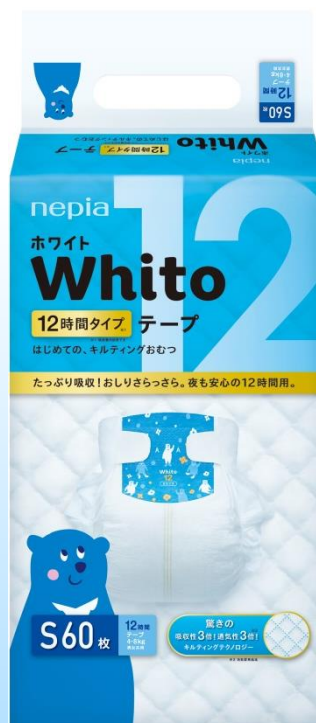




OJI HOLDINGS



February 2017: Launch of a new high quality disposable diaper brand, “White”



Summary of Financial Business Results

May 19, 2017



Beyond the Boundaries

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《Reference Materials》

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I . FY2016 Result Overview

1. Financial Highlights of FY2016 (consolidated)



(¥ billion)

		FY2015	FY2016	Increase (Decrease)
Net Sales		1,433.6	1,439.9	6.3
Operating Income		73.7	70.5	(3.2)
Ordinary Income		62.4	51.2	(11.2)
Profit		15.3	36.6	21.3
Attributable to Owners of Parent				
Depreciation		78.6	74.8	▲3.8
Overseas Sales Ratio		27.8%	28.2%	0.4%
Operating Income of Overseas Companies		29.4	20.0	(9.4)
Average Exchange Rate (¥/US\$)		120.1	108.4	(11.7)
Number of Consolidated Companies	Domestic	88	95	+7
	Overseas	88	102	+14
	Total	176	197	+21

Domestic +7 : +7 [Paper bag companies]

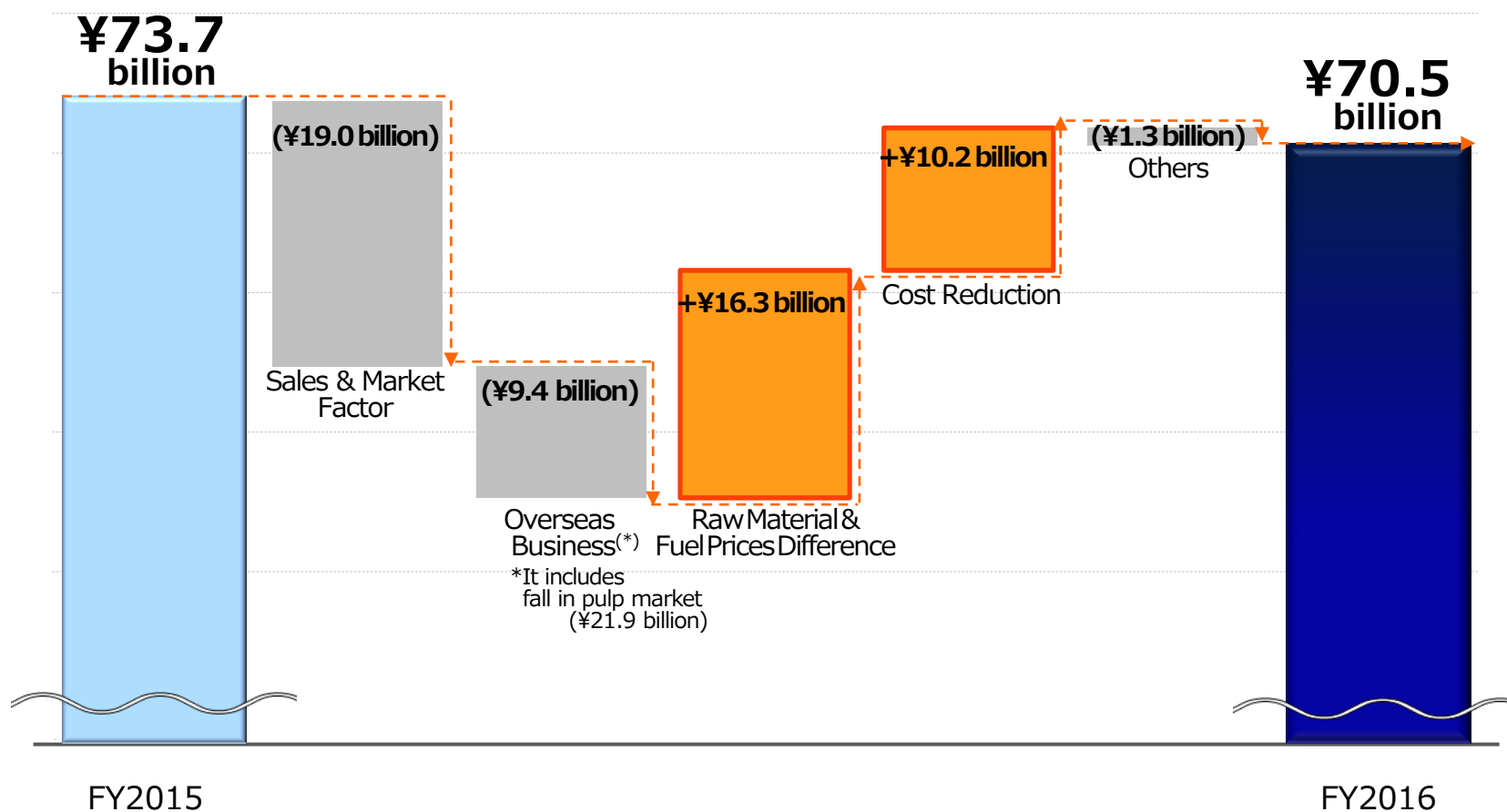
Overseas +14 : +5 [Paper bag companies], +1 [Functional materials company in China], +5 [Lumber companies],
+3 [2 label companies and 1 corrugated container company in Malaysia], +2 [Corrugated container
companies in Australia], etc.

Equity Method Affiliates +1 (Overseas +1)

2. Breakdown of Increase/Decrease of Operating Income [FY2015 to FY2016] (consolidated)



**Decrease in operating income (¥3.2 billion)
mainly due to influences from fall in pulp market,
despite continual cost reduction measures implemented.**



3. Sales and Operating Income by Segment

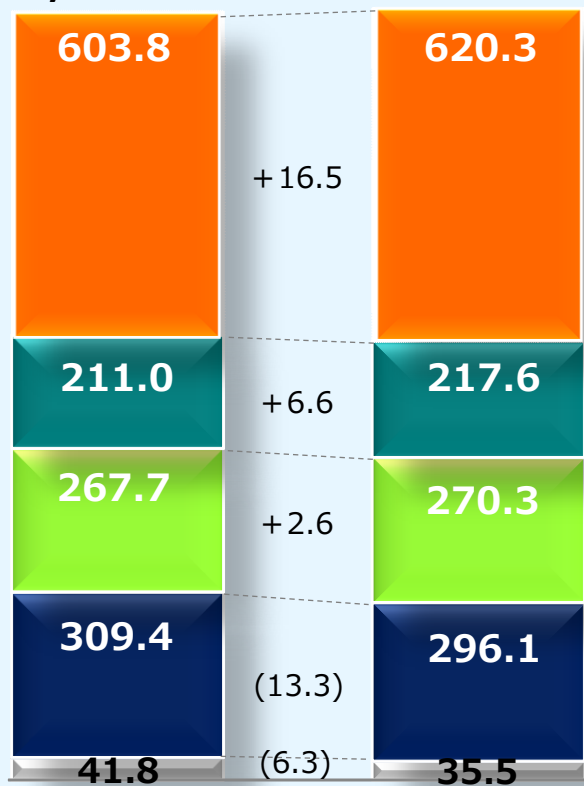
[FY2016 Result] (consolidated)



OJI HOLDINGS

Sales

1,433.6 +6.3 1,439.9

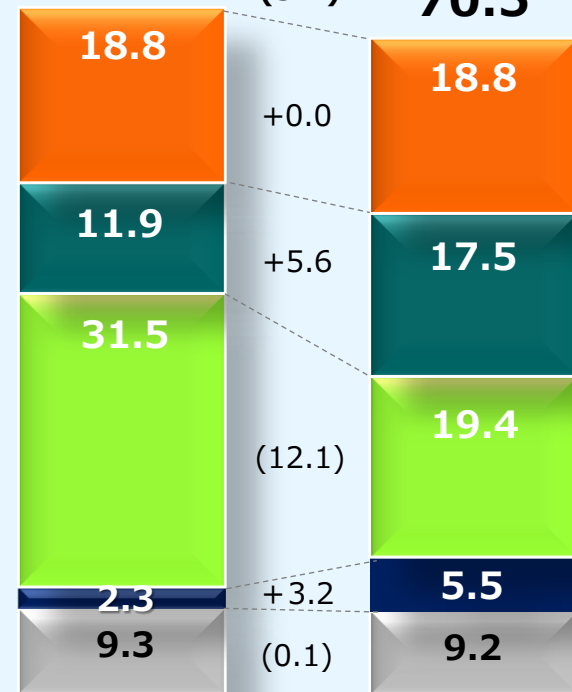


FY2015

FY2016

Operating Income

73.7 (3.2) 70.5



FY2015

FY2016

(¥ billion)

-  : Household & Industrial Materials
-  : Functional Materials
-  : Forest Resources & Environment Marketing
-  : Printing & Communications Media
-  : Others + Adjustment

4. Analysis of Increase/Decrease of Income by Segment

(1) Household and Industrial Materials

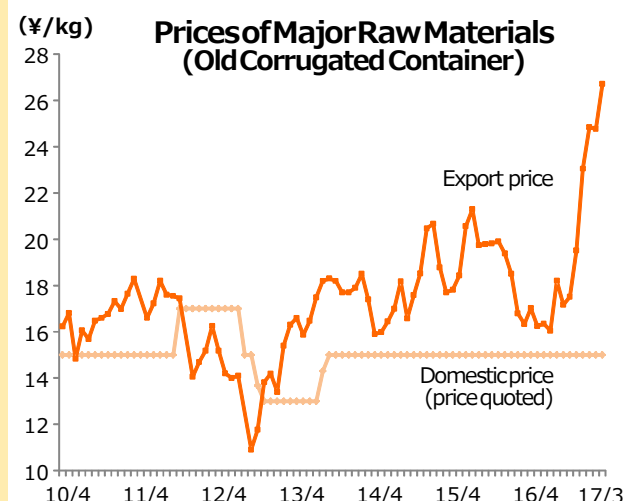
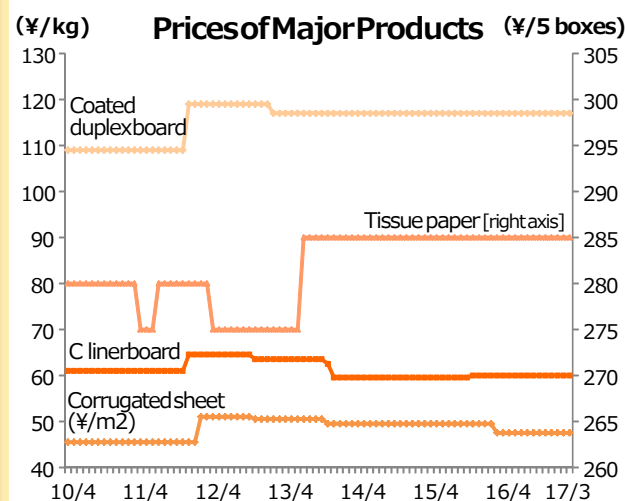


OJI HOLDINGS

FY 2015			FY 2016			Increase (Decrease)
Sales	Operating Income		Sales	Operating Income		Operating Income
¥603.8 billion	¥18.8 billion	Domestic ¥12.5 billion Overseas ¥6.3 billion	¥620.3 billion	¥18.8 billion	Domestic ¥15.1 billion Overseas ¥3.7 billion	+¥0.0 billion Domestic +¥2.6 billion Overseas (¥2.6 billion)

Factors behind the income increase(decrease) [+¥0.0 bil.]

- ◆ Domestic business ¥+2.6 bil.
 - Raw material&fuel pricesdifference ¥+5.2 bil.
 - Cost reduction ¥+4.8 bil.
 - Sales/market factor (¥7.1 bil.)
- ◆ Overseas business (¥2.6 bil.)
 - Decrease in yen-converted income due to yen appreciation, etc.; despite strong sales of corrugated containers in Southeast Asia



Sales of Major Products (*)			FY2015			FY2016			Increase (Decrease)			
			Sales Volume 1,000 t (or) million m2 (or) million pcs	Unit Price ¥/kg (or) m2 (or) pc	Sales Amount ¥ billion	Sales Volume 1,000 t (or) million m2 (or) million pcs	Unit Price ¥/kg (or) m2 (or) pc	Sales Amount ¥ billion	Sales Volume 1,000 t (or) million m2 (or) million pcs	Year-on Year %	Unit Price ¥/kg (or) m2 (or) pc	Sales Amount ¥ billion
Paper	Household paper	Domestic	193	230.71	44.5	194	228.97	44.4	1	100.6%	(1.74)	(0.1)
	Packaging paper	Domestic	256	108.39	27.7	266	99.52	26.4	10	104.0%	(8.87)	(1.3)
Paperboard		Domestic	2,943	64.82	190.7	3,034	63.55	192.8	91	103.1%	(1.27)	2.1
Corrugated sheet & container (million m2)		Domestic & Overseas	3,803	63.48	241.4	3,864	62.57	241.7	61	101.6%	(0.91)	0.3
Disposable diaper (million pcs)		Domestic & Overseas	876	19.84	17.4	897	19.73	17.7	20	102.3%	(0.10)	0.3

*Total of Group's consolidated manufacturing companies, with intra-Group consumption included

4. Analysis of Increase/Decrease of Income by Segment

(2) Functional Materials



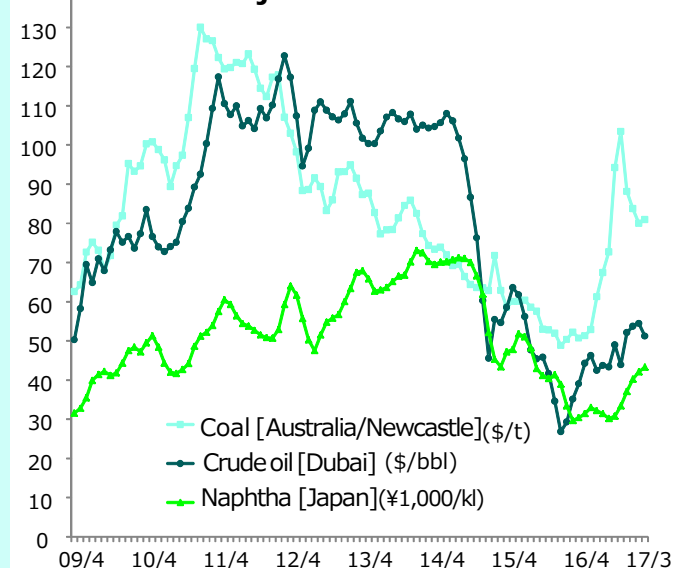
OJI HOLDINGS

FY2015			FY2016			Increase (Decrease)
Sales	Operating Income		Sales	Operating Income		Operating Income
¥211.0 billion	¥11.9 billion	Domestic ¥9.3 billion Overseas ¥2.6 billion	¥217.6 billion	¥17.5 billion	Domestic ¥12.8 billion Overseas ¥4.7 billion	+¥5.6 billion Domestic +¥3.5 billion Overseas +¥2.1 billion

Factors behind the income increase(decrease) [+¥5.6 billion]

◆ Domestic business	+¥3.5 bil.	◆ Overseas business	+¥2.1 bil.
Raw material&fuel prices difference	+¥3.9 bil.	Strong sales of thermal paper in : South America and Asia	
Cost reduction	+¥2.8 bil.		
Sales/market factor	(¥2.4 bil.)		
	etc.		

Prices of Major Raw Materials and Fuels



Sales of Major Products (*)		FY2015			FY2016			Increase (Decrease)			
		Sales Volume 1,000t (or) million m2	Unit Price ¥/kg (or) m2	Sales Amount ¥ billion	Sales Volume 1,000t (or) million m2	Unit Price ¥/kg (or) m2	Sales Amount ¥ billion	Sales Volume 1,000t (or) million m2	Year-on Year %	Unit Price ¥/kg (or) m2	Sales Amount ¥ billion
Thermal paper (million m2)	Domestic & Overseas	3,127	19.92	62.3	3,220	19.95	64.3	94	103.0%	0.03	2.0
Specialty paper	Domestic	177	245.17	43.3	189	235.59	44.5	12	106.9%	(9.58)	1.2

*Total of Group's consolidated manufacturing companies, with intra-Group consumption included

4. Analysis of Increase/Decrease of Income by Segment

(3) Forest Resources and Environment Marketing



FY 2015

Sales

Operating Income

¥267.7 billion

¥31.5 billion

Domestic ¥7.3 billion

Overseas ¥24.2 billion



FY 2016

Sales

Operating Income

¥270.3 billion

¥19.4 billion

Domestic ¥8.7 billion

Overseas ¥10.7 billion

Increase (Decrease)

Operating Income

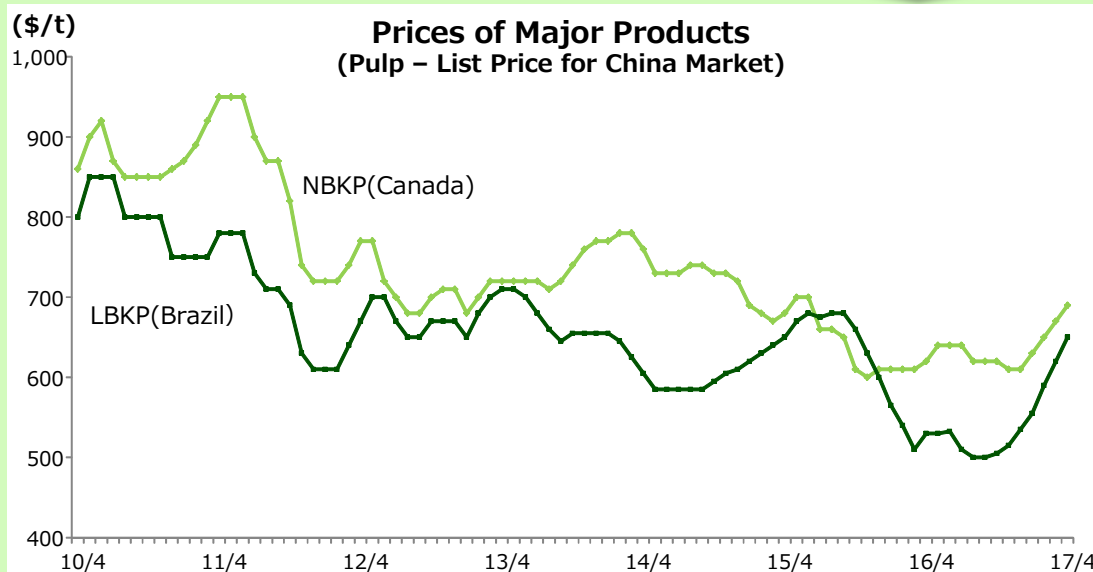
(¥12.1 billion)

Domestic +¥1.4 billion

Overseas (¥13.5 billion)

Factors behind the income increase(decrease)[(¥12.1 billion)]

- ◆ Domestic business +¥1.4 bil.
 - Increase in income of energy business due to start of commercial operation of a new biomass electric power boiler in January 2016
 - Strong export sales of dissolving pulp
- ◆ Overseas business (¥13.5 bil.)
 - Fall in pulp market (¥21.9 bil.)
 - Sales expansion of pulp, etc. +¥8.4 bil.



Sales of Major Products (*)		FY2015			FY2016			Increase (Decrease)			
		Sales Volume	Unit Price	Sales Amount	Sales Volume	Unit Price	Sales Amount	Sales Volume	Year-on Year	Unit Price	Sales Amount
		1,000t (or) GWh	¥/kg (or) ¥/kWh	¥ billion	1,000t (or) GWh	¥/kg (or) ¥/kWh	¥ billion	1,000t (or) GWh	%	¥/kg (or) ¥/kWh	¥ billion
Market pulp	Domestic & Overseas	2,168	68.33	148.2	2,378	58.13	138.2	209	109.7%	(10.20)	(9.9)
(Dissolving pulp)	Domestic	75	101.99	7.7	95	96.75	9.2	20	126.7%	(5.24)	1.5
Electric power (Gwh)	Domestic	877	20.25	17.8	1,052	20.31	21.4	175	119.9%	0.06	3.6

*Total of Group's consolidated manufacturing companies, with intra-Group consumption included

4. Analysis of Increase/Decrease of Income by Segment

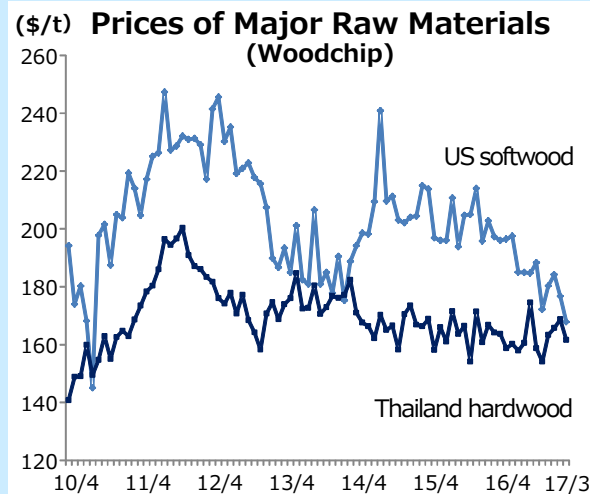
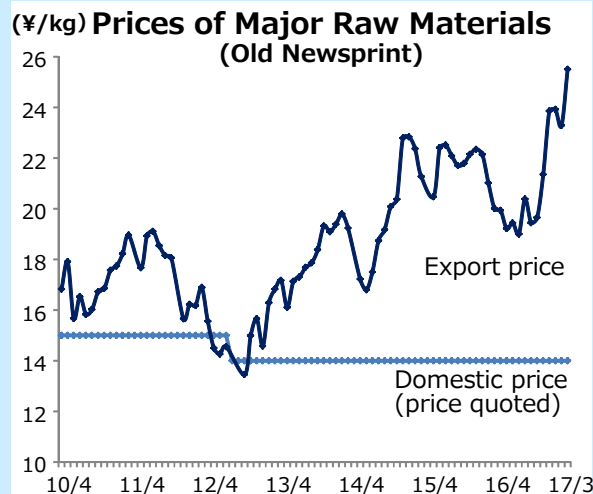
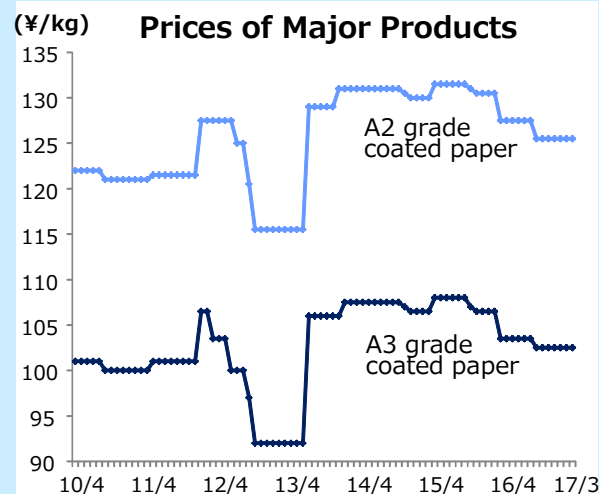
(4) Printing and Communications Media



FY 2015			FY 2016			Increase (Decrease)
Sales	Operating Income		Sales	Operating Income		Operating Income
¥309.4 billion	¥2.3 billion	Domestic ¥5.9 billion Overseas (¥3.6 billion)	¥296.1 billion	¥5.5 billion	Domestic ¥4.5 billion Overseas ¥1.0 billion	+¥3.2 billion Domestic (¥1.4 billion) Overseas ¥4.6 billion

Factors behind the income increase (decrease) [+¥3.2 bil.]

- ◆ Domestic Business (¥1.4 bil.) Sales/market factor (¥9.4 bil.) Raw material & fuel prices difference +¥7.2 bil. etc.
- ◆ Overseas Business +¥4.6 bil. Cost reduction +¥2.1 bil.
- ◆ Improved sales/income due to continual cost reduction and increased sales of printing paper



Sales of Major Products (*)		FY2015			FY2016			Increase (Decrease)		
		Sales Volume 1,000 t	Unit Price ¥/kg	Sales Amount ¥ billion	Sales Volume 1,000 t	Unit Price ¥/kg	Sales Amount ¥ billion	Sales Volume 1,000 t	Year-on Year %	Unit Price ¥/kg
Newsprint, printing & communication paper	Domestic	2,452	110.02	269.8	2,423	106.87	258.9	(29)	98.8%	(3.15)
										(10.8)

*Total of Group's consolidated manufacturing companies, with intra-Group consumption included

II. FY2017 Financial Forecast

1. Financial Forecast for FY2017 (consolidated)



(¥ billion)

	FY2016	FY2017E	Increase (Decrease)
Net Sales	1,439.9	1,500.0	60.1
Operating Income	70.5	75.0	4.5
Ordinary Income	51.2	64.0	12.8
Profit Attributable to Owners of Parent	36.6	37.0	0.4
Depreciation	74.8	72.4	(2.4)
Overseas Sales Ratio	28.2%	29.4%	1.2%
Operating Income of Overseas Companies	20.0	33.3	13.3
Average Exchange Rate (¥/US\$)	108.4	115.0	6.6

*The above forecasts are based on the forecasts of economic conditions made at the time of publication.
As such, actual results may differ from these forecasts due to various unforeseen circumstances.

Assumptions for FY2017 Financial Forecast

◆Raw Material & Fuel Prices

- Woodchip :
based on current contract
- Recovered paper :
price to remain static at current level
- Coal
based on current contract

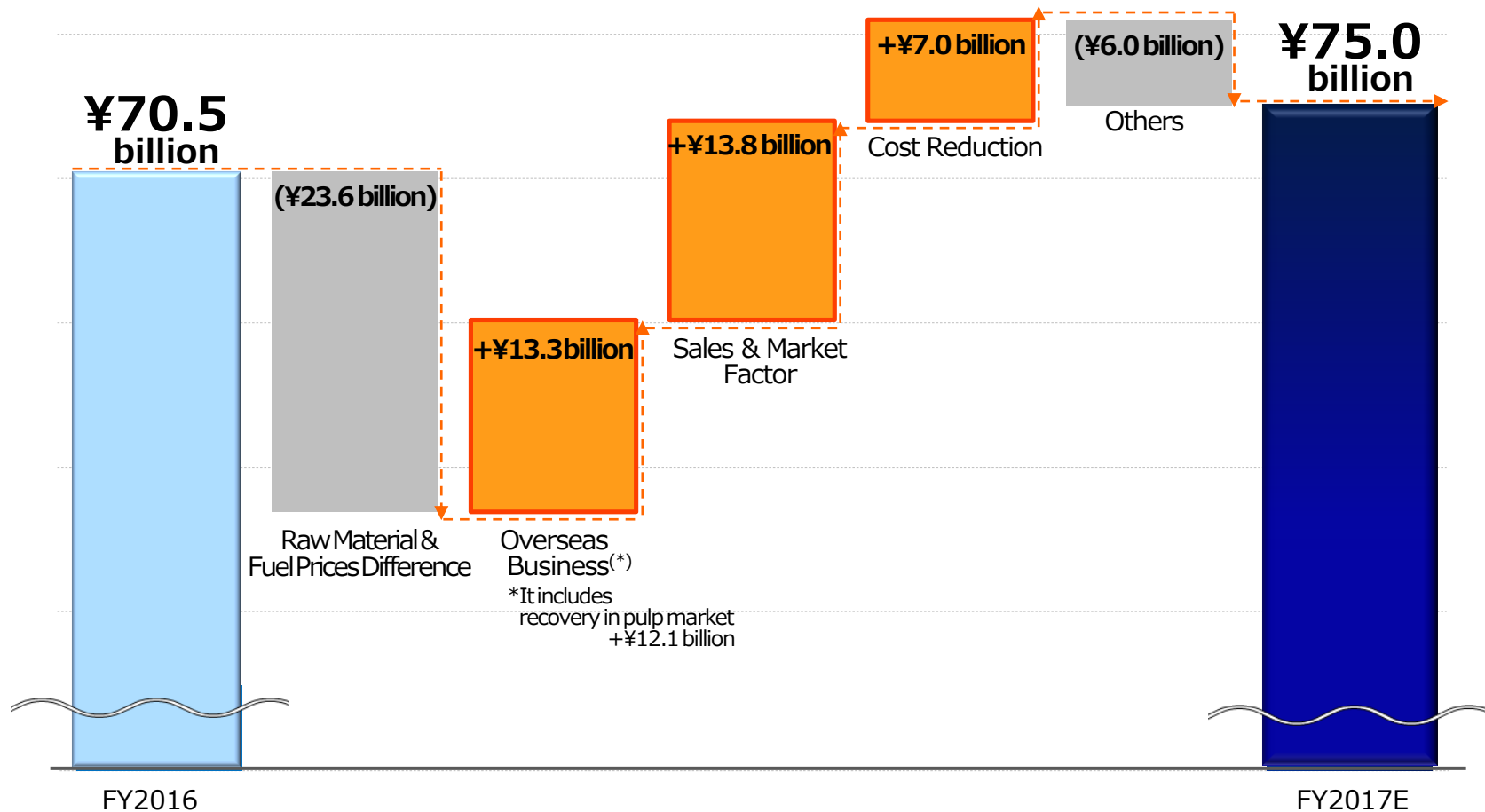
◆Effects of Fluctuation on operating income (per annum)

- Exchange rate Japanese Yen : approx. ¥0.37 billion with a fluctuation of US\$ by 1% (strong US\$ -)
- Brazilian Real : approx. ¥0.35 billion with a fluctuation of US\$ by 1% (strong US\$ +)
- New Zealand Dollar : approx. ¥0.75 billion with a fluctuation of US\$ by 1% (strong US\$ +)
- Price of recovered paper : approx. ±¥4.00 billion with a fluctuation of ¥1/kg
- Price of Dubai crude oil : approx. ±¥0.26 billion with a fluctuation of US\$1/bbl
(heavy oil, bunker, naphtha and others)
- Price of pulp : approx. ±¥2.40 billion with a fluctuation of US\$10/t (high price +)

2. Breakdown of Increase/Decrease of Operating Income [FY2016 to FY2017 Forecast] (consolidated)



Increase in operating income +¥4.5 billion
mainly due to recovery in pulp market, price policies and
cost reductions, despite rising raw material & fuel prices.



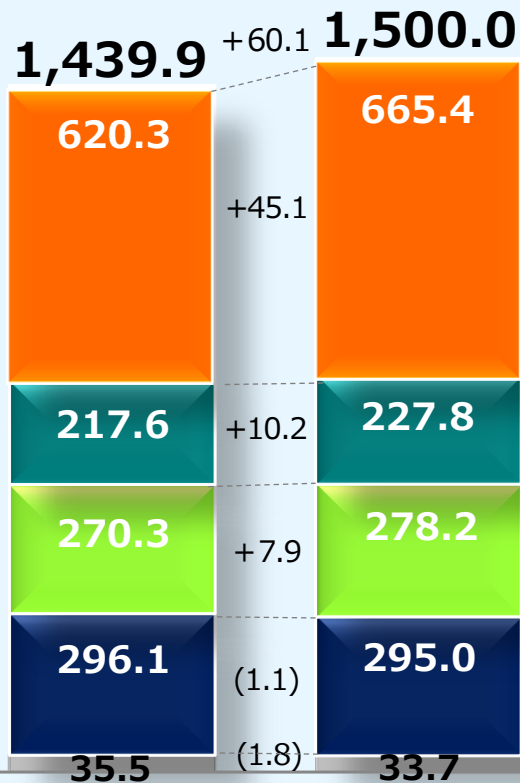
3. Sales and Operating Income by Segment

[FY2017 Forecast] (consolidated)



OJI HOLDINGS

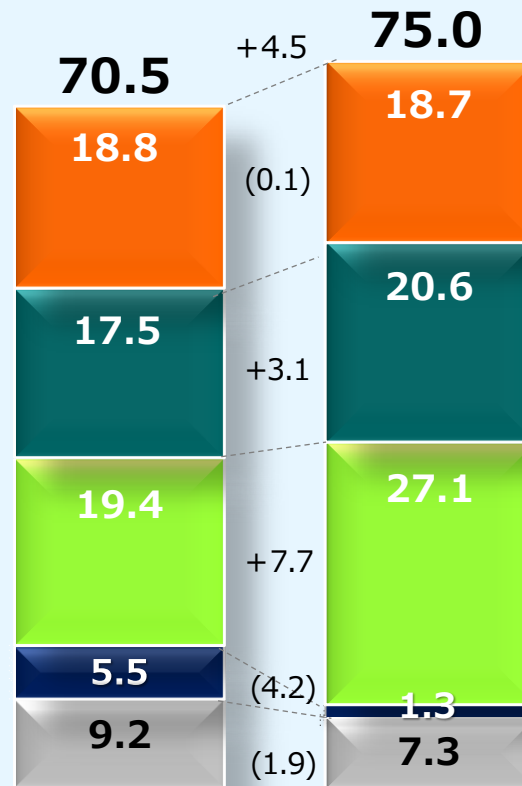
Sales



FY2016

FY2017E

Operating Income



FY2016

FY2017E

(¥ billion)

- : Household & Industrial Materials
- : Functional Materials
- : Forest Resources & Environment Marketing
- : Printing & Communications Media
- : Others + Adjustment

4. Analysis of Increase/Decrease of Income by Segment

(1) Household and Industrial Materials



OJI HOLDINGS

FY2016			FY2017			Increase (Decrease)
Sales	Operating Income		Sales	Operating Income		Operating Income
¥620.3 billion	¥18.8 billion	Domestic ¥15.1 billion Overseas ¥3.7 billion	¥665.4 billion	¥18.7 billion	Domestic ¥12.3 billion Overseas ¥6.4 billion	(¥0.1 billion) Domestic (¥2.8 billion) Overseas +¥2.7 billion

«FY2017: Factors behind the income increase / decrease»

Domestic (¥2.8 billion)

◆ Household & Consumer Products Business (¥0.5 billion)

Raw material & fuel prices difference (¥1.2 billion)
Increased sales volume of disposable diaper +¥0.9 billion etc.

Additional Establishment of Disposable Diaper Machines

For babies [pants-type]

Nov. 2016 Start of commercial operation

Total production capability after the start of operation:
660 mil. diapers/yr (4 machines)

For babies [tape-type]

Sept. 2017 Start of commercial operation (scheduled)

Total production capability after the start of operation:
265 mil. diapers/yr (2 machines)

Development of New High Quality Products

Feb. 2017 Launch of the new brand, "Whito"



©T.YANASE / FRÖEBELKAN · TMS · NTV

◆ Industrial Materials Business (¥2.3 billion)

Raw material & fuel prices difference (¥14.3 billion)
Sales & Market Factor +¥11.2 billion etc.

Increasing Profitability

O&C Ivory Board

Aug. 2017 Start of commercial operation (scheduled)

→ Increase sales of high-grade paperboard possessing superior cost competitiveness



Overseas +¥2.7 billion

◆ Household & Consumer Products (Disposable Diaper) Business +¥0.3 billion

◆ Industrial Materials Business +¥2.4 billion

Strong performance of corrugated container business in SE Asia

Expansion of Overseas Packaging Business

Oji Fibre Solutions: Paper Bag Plant (Auckland/New Zealand)

Business Lineup

Production of paper bag (for industry/hygiene uses)

Schedule

Oct. 2016 Start of commercial operation of new paper bag machine for milk powder

Oji Fibre Solutions: New Corrugated Container Plant (Queensland/Australia)

Business Lineup

Production/sales of corrugated containers

Schedule

Oct. 2017 Start of commercial operation (scheduled)



New paper bag machine for milk powder



Appearance of the new plant (image)

4. Analysis of Increase/Decrease of Income by Segment

(2) Functional Materials



OJI HOLDINGS

FY2016		FY2017		Increase (Decrease)
Sales	Operating Income	Sales	Operating Income	Operating Income
¥217.6 billion	¥17.5 billion	¥227.8 billion	¥20.6 billion	+¥3.1 billion
	Domestic ¥12.8 billion Overseas ¥4.7 billion		Domestic ¥13.5 billion Overseas ¥7.1 billion	Domestic +¥0.7 billion Overseas +¥2.4 billion

«FY2017: Factors behind the income increase / decrease»

Domestic +¥0.7 billion

- ◆ **Sales & Market Factor** +¥2.6 billion
- ◆ **Cost Reduction** +¥1.9 billion
- ◆ **Raw Material & Fuel Prices Difference** (¥2.7 billion) etc.

Strengthening of R&D-oriented Business

→ Development/sales expansion of high value-added functional materials



Advanced Film Research Center (Shiga)

Innovative and highly functional films are developed at the plant's in-house research center.

<Introduction of a Film Product>

- Alphan electrical film
- One of the world's thinnest capacitor film for hybrid vehicles



Overseas +¥2.4 billion

◆ Increased Sale Volume of Thermal Paper

+¥1.8 billion etc.

Capacity Enhancement at Oji Papeis Espéciais (OPE)

- (1) 2014: Additional establishment of dryers, etc.
... 20% increase of production capability
- (2) 2017: Installation of multi-layer curtain coater (scheduled)
... 10% increase of production capability

→ In consideration of further investment in order not to miss the opportunity to take in the strong demand for thermal paper in Brazil



OPE PC3

Integration of Functional Material Manufacturing and Expansion of Business Fields in Southeast Asia

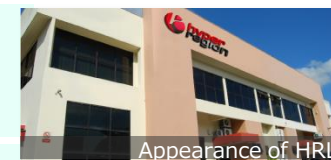
Hyper-Region Labels (HRL) (Malaysia)

Business Lineup

Printing/converting of labels, etc.

Schedule

May 2016 Share acquisition (60% of issued stocks)



Appearance of HRL

Tele-Paper (TP) (Malaysia)

Business Lineup

Printing/converting of thermal/carbonless paper, etc.

Schedule

2017 Share acquisition (scheduled)

Oji Myanmar Packaging (OMPC) (Myanmar)

Business Lineup

Production/sales of flexible packaging products, etc.

Schedule

Aug. 2017 Start of commercial operation (scheduled)



Appearance of OMPC

4. Analysis of Increase/Decrease of Income by Segment

(3) Forest Resources and Environment Marketing



OJI HOLDINGS

FY 2016		FY 2017		Increase (Decrease)
Sales	Operating Income	Sales	Operating Income	Operating Income
¥270.3 billion	¥19.4 billion	¥278.2 billion	¥27.1 billion	+¥7.7billion
	Domestic ¥8.7 billion Overseas ¥10.7 billion		Domestic ¥8.1 billion Overseas ¥19.0 billion	Domestic (¥0.6 billion) Overseas +¥8.3billion

«FY2017: Factors behind the income increase / decrease»

Overseas +¥8.3 billion

◆ Market Condition of Pulp

Jiangsu Oji Paper	+¥6.2 billion
Cenibra	+¥3.9 billion
Pan Pac	+¥1.9 billion
etc.	

+¥12.1 billion

◆ Cost reduction

+¥3.2 billion

◆ Sales Volume Difference

+¥1.9 billion

◆ Exchange Rate Conversion of BRL

(¥4.7 billion)

◆ Raw Material & Fuel Prices Difference

(¥1.8 billion)

List Price for China Market

Recovery trend after hitting the bottom in Sept. 2016

2016
(Average of Jan.-Dec.)Reference
(Apr. 2017)

LBKP (Hardwood pulp)

520
US\$/t650
US\$/t

NBKP (Softwood pulp)

590
US\$/t660
US\$/t

Tasman Mill, Oji Fibre Solutions



Jiangsu Oji Paper's pulp machine

4. Analysis of Increase/Decrease of Income by Segment

(4) Printing and Communications Media



OJI HOLDINGS

FY2016			FY2017			Increase (Decrease)
Sales	Operating Income		Sales	Operating Income		Operating Income
¥296.1 billion	¥5.5 billion	Domestic ¥4.5 billion Overseas ¥1.0 billion	¥295.0 billion	¥1.3 billion	Domestic ¥0.5 billion Overseas ¥0.8 billion	(¥4.2 billion)
						Domestic (¥4.0 billion) Overseas (¥0.2 billion)

«FY2017: Factors behind the income increase / decrease»

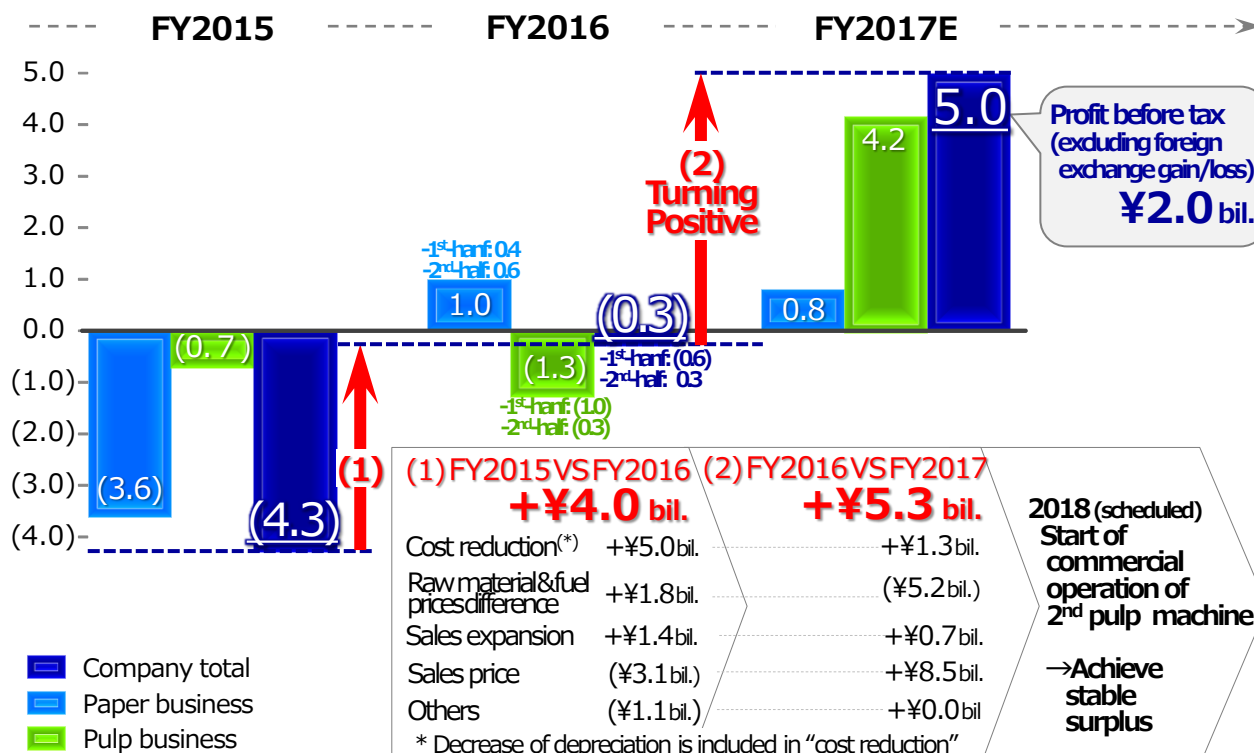
Domestic (¥4.0 billion)

- ◆ Raw Material & Fuel Prices Difference (¥5.4bil.)
- ◆ Sales & Market Factor (¥1.0bil.)
- ◆ Cost Reduction +¥3.0bil.
etc.

Overseas (¥0.2 billion)

- ◆ Raw Material & Fuel Prices Difference (¥3.7bil.)
- ◆ Sales & Market Factor +¥2.6bil.
- ◆ Cost Reduction +¥0.9bil.

Jiangsu Oji Paper Nantong Mill (China): Operating Income



5. Influences of Changes in External Environment

(¥billion/year)

			Household & Industrial Materials	Functional Materials	Forest Resources & Environment Marketing	Printing & Communi- cations Media	Total
Impact on operating income from:							
Changes in exchange rates		Assumed exchange rates for FY2017					
US\$-based transactions (US\$ stronger by 10%)	Japanese Yen (JPY)	115 JPY/USD	↓	→	→	↓	(4.6)
	Brazilian Real (BRL)	3.1 BRL/USD	→	→	↑	→	+3.5
	New Zealand Dollar (NZD)	1.41 NZD/USD	↑	→	↑	→	+7.5
Conversion of income in foreign currency to ¥ (¥ weaker by 10%)	US Dollar (USD)	115 JPY/USD	↑	↑	↑	→	+0.9
	Brazilian Real (BRL)	37.1 JPY/BRL	→	↑	→	→	+0.3
	New Zealand Dollar (NZD)	81.7 JPY/NZD	↑	→	↑	→	+0.6
Changes in pulp prices (US\$10/t stronger)			↓	↓	↑	↓	+2.4

 + : Improve
 () : Worsen

**Cope with changes in exchange rates and pulp prices
by leveraging on the Group's globalized and diversified collective strengths**

III. Group Management Targets

1. Business Plans

(1) Management Philosophy/Management Strategies



Management Philosophy

~Desired Future Image of Oji Group~

Creation of
Innovative Values

Contribution to
Future and the World

Harmony with
Nature and Society

「Beyond
the Boundaries」

Management Strategies

~Group Fundamental Policies and Numerical Management Targets~

~FY2016-18 Group Fundamental Policies~

Expansion of Overseas Businesses

**Concentration /
Advancement of Domestic Businesses**

Enhancement of Financial Foundation

~Numerical Management Targets FY2018~

<Operating Income> (consolidated)	¥100.0 billion
<Overseas Sales Ratio>	35% (Future target 50%)
<Interest-bearing Debt>	¥700.0 billion
<ROE>	8 %

1. Business Plans

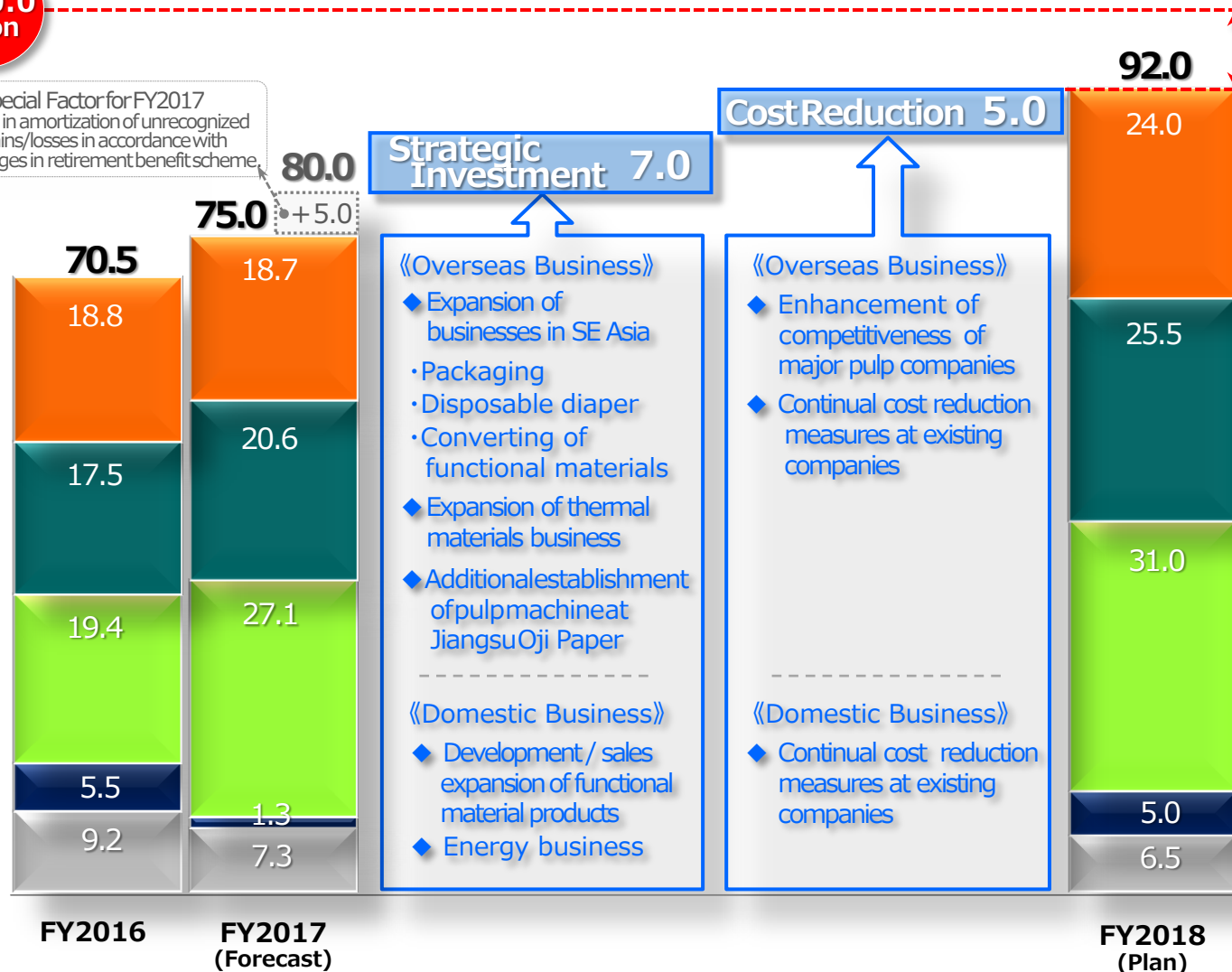
(2) Progress of FY2018 Mid-term Management Plan



OJI HOLDINGS

¥100.0 billion

Special Factor for FY2017
Increase in amortization of unrecognized actual gains/losses in accordance with the changes in retirement benefit scheme.



FY2018(plan) does not include:

- ◆ Price correction effects
- ◆ Strategic Investment projects (in consideration)
 - Corrugated container: Expansion of business in India/SE Asia
 - Disposable diaper:
 - Local production in China
 - Acceleration of business expansion in SE Asia
 - Thermal paper: Capacity enhancement at KANZAN (Germany)
 - Lumber: Capacity enhancement at Pan Pac (NZ), etc.
- <FY2019~> -----
- Containerboard: Capacity enhancement at GSPP (Malaysia)
- Household paper Apr.2019 (scheduled) Start of commercial operation of MPM Oji Home Products
- Energy Jun.2019 (scheduled) Start of commercial operation of MPM Oji Eco-Energy

IV. Topics

Continue Business Enhancement in SE Asia and Expansion of Export from Japan



OAH's production machine (Malaysia)



Sales in Southeast Asia (1) (Malaysia)



Sales in Southeast Asia (2) (Cambodia)

Export to / Production & Sales in China

Export from Japan to China

Seeing a strong preference for "made-in-Japan" products in China, expand sales nationwide by increasing the number of distributors.

Production & Sales in China

Consider capital investment at Nantong Mill after increasing the market shares through expansion of export.

Strategic Business Enhancement in Southeast Asia

«Malaysia»

• People & Grit

Jan. 2015 Share acquisition

• Oji Asia Household Product [OAH]

Apr. 2016 Start of commercial operation of **baby [pants-type] disposable diaper machine**

Domestic (Malaysia)

Expand sales by further increasing the number of distribution stores and brand awareness, trial promotion, and by developing product advantages.

Export to Surrounding Countries

Sales already started in Vietnam, Cambodia, Myanmar and the UAE. New entries into India, Singapore, Brunei, etc. are planned.

Apr. 2017 Start of sales of **baby [tape-type] disposable diaper**

Further brand presentation by expanding the target to newborns

Consider entries into markets of **adult disposable diapers or napkins** in the future.

«Indonesia»

• Oji Indo JV Companies

Nov. 2016 Start of sales in Indonesia



JV business with PT Indofood CBP Sukses Makmur Tbk (ICBP), the leading food manufacturer. Sales starts to grow with the sales strategy that leverages the extensive distribution channels.



Sales promotion event for pregnant women (Shanghai/China)

People & Grit

Oji Asia Household Product

Oji Indofood JV Companies

2. Research & Development

(1) Cellulose Nano-fiber (CNF)



« **NEW MATERIAL** : Cellulose Nano-fiber »

Oji's Unique Fabrication Technology

The unique technology "phosphate esterification" has achieved the **reduction of energy required to refine pulp**.

Development of the **World's First 3 Forms of CNF**

(1) Continuous transparent sheet	→ 2nd-half of 2017 (scheduled)	Start of operation of demonstration facilities	[Production capability: 250,000m²/yr] (planned expansion to 1,000,000m ² in the future)
(2) Slurry	→ Dec. 2016		
(3) Wet powder			

(1) Continuous transparent sheet
(the world's first & Oji's unique technology)



Conventional transparent sheet "AUROVEIL"



Newly developed transparent sheet "AUROVEIL3D"

(2) Slurry



(3) Wet powder



Product Development

May. 2017 Start of sample offering of "AUROVEIL3D" (CNF transparent sheet)
In addition to high transparency, flexibility as well as low thermal expansion, "AUROVEIL 3D" has added a new feature of unrestricted moldability, making it a groundbreaking product.

➡ Expect development into new and wider range of business fields and applications with the start of sample offering

May. 2017 (scheduled) Start of offering of "AUROVISCO" (CNF thickener)

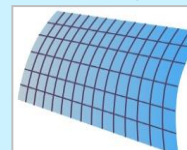
Expected Applications



Thickener for high-end cosmetics, etc.



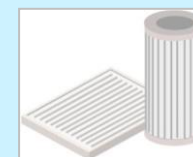
Reinforcing material for plastic



Flexible organic EL/solar electric power generation panels



Strong and flexible display panels



Highly functional minute nano-filters

etc.

NEW TECHNOLOGY: Cultivation of Medical Plant "Licorice(*)"»

*Licorice: Medical plant used as a raw material for a wide range of products such as cosmetics, food and toiletries, in addition to 70% of oriental medicines. Though we rely on imports from China, exports of Licorice are regulated in China because of the concern for resource exhaustion.

Sept.2013

Establishment of Medical Plant Section

Nov.2016

Development of short-term cultivation technology of licorice in Japan
We succeeded in shortening the time taken for cultivation of licorice, which includes more than 2% of glycyrrhizin in conformity with the Japanese Pharmacopoeia 17th edition, from 5~6 years to 2 years.

Apr.2017

(press release)

Practical use expected as a raw material for cosmetics of ALBION Co., Ltd.



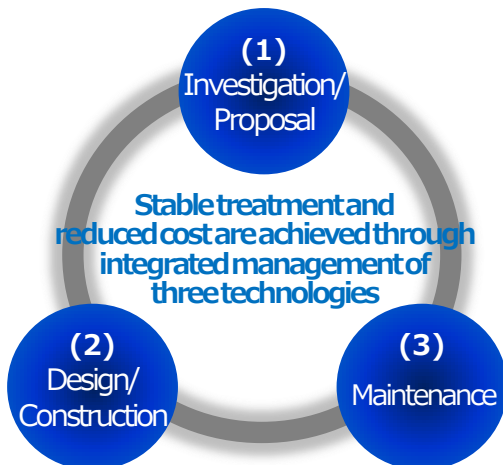
Licorice farm



Root of licorice

EXISTING TECHNOLOGY: Water Treatment Business within/outside Japan »

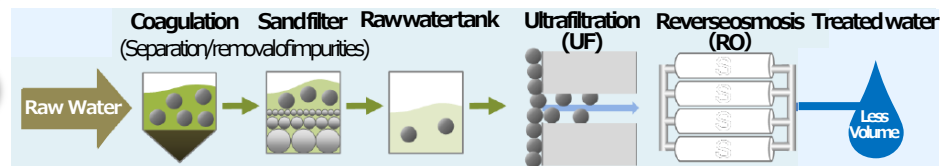
We offer water treatment system for any kinds of water environment, including sewage, factory sewage, industrial wastewater, animal husbandry wastewater, industrial water, etc.; based on technologies of water production and water treatment that are accumulated over many years of pulp & paper production.



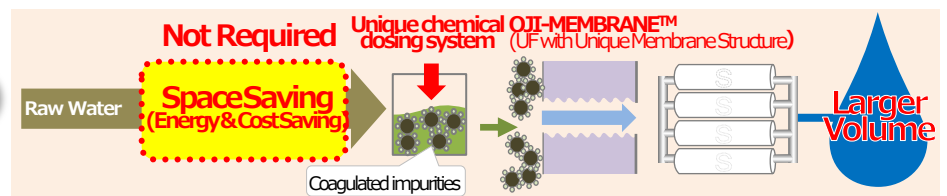
Example

Water Treatment System in Sinsakhon Industrial Estate/Thailand

Conventional Technology

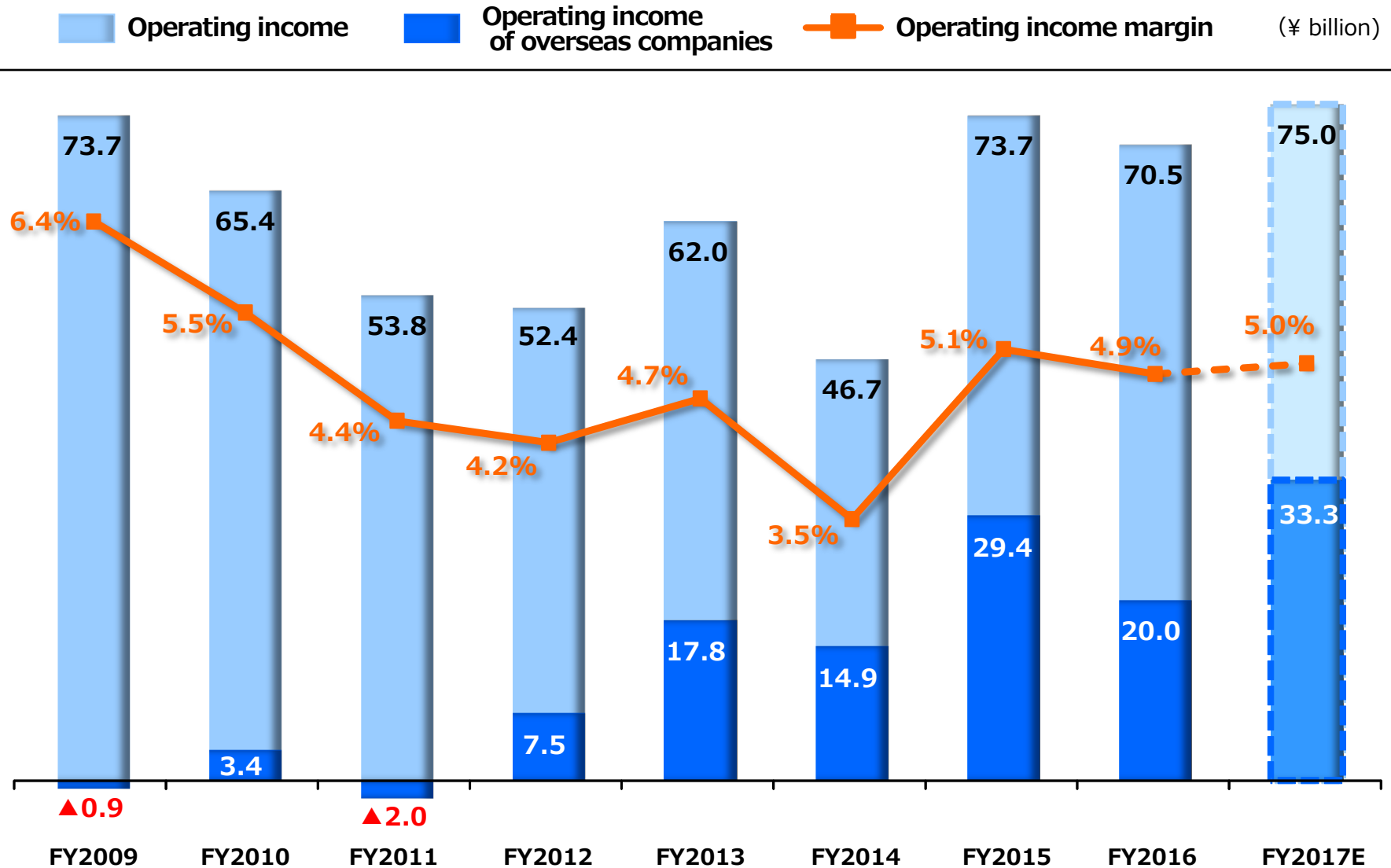


Oji's Technology

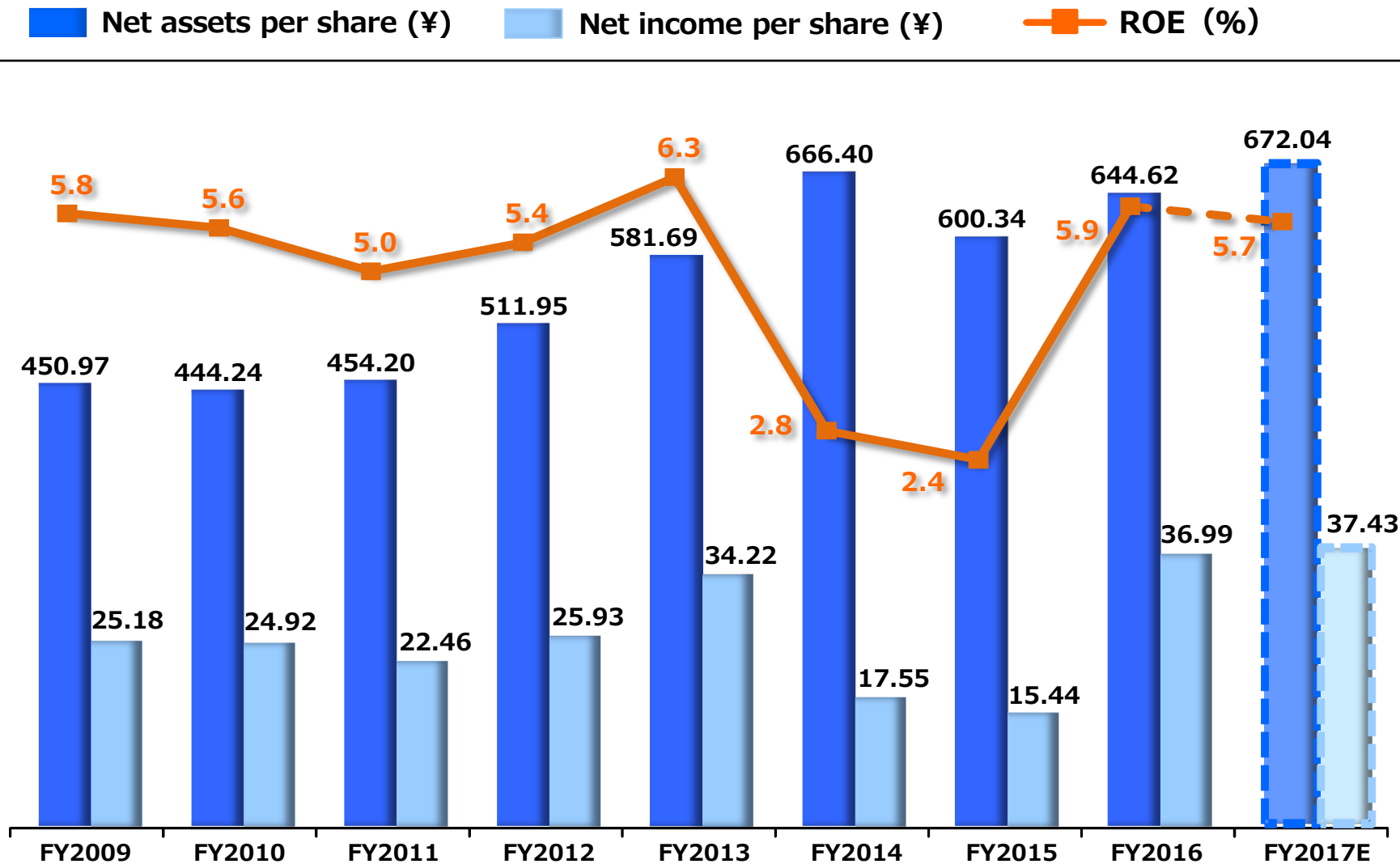


《Reference Materials》

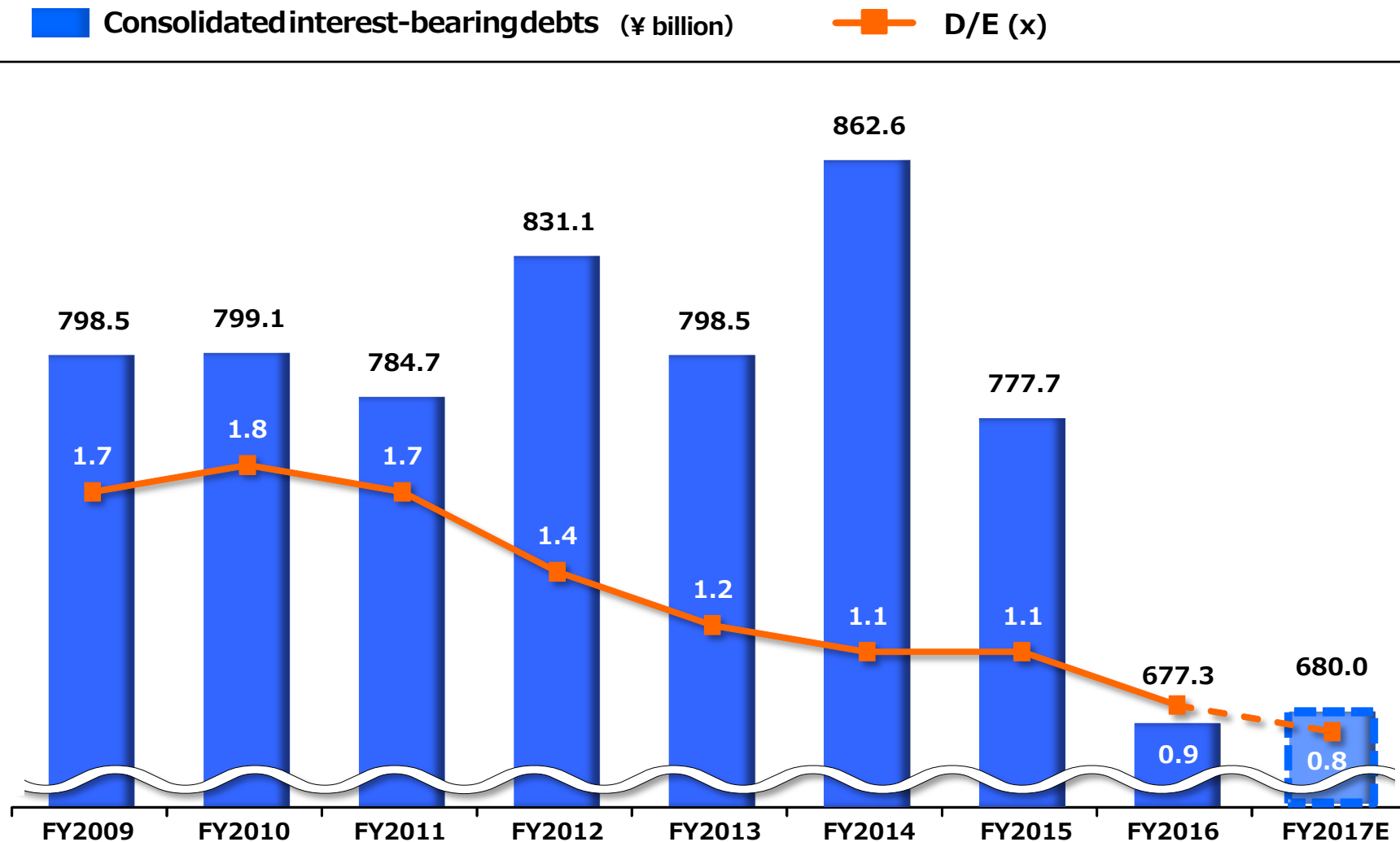
Trends of Operating Income (consolidated)



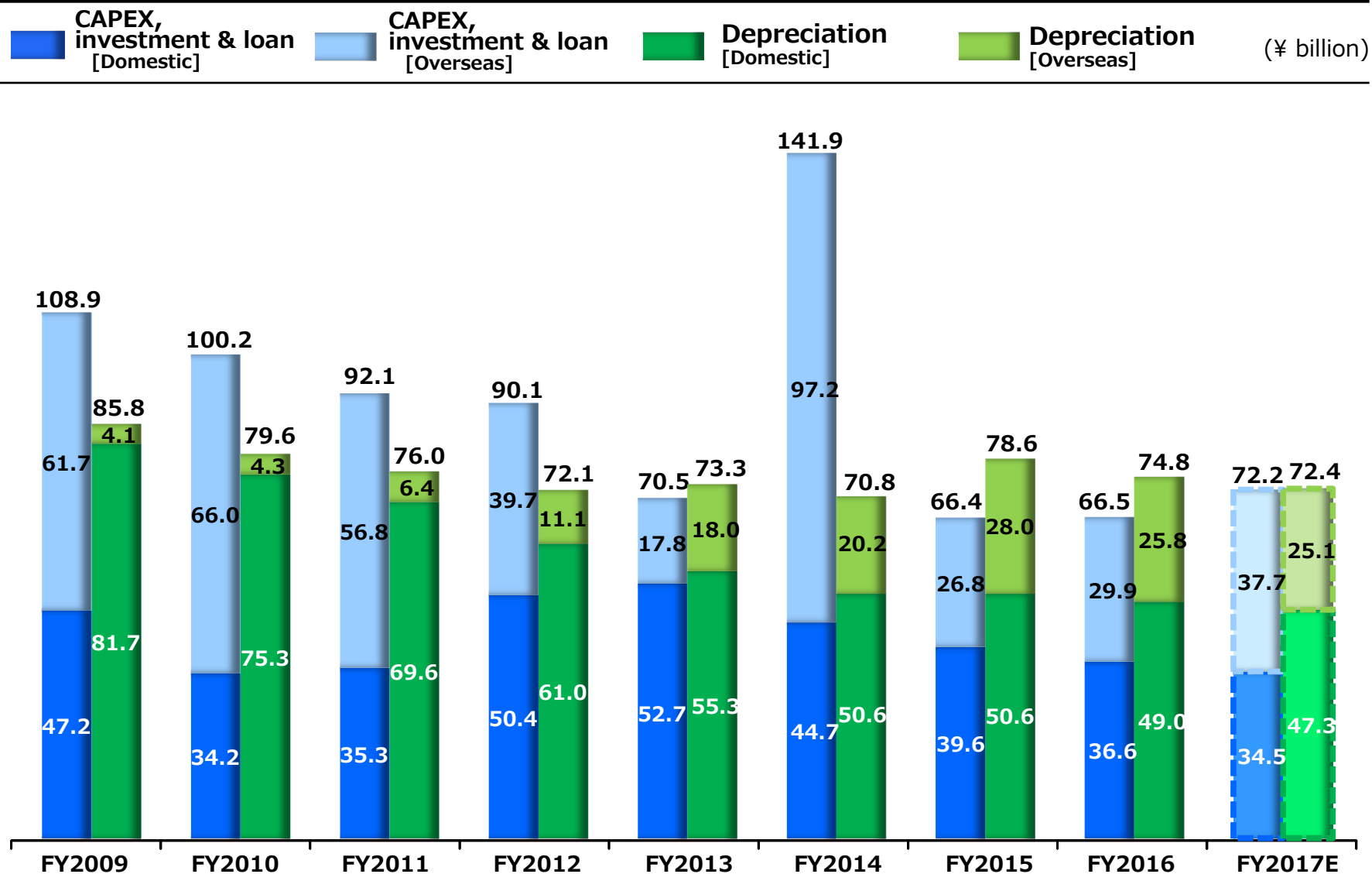
Trends of Return on Equity (ROE)



Trends of Interest-bearing Debt (consolidated)



Trends of CAPEX / Depreciation (consolidated)



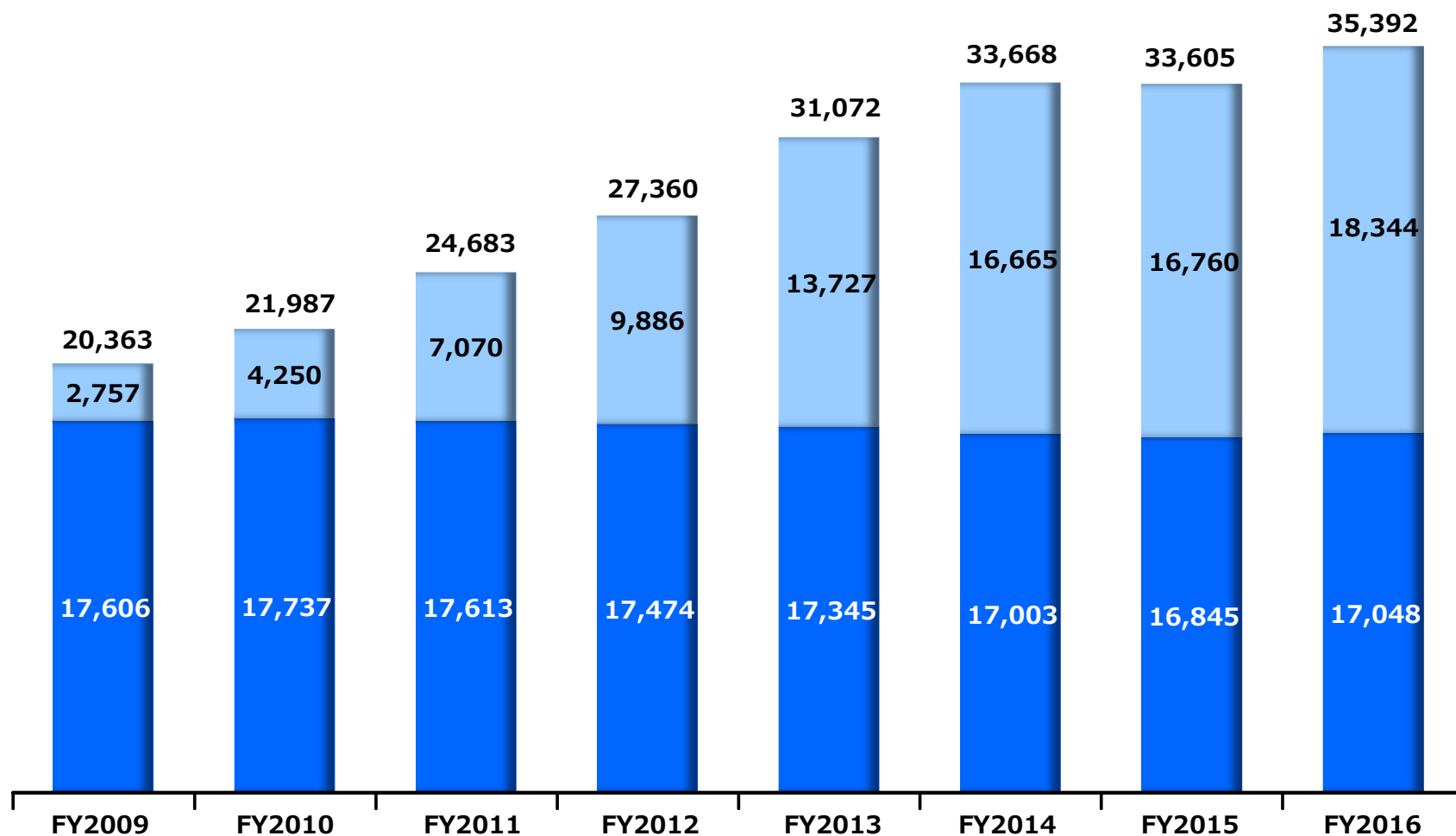
Trends of Employees (consolidated)

 **Employees [Domestic] (consolidated)**

 **Employees [Overseas] (consolidated)**

(person)

*The figures do not include number of temporary employees



	Domestic Shipments		Custom Cleared Imports*1		Total	
	Year-on-Year		Year-on-Year		Year-on-Year	
Containerboard	9,015	101.7%	40	86.8%	9,056	101.7%
Boxboard	1,556	101.0%	248	97.6%	1,804	100.5%
Other Paperboard	634	99.8%	26	95.2%	661	99.6%
Paperboard Total	11,206	101.5%	315	95.8%	11,521	101.4%
Sanitary Paper	1,806	101.4%	195	108.0%*2	2,000	102.0%
Packaging Paper	707	98.5%	7	97.5%	715	98.5%
Newsprint	2,882	96.6%	13	25.2%	2,894	95.4%
Printing/Communications Paper	7,604	99.7%	999	89.6%	8,603	98.4%
Miscellaneous Paper	719	98.5%	19	104.9%	739	98.6%
Paper Total	13,717	99.1%	1,233	89.9%	14,951	98.3%

Paperboard and Paper Total	24,924	100.2%	1,548	91.0%	26,471	99.6%
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	(million m ³)				
Corrugated Containers *3	14,036	101.5%			14,036 101.5%

Source: Japan Paper Association - Statistics on Paper and Paperboard; Trade Statistics of Ministry of Finance, Japan; Japan Corrugated Case Association - Production Volume of Corrugated Case

*1: Statistics for customs cleared imports of paper: April 2016 - March 2017

*2: The figure includes secondary products (processed goods)

*3: The figure represents the production volume of corrugated board



Beyond the Boundaries

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