratio (Net sales/ Total assets *1)	1.16	1.24	1.2
Return on operating assets (Operating income/ Operating assets *2)	12.1%	13.1%	12%
ROE	9.3%	12.9%	10%

^{*1} Total assets = (beginning balance + ending balance)/2, *2 Operating assets = inventories + tangible and intangible fixed assets

Return to Shareholders

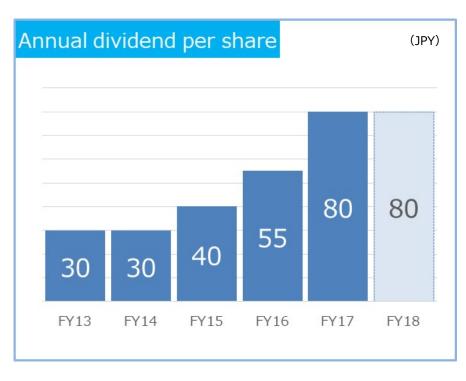


■ The FY2017 dividend will be raised JPY 10 from the previous forecast (announced on February 6, 2018), an increase of JPY 25 YoY

					(JPY)
	FY16	FY17			FY18
		* ¹ Previous forecast	* ² Previous forecast		Forecast
Annual dividend per share	55	60	70	80	80

^{*1}Announced on May 10, 2017

We will maintain a stable dividend policy while keeping a good balance between investment in future growth and financial health



We conducted a one-for-ten reverse stock split of our company's common shares effective October 1, 2016. Therefore, the dividends per share for FY2013 to FY2015 shown in the graph have been increased 10 fold to make them comparable to the dividends following the reverse stock split.

^{*2}Announced on February 6, 2018

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FY2017 Results

FY2017 Results - Summary P&L

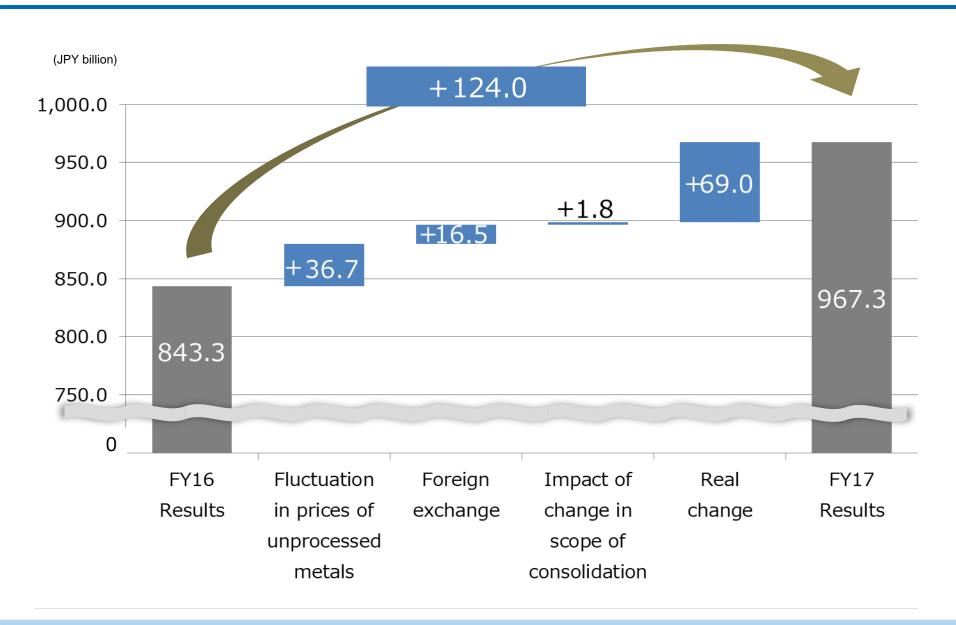


(JPY billion, JPY/kg, JPY/USD)

	FY	'16	FY	17	YtoY o	change	Breakdown of change
		Q4		Q4		Q4	(Full year)
	a	b	С	d	c-a	d-b	
Net sales	843.3	238.4	967.3	263.9	+124.0	+25.5	+124.0 (+15%) See page 11
Operating income	38.6	14.9	44.8	11.5	+6.2	▲ 3.3	+6.2 (+16%)
(Ratio)	4.6%	6.2%	4.6%	4.4%	+0.1	▲ 1.9	See page 12
Profit/loss in equity method affiliates	0.1	0.6	4.3	0.8	+4.2	+0.2	
Foreign exchange gain/loss	▲ 1.2	▲ 0.0	▲ 1.2	▲ 0.4	▲ 0.0	▲ 0.4	
Ordinary income	36.0	15.2	46.9	12.1	+10.9	▲ 3.1	+10.9 (+30%)
(Ratio)	4.3%	6.4%	4.8%	4.6%	+0.6	▲ 1.8	
Extraordinary income/loss	▲ 8.1	▲ 15.8	▲ 6.4	▲ 11.9	+1.6	+3.9	•Extraordinary income $\triangle 2.7 (12.4 \rightarrow 9.8)$
Income taxes	5.5	▲ 0.9	8.2	▲ 0.1	+2.6	+0.8	•Extraordinary loss
Net income attributable to non-controlling interests	4.9	1.7	3.8	1.0	▲ 1.1	▲ 0.7	+4.3 (▲20.5 → ▲16.2)
Net income attributable to owners of parent	17.6	▲ 1.3	28.5	▲ 0.7	+11.0	+0.6	+11.0 (+62%)
(Ratio)	2.1%	▲ 0.6%	3.0%	▲ 0.3%	+0.9	+0.3	
Average copper price	604	705	757	798	_	_	
Average exhange rate	108	114	111	108	-	_	

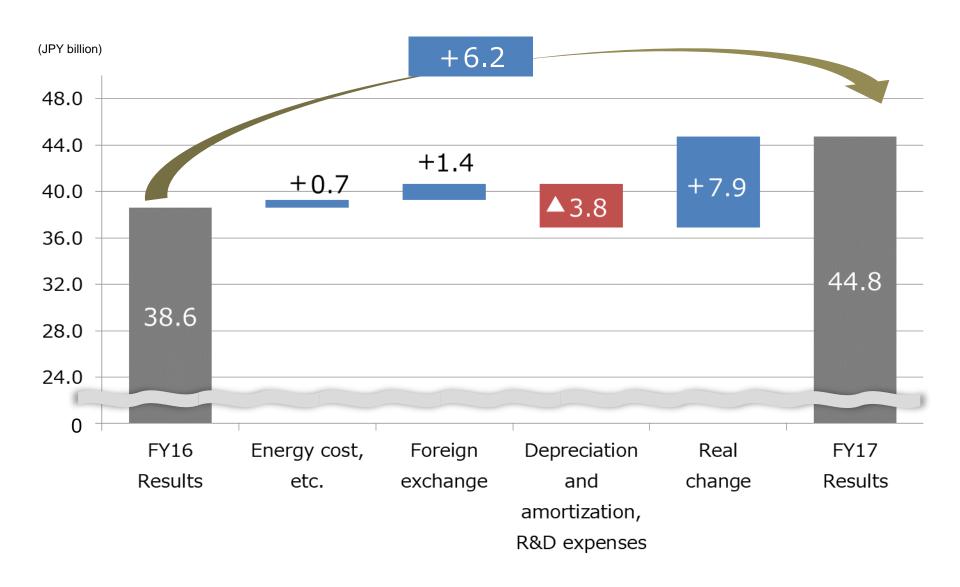
Analysis of Changes in Net Sales (YOY)





Analysis of Changes in Operating income (YOY)





Net Sales and Operating Income by Segment



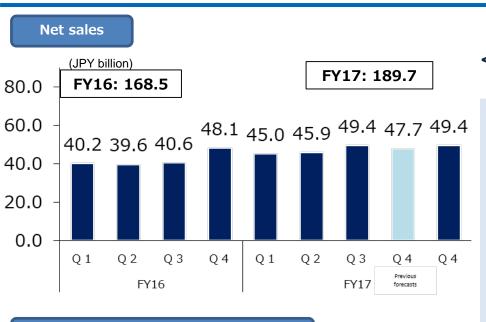
(JPY billion)

				Full year		
		FY16	FY17	FY17	YtoY	Change from
		Results	*Previous Forecast	Results	Change	previous forecast
	Infrastructure	263.8	293.0	291.8	+28.0	▲ 1.2
	Communications Solutions	168.5	188.0	189.7	+21.2	+1.7
7.0	Energy infrastructure	95.3	105.0	102.1	+6.8	▲ 2.9
sales	Electronics & Automotive Systems	455.5	527.0	533.8	+78.3	+6.8
Sa	Automotive Products & Batteries	223.4	242.0	248.1	+24.7	+6.1
Net :	Electronics Component Materials	232.1	285.0	285.6	+53.6	+0.6
Ž	Functional Products	131.5	150.0	153.1	+21.6	+3.1
	Service and Developments, etc.	49.7	50.0	52.9	+3.3	+2.9
	Elimination of intra-company transactions	▲ 57.0	▲ 70.0	▲ 64.3	▲ 7.3	+5.7
	Total	843.3	950.0	967.3	+124.0	+17.3
_	Infrastructure	14.3	11.1	12.8	▲ 1.6	+1.7
income	Communications Solutions	14.2	14.1	14.1	▲ 0.1	+0.0
Ö	Energy infrastructure	0.1	▲ 3.0	▲ 1.4	▲ 1.5	+1.6
2	Electronics & Automotive Systems	12.8	18.0	18.2	+5.4	+0.2
	Automotive Products & Batteries	10.1	13.0	13.2	+3.1	+0.2
<u>=</u> .	Electronics Component™aterials	2.7	5.0	5.0	+2.3	+0.0
at	Functional Products	11.7	14.0	14.0	+2.3	▲ 0.0
Operating	Service and Developments, etc.	▲ 0.1	▲ 0.1	▲ 0.2	▲ 0.1	▲ 0.1
Ö	Elimination of intra-company transactions	▲ 0.0	0.0	0.1	+0.1	+0.1
	Total	38.6	43.0	44.8	+6.2	+1.8
			* ^	Fobruary 6 201	0	

^{*}Announced on February 6, 2018

1-(1) Infrastructure (Communications Solutions)





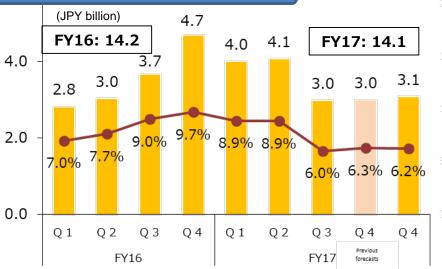


YoY difference JPY ▲0.1 billion

☐: Positive growth factors ■: Negative growth factors

- ☐ Demand for optical fiber was strong worldwide (Recovery in the demand for optical cable in North America was slower than initially forecast)
- ☐ Increased demand resulting from progress of FTTH method CATV systems in Japan had a positive contribution
- Decreased income on lower revenue for digital coherent-related products due to an inventory correction in China in the second half

Operating income / operating margin

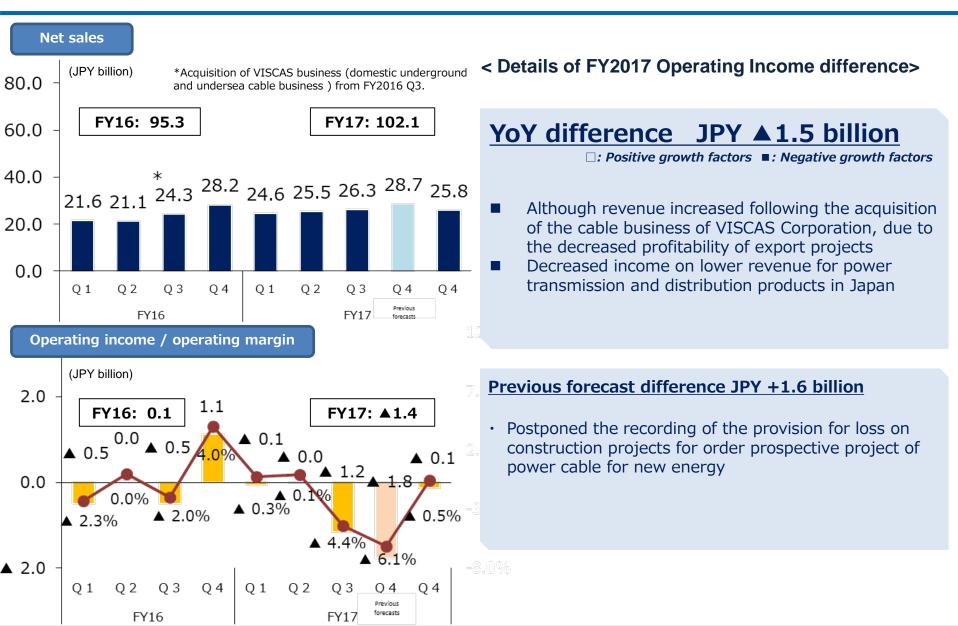


Previous forecast difference JPY +0 billion

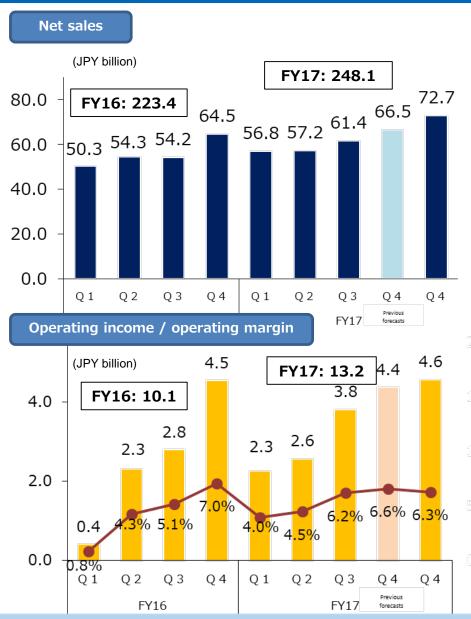
- Optical fiber and cable products were roughly according to the forecast
- Impact of the inventory correction in digital coherent products was roughly as forecast

1-(2) Infrastructure (Energy Infrastructure)





2-(1) Electronics & Automotive systems (Automotive Products & Batteries)



< Details of FY2017 Operating Income difference>

YoY difference JPY+3.1 billion

☐: Positive growth factors ■: Negative growth factors

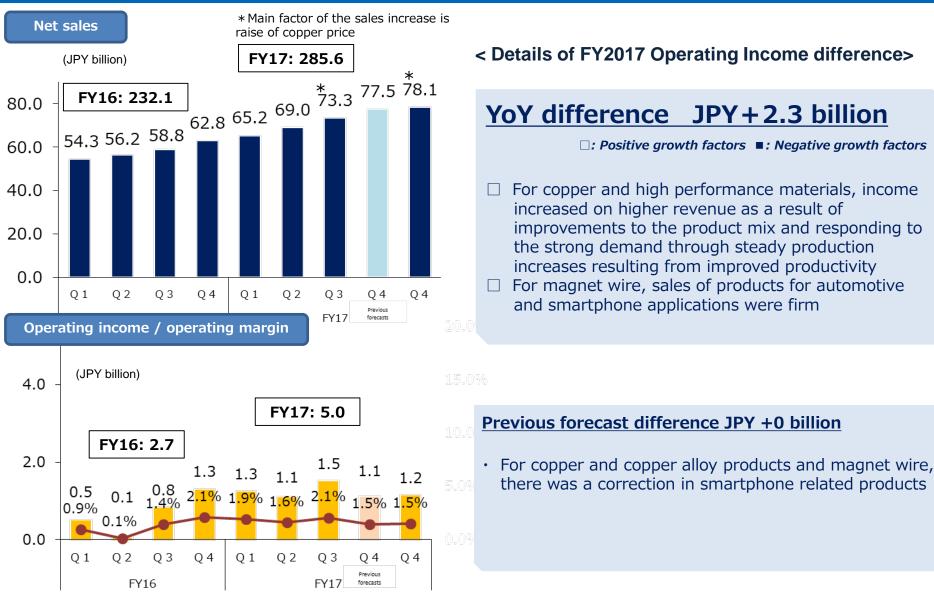
- ☐ Sales of the wire harnesses adopted for the new vehicle models were strong
- ☐ Improvements to cost of sales, such as increased production efficiency and reduced distribution costs, had a positive contribution

Previous forecast difference JPY +0.2 billion

Sales of the wire harnesses remained strong

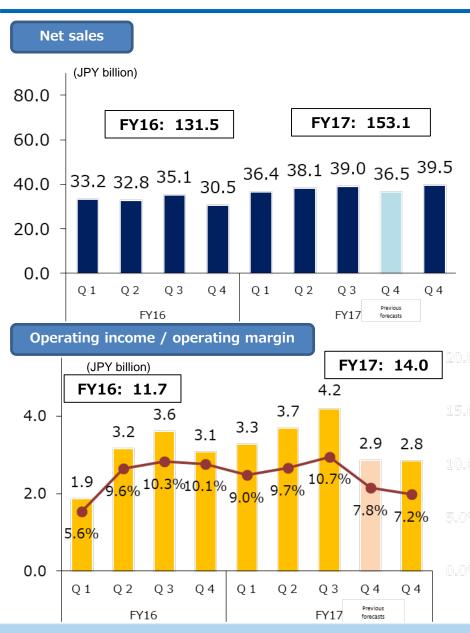
2-(2) Electronics & Automotive systems (Electronics Component Material)





3 Functional Products





< Details of FY2017 Operating Income difference>

YoY difference JPY+2.3 billion

☐: Positive growth factors ■: Negative growth factors

- For copper foil, backed by a strong demand environment, increased productivity and improvements to the product mix had a positive impact
- Sales of thermal management solution and products increased as a result of the firm demand for data centers despite the sluggish PC market
- Sales of tapes for semiconductor manufacturing declined due to an extremely competitive environment

Previous forecast difference JPY ▲0 billion

- Extremely competitive environment for tapes for semiconductor manufacturing continued to have an impact
- Impact of the year-end demand corrections in each business was roughly as forecast

FY2017 Results - BS Summary



(JPY billion)

				(JFT DIIIIOTI)
	End of 16Q4	End of 17Q4	Change	Breakdown of change
	a	b	b-a	
Current assets	382.4	426.1	+43.7	Inventories +9.4
Cash and bank deposits	47.2	50.6	+3.5	
Notes and accounts receivable trade	198.9	224.3	+25.5	
Non-current assets	367.7	389.7	+22.0	Increased by sales increase
Tangible fixed assets	205.5	216.7	+11.2	
Intangible fixed assets	9.7	11.3	+1.6	
Investments and other assets	152.5	161.7	+9.2	
Total Assets	750.1	815.8	+65.7	Impact of new consolidation +5.5
Current liabilities	293.4	330.3	+37.0	Increased by sales increase
Non-current liabilities	219.7	213.4	▲ 6.3	
Total Liabilities	513.1	543.8	+30.7	
Shareholders' equity	194.3	219.2	+24.9	
Accumulated other comprehensive income	12.4	17.3	+4.9	
Net income attributable to non-controlling interests	30.3	35.6	+5.2	
Total Net assets	237.1	272.1	+35.0	
Total Lianbilities and Net assets	750.1	815.8	+65.7	
Interest-bearing liabilities	252.5	258.5	+6.0	Impact of new consolidation +3.7
Capital ratio	27.6%	29.0%	+1.4	
NET D/E ratio	0.99	0.88	▲ 0.11	

[◇]Total assets: Increased compared to the end of last year as a result of higher sales and the impact of higher copper prices and share price

[♦] Interest-bearing debt: Slight increase due mainly to the impact of the new consolidation

FY2017 Results – CAPEX, Depreciation & amortization and R&D expenses

(JPY billion)

		FY	YtoY	Change	
	FY16 Results	*Previous Forecast	Results		from previous forecast
	а	b	С	c-a	c-b
CAPEX	31.6	42.0	38.5	+7.0	▲ 3.5
Depreciation and amortization	23.4	26.5	25.1	+1.7	▲ 1.4
R&D expenses	17.5	19.4	19.5	+2.1	+0.1

^{*}Announced on February 6, 2018



FY2018 Forecast

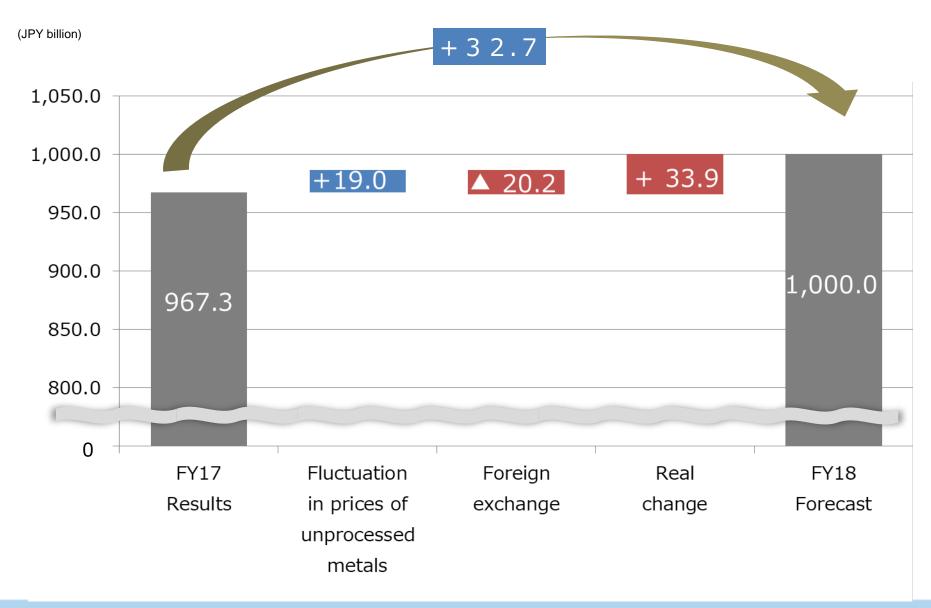
FY2018 Forecast - Summary P&L

(JPY billion, JP)	//kg, .	JPY/U	ISD)
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	FY17 Results	FY18 Forecast	YoY change
	а	b	b-a
Net sales	967.3	1,000.0	+32.7
Operating income	44.8	43.0	▲ 1.8
(Ratio)	4.6%	4.3%	▲ 0.3
Profit/loss in equity method affiliates	4.3	_	-
Foreign exchange gain/loss	▲ 1.2	_	_
Ordinary income	46.9	43.5	▲ 3.4
(Ratio)	4.8%	4.4%	▲ 0.5
Extraordinary gain/loss	▲ 6.4	▲ 8.0	▲ 1.6
Income taxes	8.2	-	_
Net income attributable to non-controlling interests	3.8	-	-
Net income attributable to owners of the parent	28.5	23.0	▲ 5.5
(Ratio)	3.0%	2.3%	▲ 0.7
Average copper price	757	800	
Average exhange rate	111	105	

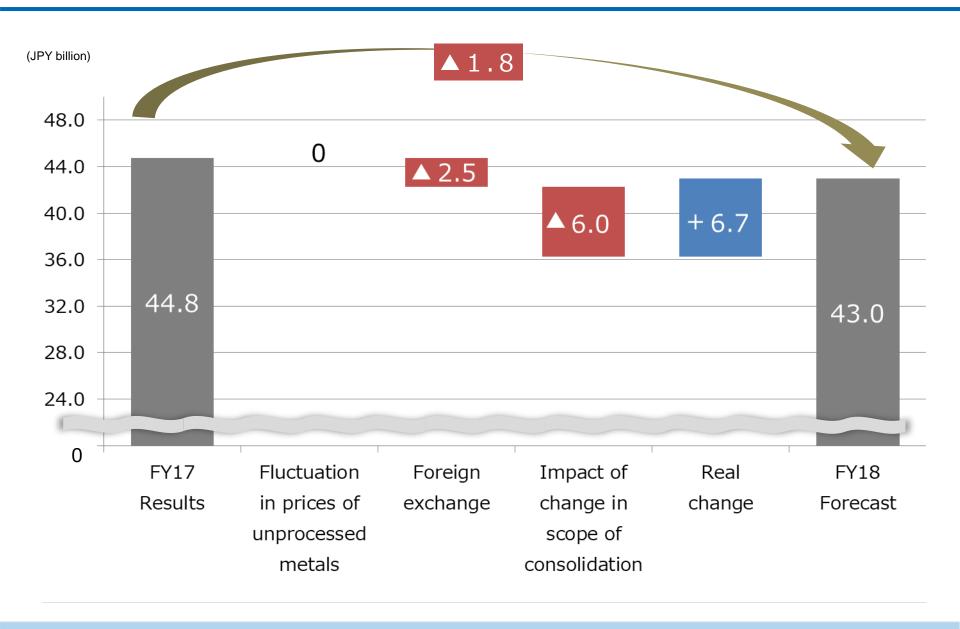
Analysis of Changes in Net Sales forecast (YOY)





Analysis of Changes in Operating income forecast (YOY)





Net Sales and Operating Income forecast by Segment



(JPY billion)

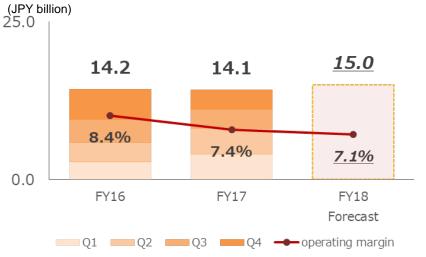
		Full year				
		FY16	FY17	FY18	YtoY	
		Results	Results	Forecast	Change	
	Infrastructure	263.8	291.8	320.0	+28.2	
	Communications Solutions	168.5	189.7	210.0	+20.3	
	Energy infrastructure	95.3	102.1	110.0	+7.9	
sales	Electronics & Automotive Systems	455.5	533.8	550.0	+16.2	
sal	Automotive Products & Batteries	223.4	248.1	250.0	+1.9	
Net :	Electronics Component Materials	232.1	285.6	300.0	+14.4	
Ž	Functional Products	131.5	153.1	155.0	+1.9	
	Service and Developments, etc.	49.7	52.9	50.0	▲ 2.9	
	Elimination of intra-company transactions	▲ 57.0	▲ 64.3	▲ 75.0	▲ 10.7	
	Total	843.3	967.3	1,000.0	+32.7	
	Infrastructure	14.3	12.8	12.0	▲ 0.8	
வ	Communications Solutions	14.2	14.1	15.0	+0.9	
income	Energy infrastructure	0.1	▲ 1.4	▲ 3.0	▲ 1.6	
Š	Electronics & Automotive Systems	12.8	18.2	17.5	▲ 0.7	
	Automotive Products & Batteries	10.1	13.2	12.0	▲ 1.2	
Ë	Electronics Component Materials	2.7	5.0	5.5	+0.5	
Operating	Functional Products	11.7	14.0	13.5	▲ 0.5	
pe	Service and Developments, etc.	▲ 0.1	▲ 0.2	0.0	+0.2	
0	Elimination of intra-company transactions	▲ 0.0	0.1	0.0	▲ 0.1	
	Total	38.6	44.8	43.0	▲ 1.8	

1-(1) Infrastructure (Communications Solutions)









< Details of FY2018 Operating Income forecast and focus>

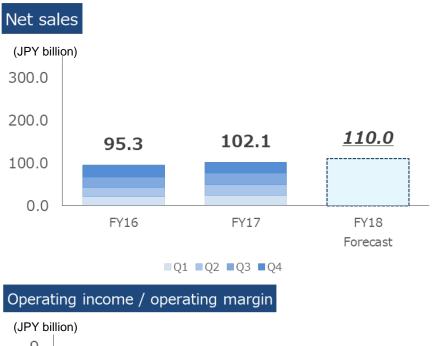
YoY difference JPY+0.9 billion

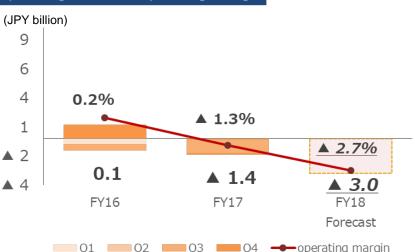
☐: Positive growth factors ■: Negative growth factors ✓ Focus point

- ☐ Demand for optical fiber will remain strong
- ☐ For digital coherent products, the inventory correction in the China market is thought to have bottomed out, but uncertainty remains
- Recovery in the demand for optical cable in North America will be weak
- Increased depreciation expenses for the production expansion investments and increased research and development expenses
- Sales and operating income for overseas subsidiaries and optical fiber exports will be affected by differences in the foreign currency exchange rates resulting from a strong yen
- ✓ Steadily implement the capital investment plan for optical fiber and cable products
- Expand the production capacity and sales of small diameter, multi-core optical fiber cable for supporting the establishment of large capacity networks (6912 core RR cable, etc)
- ✓ Promote the development of next generation products

1-(2) Infrastructure (Energy Infrastructure)







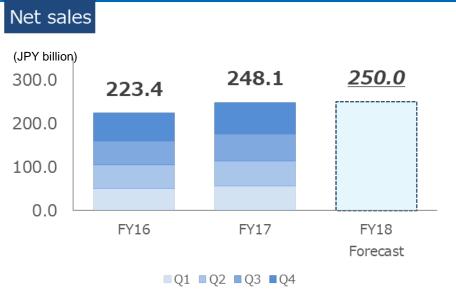
< Details of FY2018 Operating Income forecast and focus>

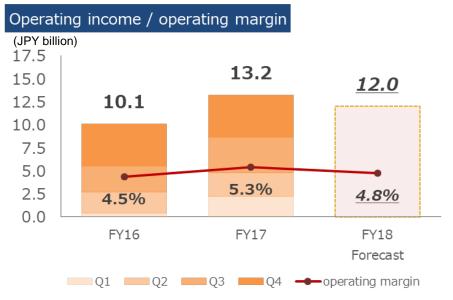
YoY difference JPY ▲ 1.6 billion

- ☐: Positive growth factors ■: Negative growth factors ✓ Focus point
- ☐ Reduced fixed expenses by restructuring the production base in China
- Profitability of overseas underground cable project orders already received to remain low
- Record the anticipated loss on the order prospective project of power cable for new energy (pushed back from FY2017)
- ✓ Increase orders for ultra high voltage cable in Japan
- ✓ Receive orders for submarine cable projects in Japan and overseas
- ✓ Enhance the capability to execute construction and the equipment for submarine cables
- ✓ Introduce low-voltage aluminum CV cable for building construction and electrical facilities

2-(1) Electronics & Automotive systems (Automotive Products & Batteries)







< Details of FY2018 Operating Income forecast and focus>

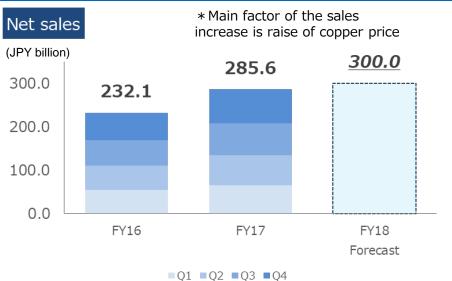
YoY difference JPY ▲ 1.2 billion

☐: Positive growth factors ■: Negative growth factors ✓ Focus point

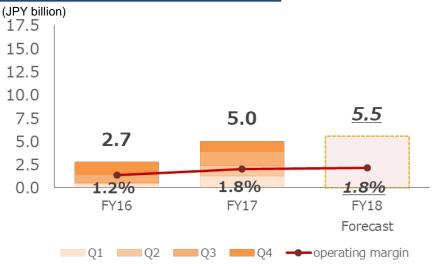
- ☐ For wire harnesses, although the differences in product mix will have a negative impact, sales will continue to be firm
- As an entrance into the electric vehicle market, start deliveries of high-voltage harnesses and high-voltage components
- Increase in fixed costs such as depreciation expenses and research and development expenses directed towards projects from 2020
- ✓ In relation to ADAS, complete development and start sales promotion activities for the next generation high-performance BSS* and next generation high precision radar
- ✓ Proactively acquire the demand for reduced weight resulting from advances in vehicle electrification and autonomous driving
 *BSS; Battery State Sensor

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2-(2) Electronics & Automotive systems (Electronics Component Material)







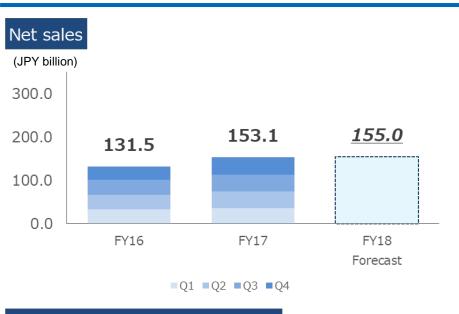
< Details of FY2018 Operating Income forecast and focus>

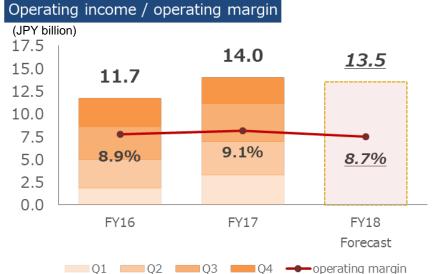
YoY difference JPY+0.5 billion

- ☐: Positive growth factors ■: Negative growth factors √ Focus point
- For copper & high performance material products, expect continued benefits from improvements to the product mix in line with market needs and increased productivity
- ☐ For magnet wire, expect continued increased income on higher revenue from automobile and smartphone applications
- Improve the product mix and increase productivity
- ✓ Introduce new alloys in response to the increased functionality of electronic devices
- ✓ Expand the models for which the automobile magnet wire is adopted, and increase sales in overseas markets

3 Functional Products







< Details of FY2018 Operating Income forecast and focus>

YoY difference JPY ▲ 0.5 billion

- ☐: Positive growth factors ■: Negative growth factors ✓ Focus point
- ☐ For copper foil, backed by a continued strong demand environment, further improve the product mix in line with market needs
- ☐ For thermal management solution & products and memory disks, although the demand for PCs will decline, data center demand will be firm
- Extremely competitive environment in tapes for semiconductor manufacturing will continue
- Improve the product mix and increase productivity
- ✓ Develop new markets, and propose new uses
- ✓ Develop next generation products

(Appendix) Segments and Business Divisions



Segment	Sub-segment	Business Division
Infrastructure	Communications Solutions	Optical Fiber and Cable Products
		FITEL Products
		Broadband Solutions Business
	Energy Infrastructure	Power Cable
		Industrial Cable & Power Cable Accessories
Electronics & Automotive Systems	Automotive Products	Automotive Products
	& Batteries	Batteries
	Electronics Component Material	Electric Conductor
		Magnet Wire
		Copper & High Performance Material Products
		Copper Tube
Functional Products		AT & Functional Plastics
		Thermal Management Solution & Products
		Memory Disk
		Copper Foil
Service and Developments, etc.		

Thank you very much for your attention.

