



Oji Holdings Corporation

Summary of Financial and Business Results

November 18, 2016



The Oji Group is taking part in conservation efforts for the endangered Fairy Pitta living in the Group' s forest in Japan (©Ecosystem Trust Society)

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I. 1st-half of FY2016 Result Overview

I. 1st-half of FY2016 Result Overview

1. Financial Highlights of the 1st-half of FY2016 (consolidated)

(¥ billion)

		1st-half of FY2015	1st-half of FY2016	Increase (Decrease)
Net Sales		719.2	692.9	(26.3)
Operating Inco	me	28.5	33.7	5.2
Ordinary Incon	ne	33.8	12.8	(21.0)
Profit Attributable to Owners	s of Parent	17.3	8.3	(9.0)
Depreciation		39.5	35.9	(3.6)
Overseas Sales Ratio		29.4%	26.4%	(3.0%)
OperatingIncomeofOverse	asCompanies	12.6	12.0	(0.6)
Average Exchange Ra	te (¥/US\$)	121.8	105.3	(16.5)
Number of Consolidated Companies	Domestic Overseas Total	87 88 175	95 103 198	+8 +15 +23

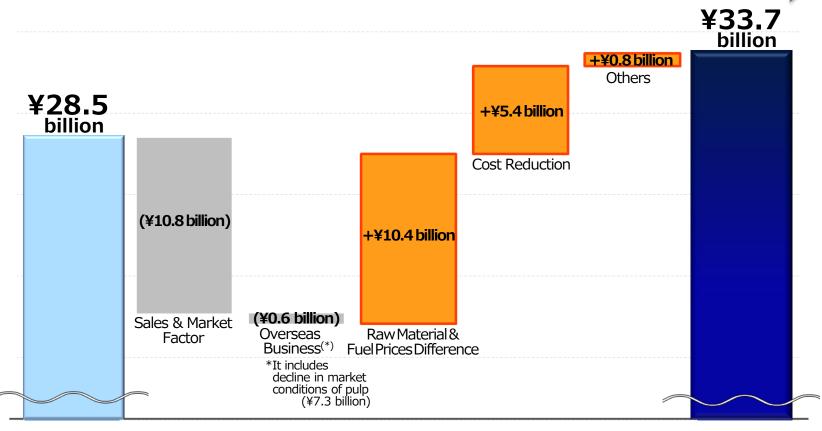
Domestic +8 : +7 [Paperbag manufacturing companies], +1 [Energy business company]

Overseas +15 : +5 [Paperbag manufacturing companies], +3 [Functional materials business companies in China], +5 [Lumber processing companies], +2 [Thermal materials business companies in Malaysia]

Equity Method Affiliates ± 0 (overseas +1, (1))

I. 1st-half of FY2016 Result Overview Breakdown of Increase/Decrease of Operating Income [1st-half of FY2015 to 1st-half of FY2016] (consolidated) Increase of ¥5.2 billion generated by: -Decline in raw material & fuel prices caused by yen appreciation,etc.

-Continual cost reduction measures



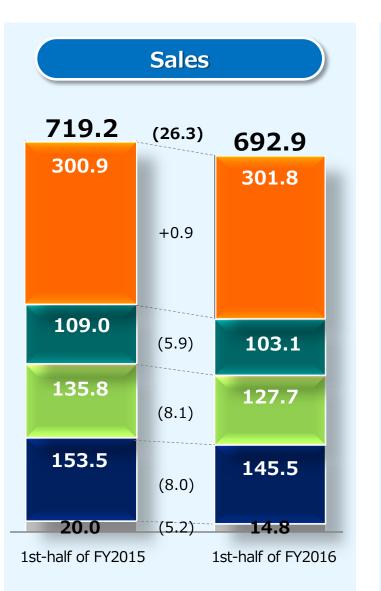


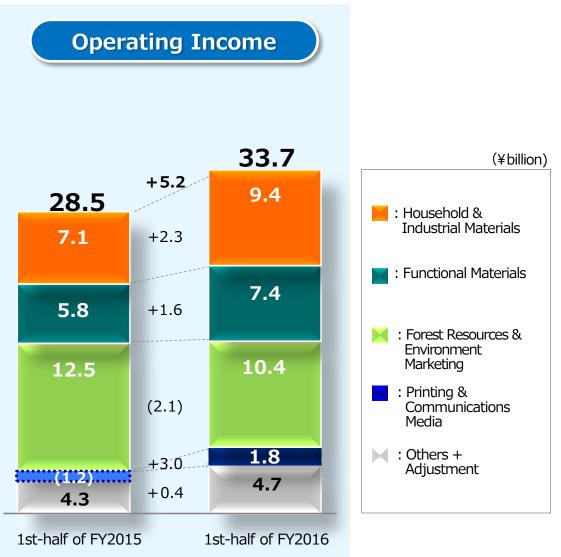


I. 1st-half of FY2016 Result Overview

3. Sales and Operating Income by Segment [1st-half of FY2016]



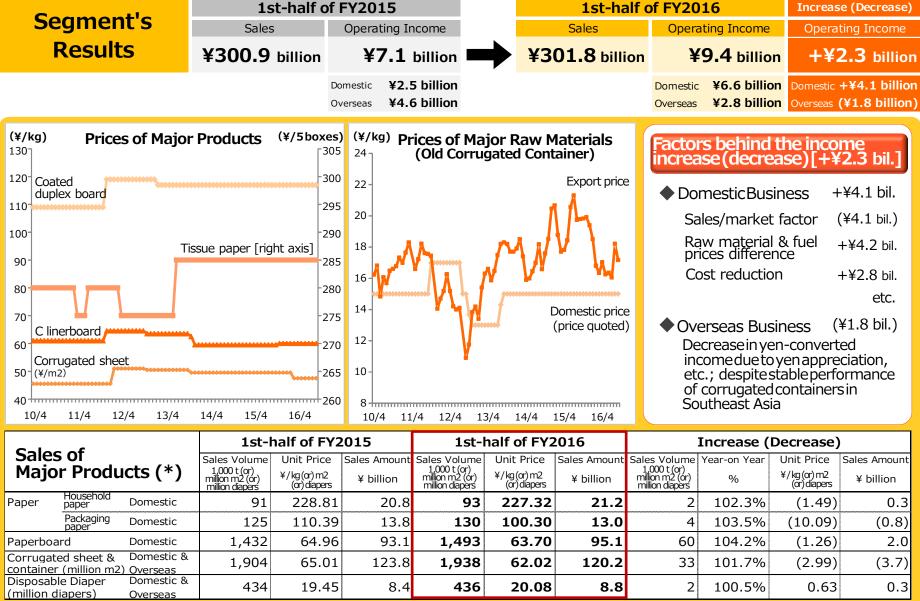




I. 1st-half of FY2016 Result Overview 4. Analysis of Increase/Decrease of Income by Segment



(1) Household and Industrial Materials



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I. 1st-half of FY2016 Result Overview 4. Analysis of Increase/Decrease of Income by Segment (2) Functional Materials



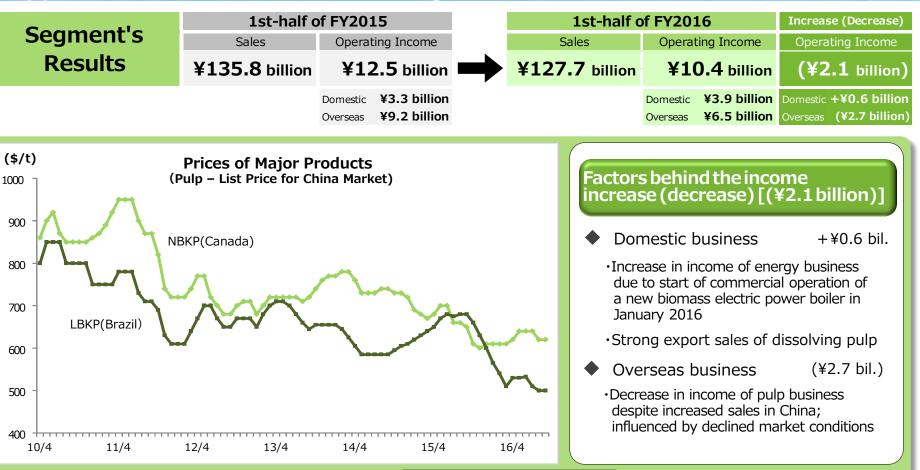
Commontio	1st-half of	FY2015		1st-half	of FY2016	Increase (Decrease)
Segment's	Sales	Operating Income		Sales	Operating Income	Operating Income
Results	¥109.0 billion	¥5.8 billion		¥103.1 billion	¥7.4 billion	+¥1.6 billion
		Domestic¥3.9 billionOverseas¥1.9 billion				Domestic +¥1.2 billion Overseas +¥0.4 billion
140 Prices of Major Raw	v Materials and Fuels	Factors beh	ind th	e income incre	ase (decrease)	[+¥1.6 billion]
120 - 110 - 100 -	m	Domestic B	Busines	s +¥1.2 bil.	Overseas Busine	ess +¥0.4 bil.
90 - 80 -	3A 1	Sales/mar	ket fact	or (¥2.2 bil.)	Sales of thermal -increased in So	
70 - 60 -	my /	Raw mate prices diffe		uel +¥1.9 bil.	and Asia -decreased in No	
50 40 -	the second	Cost reduc	ction	+¥1.2 bil.		
30 Coal [Australia/N	Newcastle](\$/t)			etc.		
²⁰ - Crude oil [Dubai]						
¹⁰ - Naphtha [Japan]	(¥1,000/kl)					
-	13/4 14/4 15/4 16/4					

Sales of Major Products (*)		1st-half of FY2015			1st-half of 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) million m2	¥/kg (or) m2	¥ billion	1,000t (or) million m2	¥/kg (or) m2	¥ billion	1,000t (or) million m2	%	¥/kg (or) m2	¥ billion
Thermal paper (million m2)	Domestic & Overseas	1,610	20.82	33.5	1,587	18.64	29.6	(23)	98.6%	(2.18)	(3.9)
Specialty paper	Domestic	86	252.24	21.6	93	234.47	21.7	7	108.5%	(17.78)	0.2

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

I. 1st-half of FY2016 Result Overview 4. Analysis of Increase/Decrease of Income by Segment

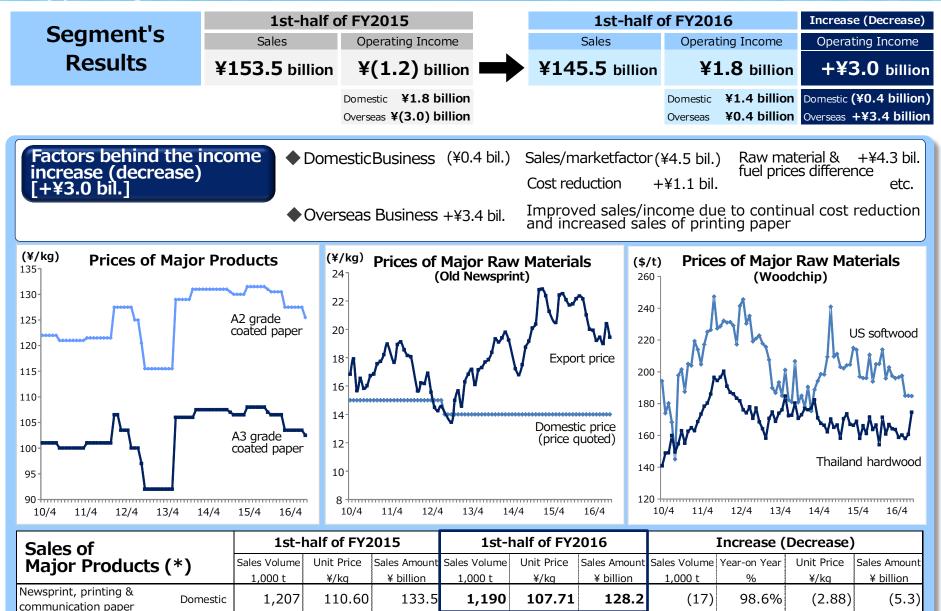
(3) Forest Resources and Environment Marketing



		1st-half of FY2015			1st-half of FY2016			Increase (Decrease)			
		Sales Volume 1,000t (or) GWh			Sales Volume 1,000t (or) GWh			Sales Volume 1,000t (or) GWh		Unit Price ¥/kg (or) ¥/kWh	Sales Amount ¥ billion
Market pulp	Domestic & Overseas	1,092	67.62	73.8	1,148	53.53	61.5	56	105.2%	(14.09)	(12.4)
(Dissolving pulp)	Domestic	34	100.00	3.4	43	90.21	3.9	9	126.7%	(9.79)	0.5
Electric power	Domestic	410	19.24	7.9	514	20.39	10.5	104	125.3%	1.15	2.6

I. 1st-half of FY2016 Result Overview 4. Analysis of Increase/Decrease of Income by Segment

(4) Printing and Communications Media



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



II. FY2016 Financial Forecast

1. Financial Forecast for FY2016



(¥ billion)

	FY2015	FY2016E	Increase (Decrease)
Net Sales	1,433.6	1,410.0	(23.6)
Operating Income	73.7	72.0	(1.7)
Ordinary Income	62.4	50.0	(12.4)
Profit Attributable to Owners of Parent	15.3	33.0	17.7
Depreciation	78.6	72.9	(5.7)
Overseas Sales Ratio	27.8%	26.3%	(1.5%)
OperatingIncomeofOverseasCompanies	29.4	19.3	(10.1)
Average Exchange Rate (¥/US\$)	120.1	105.2	(14.9)

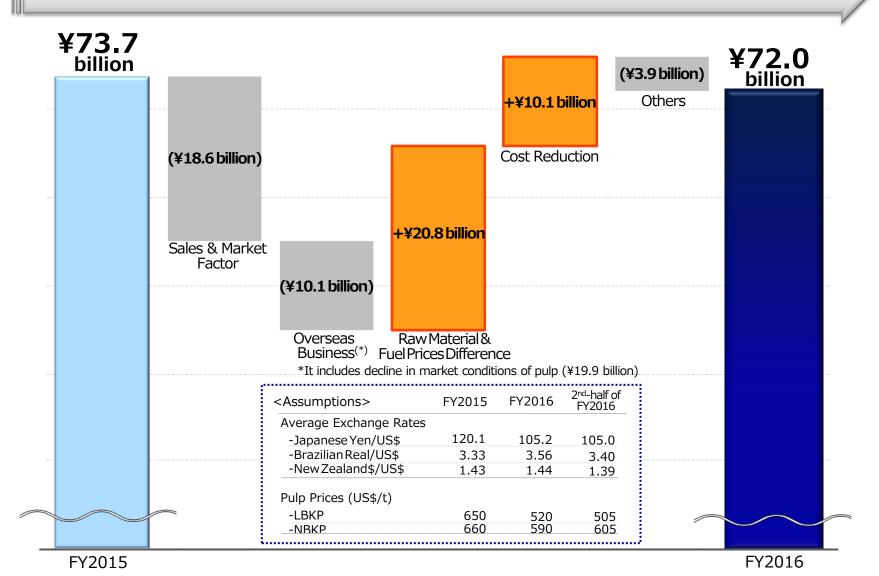
*The above forecasts are based on the forecasts of economic conditions made at the time of publication. As such, actual results may differ from these forecasts due to various unforeseen circumstances.

Assumptions for FY2016 Finan	cial Forecast	
 Raw Material & Fuel Prices Woodchip : based on current contract Recovered paper : price to remain static at current level		 : approx. ¥0.32 billion with a fluctuation of US\$ by 1% (strong US\$: approx. ¥0.29 billion with a fluctuation of US\$ by 1% (strong US\$: approx. ¥0.56 billion with a fluctuation of US\$ by 1% (strong US\$: approx. ±¥4.06 billion with a fluctuation of ¥1/kg : approx. ±¥0.26 billion with a fluctuation of US\$1/bbl (heavy oil, bunker, naphtha and others)
	-Price of pulp	: approx. \pm ¥2.2 billion with a fluctuation of US\$10/t (high price +)

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

OJI HOLDINGS

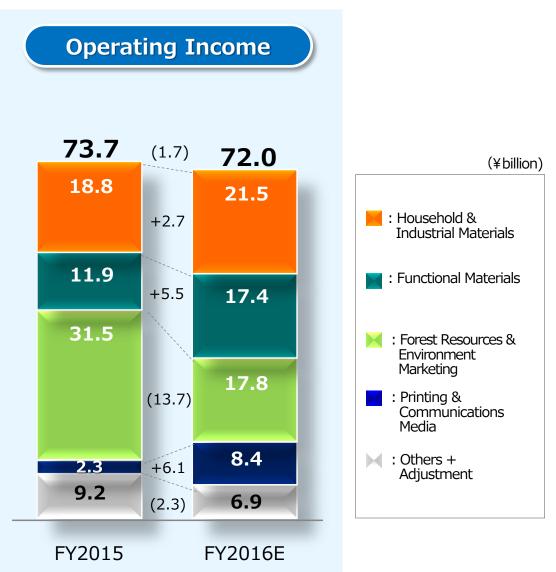
Securing operating income at the same level as FY2015



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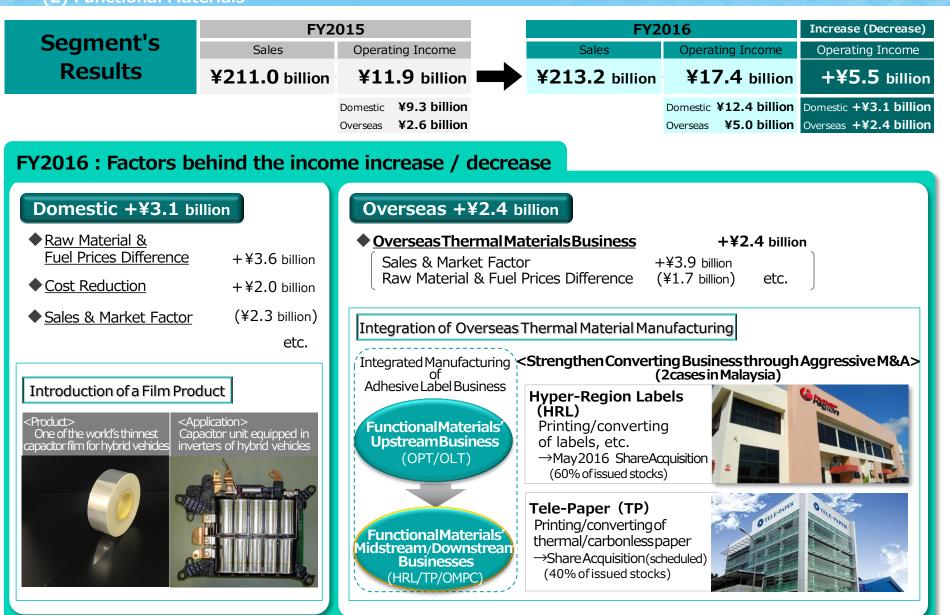
II. FY2016 Financial Forecast 4. Analysis of Increase/Decrease of Income by Segment (1) Household and Industrial Materials



	FY2	015		FY2	016	Increase (Decrease)		
Segment's	Sales	Operating Income		Sales	Operating Income	Operating Income		
Results	¥603.8 billion	¥18.8 billion		¥621.1 billion	¥21.5 billion	+¥2.7 billion		
		Domestic ¥12.5 billion Overseas ¥6.3 billion			Domestic¥17.5 billionOverseas¥4.0 billion			
FY2016 : Factors b	ehind the incor	ne increase / o	lecrea	ase				
Domestic +¥5.0 t	oillion		Ov	erseas (¥2.3 bi	illion)			
Household & Consum Raw material & fuel price Increased sales volume	es difference	55 +¥1.9 billion +¥2.2 billion +¥0.6 billion etc.	◆ <u>Ir</u>	nfluences of Exchan	geRateConversion	etc.		
	nent of Disposable Dia	aper Machines	Expansion of Overseas Packaging Business -Dazun Paper Industrial Company (Selangor, Malaysia) →September2016 Share acquisition -Oji Myanmar Packaging (Thilawa SEZ, Myanmar)					
(Production capabilit	fcommercialoperation y: 135 mil. diapers/yr)							
-September2017 S (Production capability	Startofcommercialope y: 130 mil. diapers/yr)	ration(scheduled)						
Total production 265 n	n capability after the sta nil. diapers/yr (2 machi	rt of operation nes)	→November 2016 Start of commercial operation of					
(Production capabilit] : 1 machine Start of commercial ope y: 180 mil. diapers/yr) n capability after the sta		corrugated container business (scheduled) →March 2017 Start of commercial operation of flexible packaging & paper cup businesses					
660 n	nil. diapers/yr (4 machi	nes)		Fibre Solutions	(scheduled)	2.1.		
Industrial Materials E Raw material & fuel price Cost reduction Sales & market factor	ces difference	+¥3.1 billion +¥6.7 billion +¥4.5 billion (¥8.7 billion) etc.	nev (Qu →O	v corrugated container eensland, Australia) ctober2017 art of commercial opera	Appea	rance of the new plant (image)		

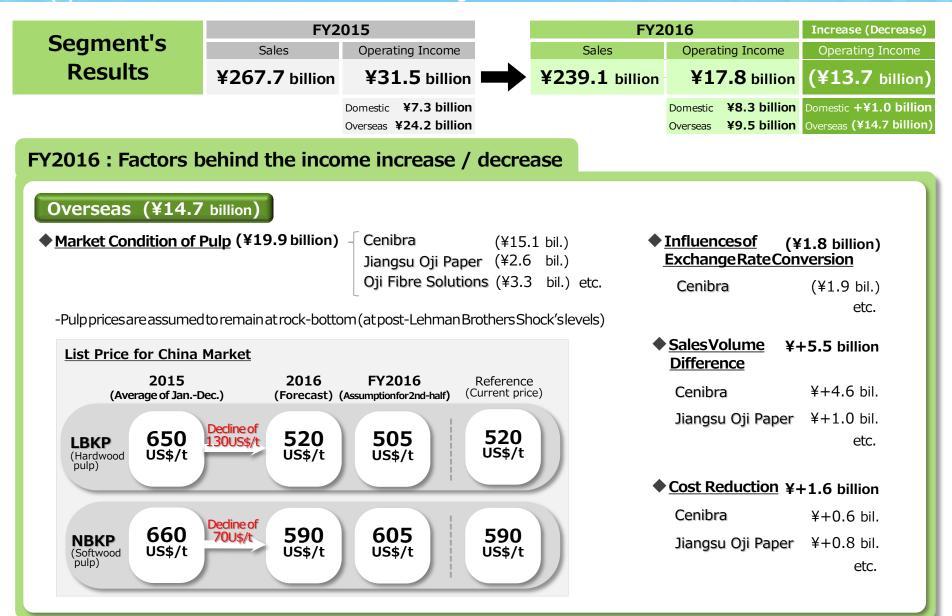
I. FY2016 Financial Forecast 4. Analysis of Increase/Decrease of Income by Segment (2) Functional Materials





I. FY2016 Financial Forecast 4. Analysis of Increase/Decrease of Income by Segment (3) Forest Resources and Environment Marketing



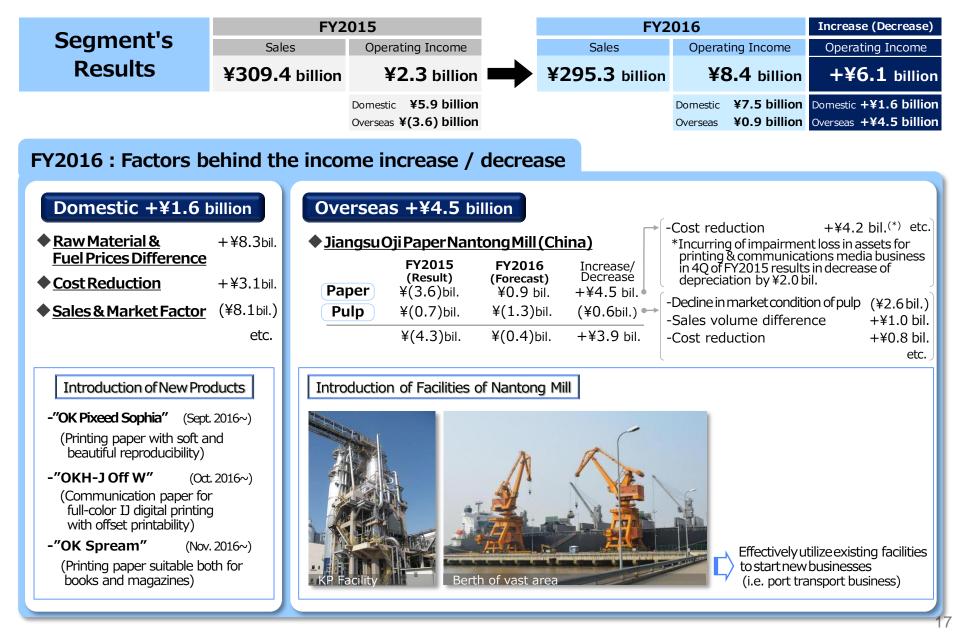


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I. FY2016 Financial Forecast 4. Analysis of Increase/Decrease of Income by Segment



(4) Printing and Communications Media



5. Influences of Changes in External Environment



(¥billion/year)

			Household & Industrial Materials	Functional Materials	Forest Resources & Environment Marketing	Printing & Commu- nications Media	Total
Influence fr Changes in	om: exchange rates	ssumed exchange rates fo 2nd-half of FY2016	r				
US\$-based	Japanese Yen (JPY)	105 JPY/USD	1		\Rightarrow	1	(4.4)
transactions (US\$ stronger	Brazilian Real (BRL)	3.4 BRL/USD		⊳	Û	⊳	+2.9
by 10%)	New Zealand Dollar (NZD)	1.39 NZD/USD	Û	ightarrow	Û	ightarrow	+5.6
Conversion of income in	US Dollar (USD)	105 JPY/USD	Û	Û	î	\Rightarrow	+1.2
foreign currency to ¥	Brazilian Real (BRL)	30.9 JPY/BRL	⇒	Û	ightarrow	⇒	+0.2
(¥ weaker by 10%)	New Zealand Dollar (NZD)	75.5 JPY/NZD	Û	ightarrow	Û		+0.6
Changes in			Л	0	$\hat{\mathbf{A}}$	0	+2.2
	pulp prices (US\$10/t str	Snger)	V	•	U	•	+:Improve ():Worsen

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



III. Topics

III. Topics

1. Expansion of Overseas Disposable Diaper Business

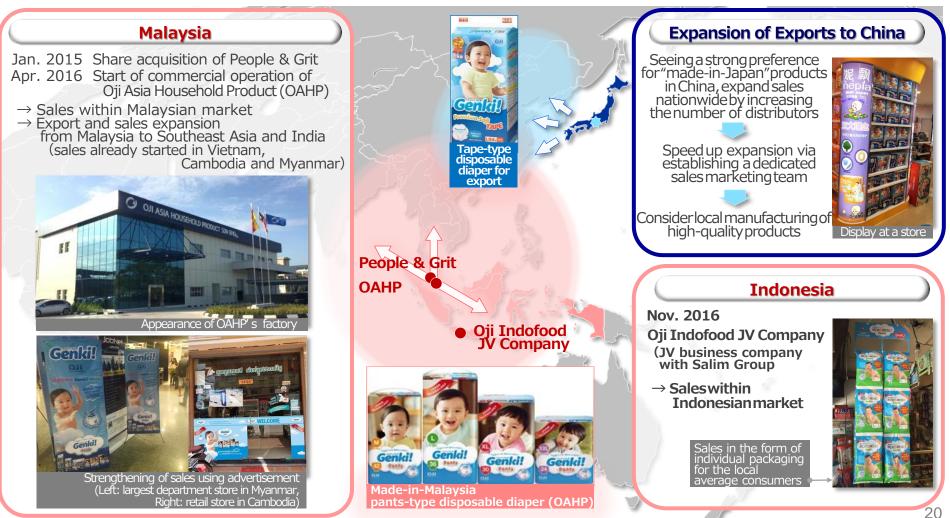


In Southeast Asia

Manufacture products that suit local consumption standards, and strategically strengthen sales by leveraging on our rich business experiences, knowledge of local area, and synergies with local partners

FromJapanto China

Improve product quality using cutting-edge technologies as well as increase exports of high-quality products



III. Topics 3. Cellulose Nano-fiber(CNF)



Development of Manufacturing Technologies

-Oji's unique technology "phosphate esterification" has enabled development of a production process that requires a lower amount of energy to refine pulp

-Oji has succeeded in developing the world's first 3 forms of CNF and will utilize different features of each to develop various applications

<ContinuousTransparentSheet> & Oji's unique

technology

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[Features] -Transparency and flexibility ′≈alass) -Strength and dimensional stability $(\geq plastic)$



-High transparency Ultra-high viscosity/ dispersibility





Verification & Application Development for Commercialization Start of operation of November2016 Manufacturing Demonstration Facility of CNF (Slurry) -Location: Oji Paper Tomioka Mill -Production Capability: 40t/yr 2nd-half of Start of operation of FY2017 the World's First Manufacturing Demonstration Facility Reinforcing materials Flexible organic EL/solar electric of CNF (Continuous Transparent Sheet) power generation panels for plastic -Production capability: 250,000 m2/yr (at first) (will be expanded to 1,000,000 m2 in the future) Expand the scope of sample offering to users all over the world, to actively promote application development and to establish mass production technologie Strong and flexible Highly functional minute display panels Nano-filters Viscosity(mPa·s) Decided to launch the CNF Thickener "AUROVISCO" 5.000 10,000 15,000 20,000 25,000 30,000 Time of launch : April 2017 (scheduled) AUROVISCO Features : Xanthan gum (highly effective with small amount) It exhibits 10~100x higher -High viscosity Guar gum thickening effects compared to -Thixotropic nature (becomes smooth once applied with force) Carboxymethylcellulose (sodiumsalt) other naturally -High transparency derived thickeners Thickening/dispersing agents for high-end cosmetics, etc. -Natural materials (additionally, only safe chemicals are used) Hydroxyethyl cellulose 21

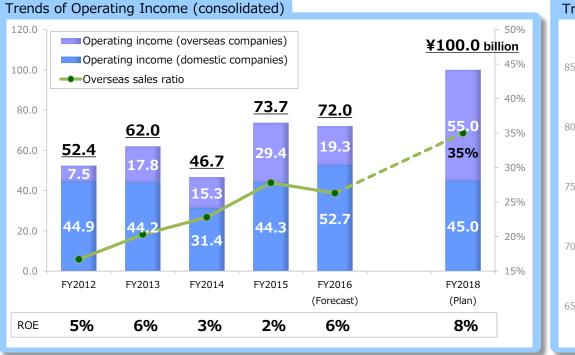


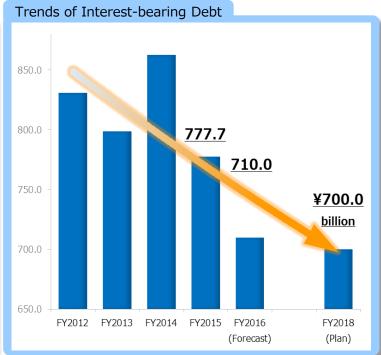
IV. Group Management Targets

IV. Group Management Targets **1. Business Plan (1)Numerical Management Targets**



Management Philosophy ~Desired Future Image of Oji Group~	Management Strategies FY2016-18 Group Fundamental Policies	Numerical Management Targets FY2018		
Creation of Innovative Values	Expansion of Overseas Businesses	Operating Income (consolidated)	¥100.0 billion	
Contribution to	Concentration / Advancement of Domestic Businesses	Overseas Sales Ratio	35% (Future target 50%)	
Future and the World		Interest-bearing Debt	¥700.0 billion (Attheend of FY2016 ¥710.0 billion)	
Harmony with Nature and Society	Enhancement of Financial Foundation	ROE	8%	



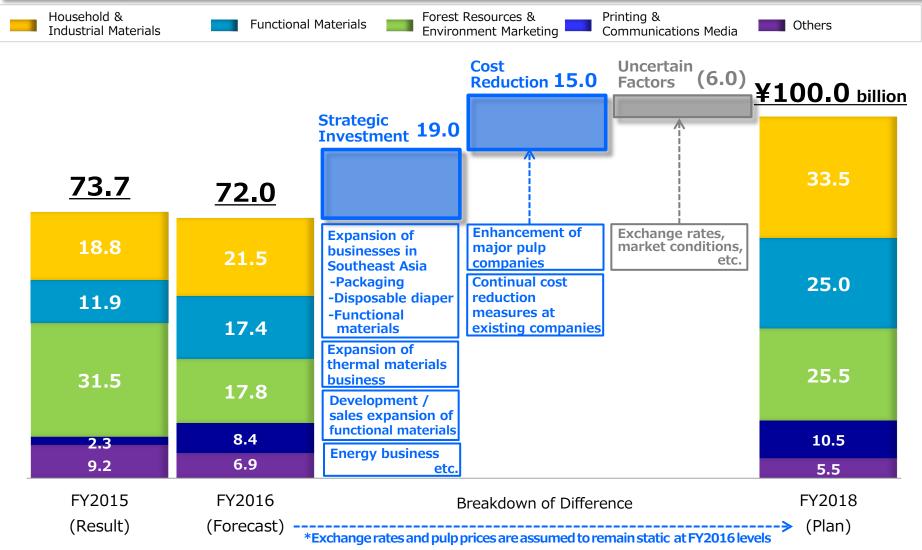


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IV. Group Management Targets **1. Business Plans** (2) Targets for Operating Income by Business Segment



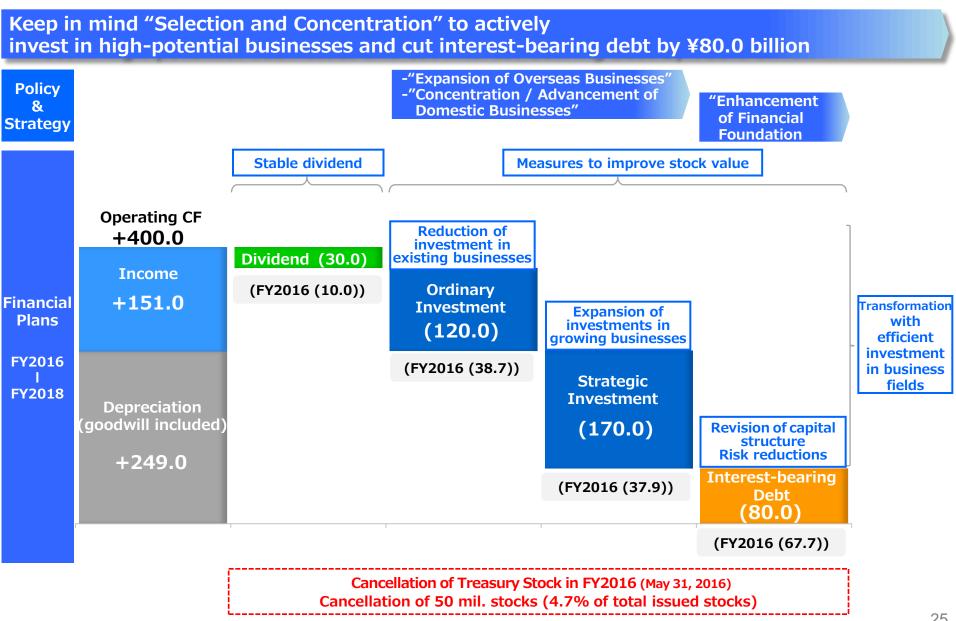
Achieve ¥100.0 billion operating income with strategic investments and cost reductions, even though it is assumed that pulp prices will remain at rock-bottom



IV. Group Management Targets

2. Financial Strategies





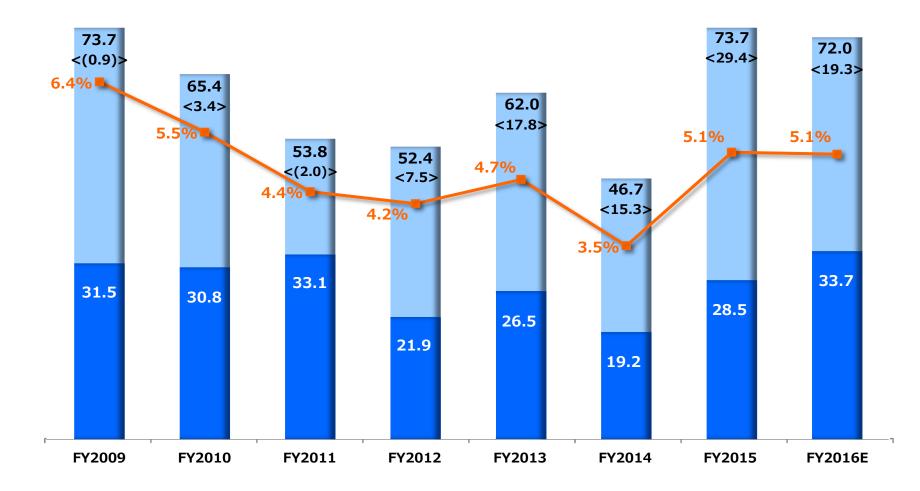


<Reference Materials>

Reference Materials Trends of Operating Income (consolidated)

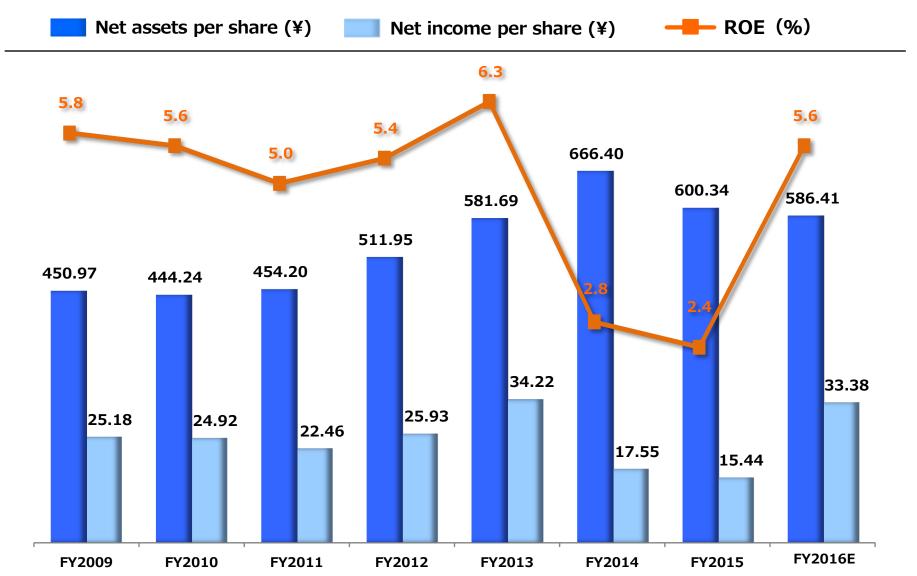




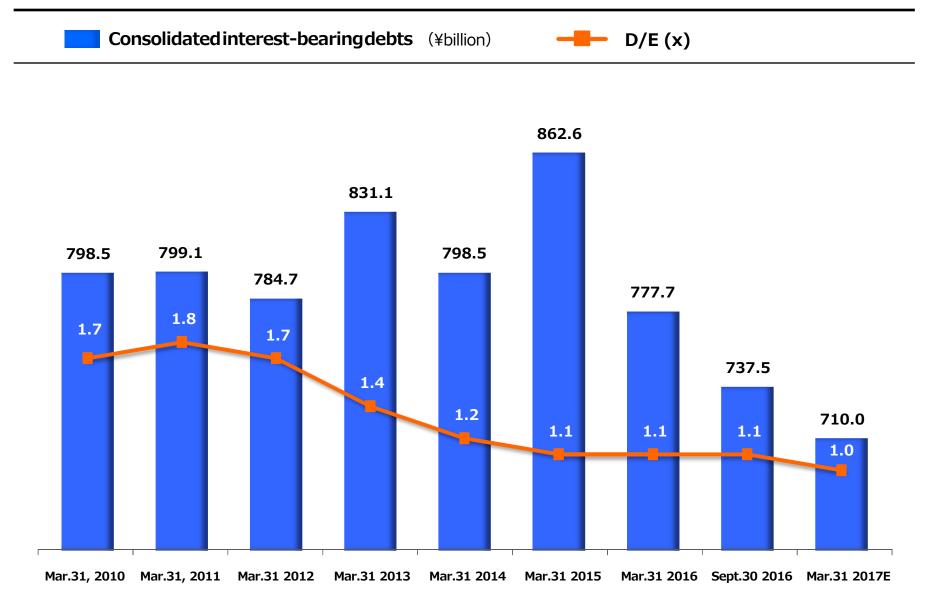


Reference Materials Trends of Return on Equity (ROE)



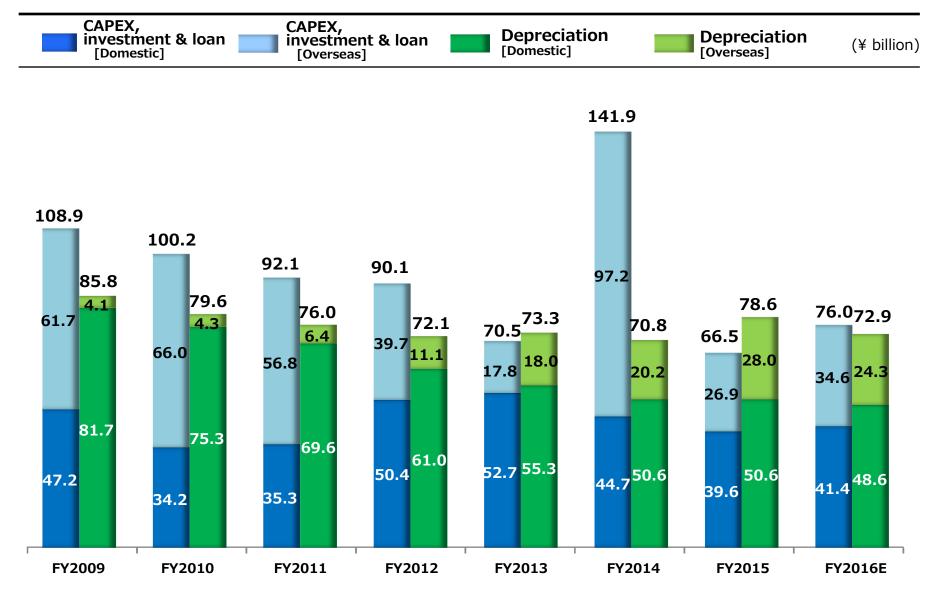






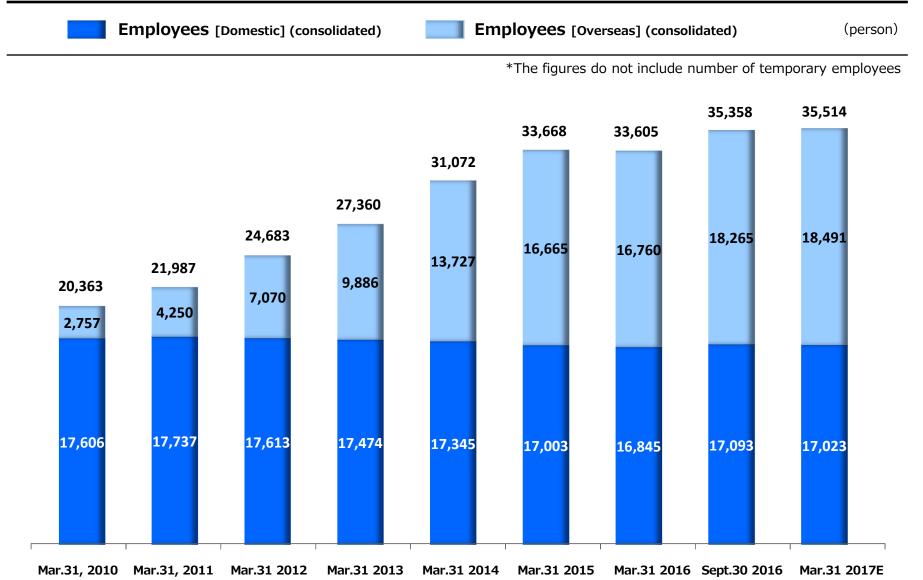
Reference Materials **Trends of CAPEX / Depreciation (consolidated)**





Reference Materials Trends of Employees (consolidated)







(1,000t)

	Domestic Shipments		Custom Cleared Imports*1		Total	
	Y	ear-on-Year	Ŷ	′ear-on-Year		Year-on-Year
Containerboard	4,498	102.0%	22	78.5%	4,520	101.8%
Boxboard	762	101.3%	126	99.2%	888	101.0%
Other Paperboard	312	99.8%	12	79.0%	324	98.9%
Paperboard Total	5,572	101.8%	160	94.1%	5,732	101.5%
Sanitary Paper	889	104.0%	94	104.4% ^{*2}	984	104.1%
Packaging Paper	350	99.1%	3	73.5%	354	98.8%
Newsprint	1,435	97.0%	7	39.8%	1,442	96.3%
Printing/Communications Paper	3,698	99.5%	498	83.3%	4,196	97.3%
Miscellaneous Paper	348	97.1%	10	105.3%	358	97.3%
Paper Total	6,721	99.4%	612	85.1%	7,333	98.0%
Paperboard and Paper Total	12,293	100.5%	771	86.8%	13,065	99.5%
						(million m2)
Corrugated Containers *3	7,031	101.7%			7,031	101.7%

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 - September 2016

*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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