

Summary of Financial Business Results

November 16, 2017

December 14, 2017 (Updated)







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I.1st-half of FY2017 Result Overview

1. Financial Highlights of 1st-half of FY2017 (consolidated)



(¥ billion)

				(* Dillion)
		1st-half of FY2016	1st-half of FY2017	Increase (Decrease)
Net Sales		692.9	718.4	25.5
Operating Prof	fit	33.6	26.6	(7.0)
Ordinary Profi	t	12.6	24.2	11.6
Profit Attributable to Owners	of Parent	8.4	16.5	8.1
Depreciation		35.9	35.2	(0.7)
Overseas Sales Ratio		26.4%	29.9%	3.5%
Operating Profit of Overseas	Companies	11.9	18.1	6.2
Average Exchange Rate	(¥/US\$)	105.3	111.1	5.8
Number of Consolidated Companies	Domestic Overseas	95 103	92 105	(3) +2
	Total	198	197	(1)

Domestic (3): +1[Lumber company], (3)[Paperbag/folding carton companies], (1)[Paper product company]

Overseas +2 : +5[Thermal material companies in Malaysia], +3[Corrugated container companies in Australia],

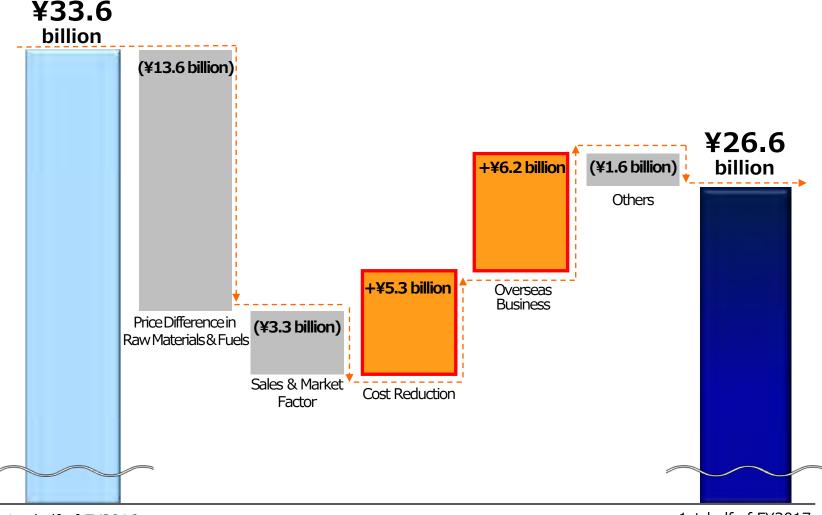
+1[Corrugated container company in Singapore], (2)[Forest plantation/lumber companies], (2)[Others]

Equity Method Affiliates +2 (Domestic+1, Overseas+1)





Profit Decrease of ¥7.0 billion due to rise in raw material & fuel prices, etc.



3. Sales and Operating Profit by Segment [1st-half of FY2017 Result]



						(¥ billion)	
	1st-half	of FY2016	1st-half	of FY2017	Increase (Decrease)		
	Sales	Operating Profit	Sales	Operating Profit	Sales	Operating Profit	
Household & Industrial Materials	301.8	9.4	317.2	(0.2)	15.4	(9.6)	
Functional Materials	103.1	7.5	106.5	8.9	3.4	1.4	
Forest Resources & Environment Marketing	127.7	10.3	142.2	16.3	14.5	6.0	
Printing & Communications Media	145.5	1.8	140.8	(2.6)	(4.7)	(4.4)	
Others	14.8	4.6	11.7	4.2	(3.1)	(0.4)	
Total	692.9	33.6	718.4	26.6	25.5	(7.0)	

^{*1:} Sales include intra-segment sales *2: Others include adjustment amount

4. Analysis of Increase/Decrease in Profit by Segment (1) Household and Industrial Materials



1st-half of FY2016 **Operating Profit**

Sales

¥301.8 billion ¥9.4 billion Overseas ¥2.8 billion Domestic¥6.6 billion

1st-half of FY2017 Sales **Operating Profit** ¥317.2 billion ¥(0.2 billion) Domestic¥(2.5 billion) Overseas ¥2.3 billion

Increase (Decrease) Operating Profit Domestic (¥9.1 billion)

(¥9.6 billion) Overseas (¥0.5 billion)

Factors behind the profit increase (decrease) [(¥9.6 bil.)]

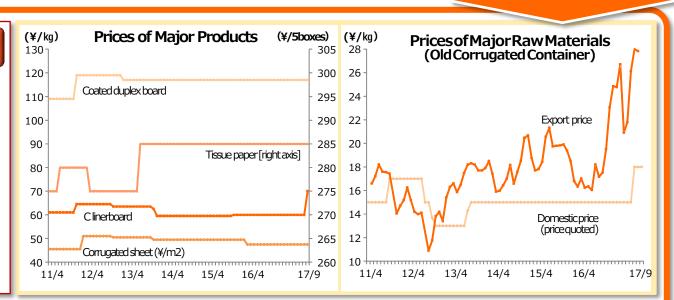
Domestic business (¥9.1 bil.) Price difference in (¥9.6 bil.) raw materials&fuels

Sales/marketfactor (¥0.4 bil.)

Cost reduction +¥2.0 bil. etc

Overseas business (¥0.5 bil.)

> Profit decrease due to high rawmaterials & fuel prices, etc.; despite steady sales of corrugated containers in Southeast Asia



			1st-l	nalf of FY2	2016	1st-half of FY2017 Increase (De				Decrease))	
	Salesof		Sales Volume	Unit Price	Sales Amount	Sales Volume	Unit Price	Sales Amount		Year-on Year	Unit Price	Sales Amount
	Major Produc	ts (*)	1,000 t (or) million m² (or) million pcs	¥/kg(ar) m²(ar)pc	¥ billion	1,000 t (or) million m² (or) million pcs	¥/kg(or) m²(or)pc	¥ billion	1,000 t (or) million m² (or) million pcs	%	¥/kg(or) m²(or)pc	¥ billion
F	aperboard	Domestic	1,493	63.70	95.1	1,547	63.24	97.8	54	103.6%	(0.47)	2.7
(Corrugated sheet & container (million m²)	Domestic & Overseas	1,938	62.02	120.2	1,978	62.91	124.4	41	102.1%	0.89	4.3
F	ackaging paper	Domestic	130	100.30	13.0	129	100.27	13.0	(0)	99.6%	(0.04)	(0.1)
H	lousehold paper	Domestic	93	227.32	21.2	97	227.99	22.2	4	104.5%	0.66	1.0
	Disposable diaper (million pcs)	Domestic & Overseas	436	20.08	8.8	442	19.04	8.4	6	101.4%	(1.04)	(0.3)

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

4. Analysis of Increase/Decrease in Profit by Segment (2) Functional Materials



1st-half of FY2016								
Sales	Operating Profit							
¥103.1 billion	¥7.5 billion	Domestic ¥5.2 billion Overseas ¥2.3 billion						

1st-half of FY2017								
Sales	Operating Profit							
¥106.5 billion	¥8.9 billion	Domestic ¥6.3 billio Overseas ¥2.6 billio						

	Increase (Decrease)							
	Operating Profit							
ion lion	+¥1.4billion Domestic+¥1.1billion Overseas +¥0.3billion							

Factors behind the profit increase (decrease) [+¥1.4 billion]

◆ Domestic business +¥1.1bil.

Sales/marketfactor

1.1 bil. ◆ Overseas business +¥0.3bil.

Cost reduction +¥1.2 bil.

+¥0.2bil.

Price difference in raw materials&fuels (¥0.5 bil.)

etc.

Price difference in raw materials & fuels (influences from BRL appreciation), etc.

Prices of Major Raw Materials and Fuels
130
120-
110
100
90 - 7 / 1
80 1
70
60 \
50
40
30 - Coal [Australia/Newcastle](\$/t)
20 - Crude oil [Dubai] (\$/bbl)
10 - Naphtha [Japan](¥1,000/kl)
0 10/4 11/4 12/4 13/4 14/4 15/4 16/4 17/9

		1st-	half of FY2	2016	1st-half of FY2017 Increase (Decrease)						
		Sales Volume	Unit Price	Sales Amount	Sales Volume	Unit Price	Sales Amount	Sales Volume	Year-on Year	Unit Price	Sales Amount
Major Prod	ucts (*)	1,000 t (or) million m ²	¥/kg (or) m²	¥ billion	1,000 t (or) million m²	¥/kg (or) m²	¥ billion	1,000 t (or) million m²	%	¥/kg (or) m²	¥ billion
Thermal paper (million m²)	Domestic & Overseas	1,587	18.64	29.6	1,522	19.46	29.6	(65)	95.9%	0.83	0.1
Specialty paper	Domestic	93	234.47	21.7	95	241.58	23.0	3	102.7%	7.11	1.3

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

4. Analysis of Increase/Decrease in Profit by Segment (3) Forest Resources and Environment Marketing



1st-half of FY2016

Sales **Operating Profit**

Domestic ¥3.9 billion ¥127.7 billion ¥10.3 billion Overseas ¥6.4 billion

1st-half of FY2017 Sales **Operating Profit** ¥142.2 billion ¥16.3 billion

Domestic ¥4.3 billion Overseas ¥12.0 billion

Increase (Decrease)

Operating Profit

Domestic+¥0.4 billion -¥6.0billion Overses +¥5.6 billion

Factors behind the profit increase(decrease)[+¥6.0billion]

- Domestic business
- +¥0.4bil.
- Steady sales volume of energy business
- Profit increase due to strong export sales of dissolving pulp and exchange rates difference caused by yen appreciation
- +¥5.6 bil. Overseas business
- +¥6.0 bil. ·Rise in pulp prices
- +¥1.4 bil. ·Sales expansion of pulp
- ·Increase in cost due to (¥2.9 bil.) **BRL** appreciation etc.



Salesof		1st-	half of FY2	016	1st-half of FY2017			Increase (Decrease)			
	. 	Sales Volume	Unit Price	Sales Amount	Sales Volume	Unit Price	Sales Amount	Sales Volume	Year-on Year	Unit Price	Sales Amount
Major Produ	JCts (*)	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	1,109	53.97	59.9	1,127	63.80	71.9	17	101.6%	9.84	12.0
(Dissolving pulp)	Domestic	43	90.21	3.9	52	97.17	5.0	8	119.2%	6.96	1.1
Electric power (Gwh)	Domestic	514	20.39	10.5	515	21.16	10.9	1	100.2%	0.77	0.4

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

4. Analysis of Increase/Decrease in Profit by Segment (4) Printing and Communications Media



etc.

1st-half of FY2016								
Sales	Operating Profit							
¥145.5 billion	¥1.8 billion	Domestic ¥1.4 billion Overseas ¥0.4 billion						

	1st-half of FY2017								
	Sales	Operating Profit							
>	¥140.8 billion	¥(2.6 billion)	Domestic ¥(3.8billio n Overseas ¥1.2billio n						

Increase (Decrease)

Operating Profit

Domestic (¥5.2 billion)

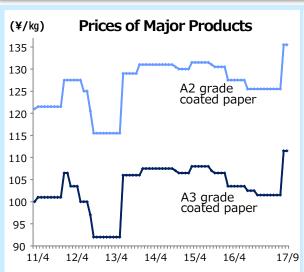
Oversum +¥0.8 billion

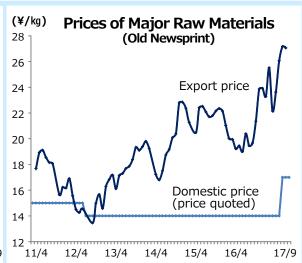
Factors behind the profit increase (decrease) [(¥4.4 bil.)]

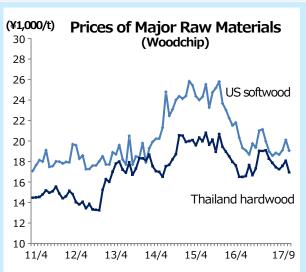
- ◆ DomesticBusiness (¥5.2 bil.)
- Overseas Business +¥0.8 bil.

Price difference in (¥3.5 bil.) Sales/marketfactor (¥3.1 bil.) raw materials & fuels Cost reduction +¥2.1 bil.

Profit increase due to cost reduction efforts and increased sales/price rise of printing paper







Salesof	1st-half of FY2016			1st-half of FY2017			Increase (Decrease)			
Major Products (*)	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	Sales Amount ¥ billion
Newsprint, Printing & Domestic Communication Paper	1,190	107.71	128.2	1,161	105.19	122.1	(29)	97.5%	(2.52)	(6.1)

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



1. Financial Forecast for FY2017



(¥ billion)

	FY2016	FY2017F	Increase (Decrease)
Net Sales	1,439.9	1,500.0	60.1
Operating Profit	70.2	75.0	4.8
Ordinary Profit	52.9	64.0	11.1
Profit Attributable to Owners of Parent	40.3	37.0	(3.3)
Depreciation	74.8	70.7	(4.1)
Overseas Sales Ratio	28.2%	29.7%	1.5%
Operating Profit of Overseas Companies	19.7	43.4	23.7
Average Exchange Rate (¥/US\$)	108.4	110.6	2.2

^{*}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 Profit (per annum)
- -Exchange rate Japanese Yen : approx. ¥0.19 billion with a fluctuation of US\$ by 1% (strong US\$ -)

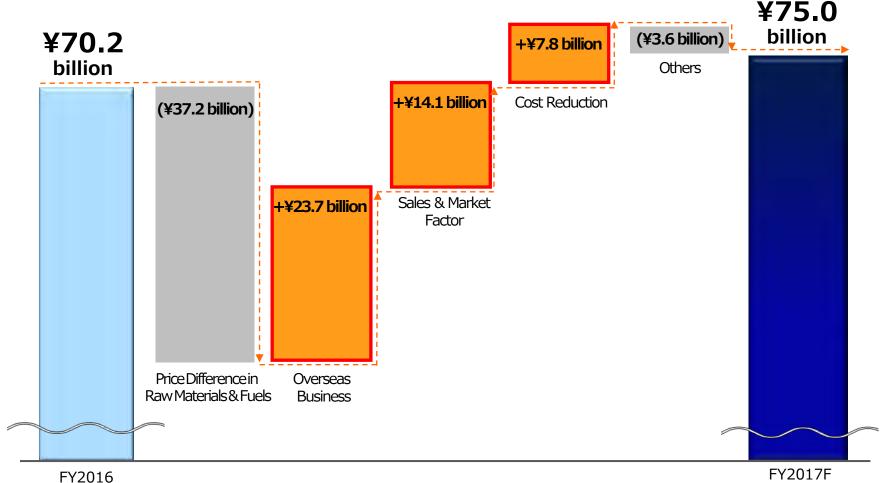
Brazilian Real : approx. ¥0.42 billion with a fluctuation of US\$ by 1% (strong US\$ +)

- New Zealand Dollar: approx. ¥0.73 billion with a fluctuation of US\$ by 1% (strong US\$ +)
 -Price of recovered paper: approx. ±¥4.10 billion with a fluctuation of ¥1/kg
- -Price of Dubai crude oil : approx. ±¥0.29 billion with a fluctuation of US\$1/bbl
 - (heavy oil, bunker, naphtha and others)
- -Price of pulp : approx. ±¥2.30 billion with a fluctuation of US\$10/t (high price +)

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



Profit Increase of ¥4.8 billion despite high raw material & fuel prices, due to recovery in pulp prices, price adjustment, and cost reduction



3. Sales and Operating Profit by Segment [FY2017 Forecast]



						(¥ billion)
	FY2	FY2016		017F	Increase (Decrease)	
	Sales	Operating Profit	Sales	Operating Profit	Sales	Operating Profit
Household & Industrial Materials	620.3	18.8	665.0	9.3	44.7	(9.5)
Functional Materials	217.6	17.5	220.5	19.8	2.9	2.3
Forest Resources & Environment Marketing	270.3	19.1	294.0	39.4	23.7	20.3
Printing & Communications Media	296.1	5.5	292.0	(1.8)	(4.1)	(7.3)
Others	35.6	9.3	28.5	8.3	(7.1)	(1.0)
Total	1,439.9	70.2	1,500.0	75.0	60.1	4.8

^{*1:} Sales include intra-segment sales *2: Others include adjustment amount

4. Analysis of Increase/Decrease in Profit by Segment (1) Household and Industrial Materials



FY2016 Operating Profit Sales Domestic ¥15.1 billion

Sales

Operating Profit Domestic ¥5.3 billion

(¥9.5 billion) Domestic (¥9.8billion)
Oversees +¥0.3billion

Increase (Decrease)

Operating Profit

¥620.3 billion ¥18.8 billion Oversess ¥3.7 billion

¥665.0 billion ¥9.3 billion

FY2017

Overseas ¥4.0 billion

«FY2017: Factors behind the profit increase / decrease»

Domestic (¥9.8 billion)

◆ Household & Consumer Products Business (¥0.8billion)

Price difference in raw materials & fuels Sales and Market Factor

(¥1.0 billion) +¥0.4 billion etc.

Enhancement of Disposable Diaper Business

Additional installation of baby disposable diaper [tape-type] machine

Sept. 2017 Start of commercial operation

"Whito", new brand for baby disposable diapers

Oct. 2017 Start of nationwide sales



"Whito" 3hours/12hours

◆ Industrial Materials Business

Price difference in raw materials & fuels Sales & Market Factor

(¥9.0 billion)

(¥26.1 billion) +¥14.5 billion etc.

High-grade Paperboard Business

 O&C Ivory Board Sept.2017 Start of commercial operation



Overseas +¥0.3 billion

◆ Industrial Materials Business +¥0.2 billion

Expansion of Overseas Packaging Business

Oii Cardboard Carton Solutions (Melbourne/Australia)

Business Manufacturing/sales of corrugated container products that require decorative printing and special processing, etc.

Schedule Sept. 2017 Business acquisition

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

Business Lineup

Manufacturing/sales of corrugated containers

Oct. 2017 Start of commercial operation



4. Analysis of Increase/Decrease in Profit by Segment (2) Functional Materials



	FY2016
Sales	Operating Profit

¥217.6 billion ¥17.5 billion

Domestic ¥12.8 billion _ Overseas ¥4.7 billion

Sales

¥220.5 billion ¥19.8 billion

FY2017

Domestic **¥14.3** billion Overseas ¥5.5 billion

Increase (Decrease)

Operating Profit

+¥2.3billion Oversess +¥0.8billion Domestic +¥1.5billion

«FY2017: Factors behind the profit increase / decrease»

Domestic +¥1.5 billion

- ◆ Sales & Market Factor +¥2.5 billion
- Cost Reduction +¥1.3 billion
- **♦** Price Difference in (¥2.1 billion) **Raw Materials & Fuels** etc.

Strengthening of R&D-oriented Business

New product <"Seishiki" HOT CLOTH> Dry body cleansing sheet with long-lasting warmth



Collaborate with R&D div. (Oii Holdings Innovation Promotion Div.) to develop high value-added products

Overseas +¥0.8 billion

◆ Price Difference in Raw Materials & Fuels +¥1.0 billion etc.

Operating Profit

[Brazil] Capacity Enhancement of Thermal Paper

Oji Papéis Especiais (OPE)

July 2017 Installation of multi-layer curtain coater ··· 10% increase in production capability

Consider further **investment** to keep up with the strong demand



[Southeast Asia] Integration of Functional Material Manufacturing, Expansion of Business Field

Hyper-Region Labels (HRL) (Malaysia)

Printing/converting of labels, etc.

Schedule May 2016 Share acquisition (60% of issued stocks)

Tele-Paper (TP) (Malavsia)

Business Lineup Printing/converting of thermal/carbonless paper, etc.

Schedule Aug. 2017 Share acquisition (76% of issued stocks)

Oji Myanmar Packaging (OMPC) (Myanmar)

Business Lineup Production/sales of flexible packaging products, etc.

Sept. 2017 Start of commercial operation Schedule



4. Analysis of Increase/Decrease in Profit by Segment (3) Forest Resources and Environment Marketing



FY2016			ı	FY2017			Increase (Decrease)	
Sales	Operating Profit		ı	Sales Operating Profit		Operating Profit		
¥270.3 billion	¥19.1 billion	Domestic ¥8.7 billion Overseas ¥10.4 billion	>	¥294.0 billion	¥39.4 billion	Domestic ¥8.6 billion Oversees ¥30.8 billion	+¥20.3billion Domestic (¥0.1bilion) Overseas +¥20.4bilion	
						,		

«FY2017: Factors behind the profit increase / decrease»

Overseas +¥20.4 billion

♦ Rise in Pulp Prices +¥26.9 billion

> +¥12.0 billion **CENIBRA** +¥8.3 billion Jiangsu Oji Paper Oji Fibre Solutions +¥3.9 billion +¥2.7 billion PAN PAC

> > etc.

2016 2017 2nd-half of Reference **List Price for** (Average of FY2017 (Recent price) (Estimate) **China Market** Jan.-Dec.) (Assumption) L50US\$/t **520 670** 710 790 **LBKP** Rise US\$/t US\$/t US\$/t US\$/t (Eucalyptus) 70US\$/t **590** 660 680 810 **NBKP** Rise US\$/t US\$/t US\$/t US\$/t (Pinus radiata)

Recovery trend after hitting the bottom in Sept. 2016

- ◆ Increase in Cost due to BRL Appreciation (¥5.8 billion)
- Price Difference in Raw Materials & Fuels (¥4.0 billion)

etc.





4. Analysis of Increase/Decrease in Profit by Segment (4) Printing and Communications Media



	FY2016		
Sales	Operating Profit		
¥296.1 billion	¥5.5 billion	Domestic ¥4.5 billion Overseas ¥1.0 billion	

	FY2017	
Sales	Opera	ting Profit
¥292.0 billion	¥(1.8 billion)	Domestic ¥(4.9 billion) Overseas ¥3.1 billion

	Increase (Decrease)
	Operating Profit
)	(¥7.3 billion) Domestic (¥9.4 billion) Overseas +¥2.1 billion

«FY2017: Factors behind the profit increase / decrease»

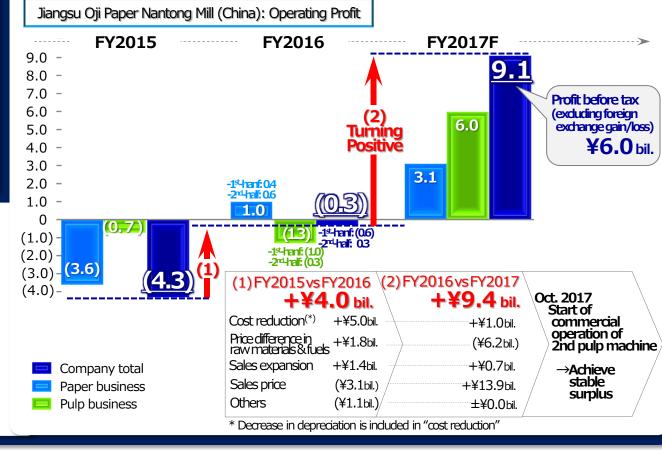
Domestic (¥9.4 billion)

- ◆ Price Difference in Raw Materials & Fuels
- ◆ <u>Sales & Market Factor</u> (¥3.5bil.)
- ◆ <u>Cost Reduction</u> +¥3.0bil. etc.

Overseas +¥2.1 billion

- ◆ Price Difference in Raw Materials& Fuels
 (¥4.8bil.)
- ◆ Sales & Market Factor +¥6.0bil.
- ◆ <u>Cost Reduction</u> +¥1.0bil.

etc.



5. Influences of Changes in External Environment



(¥billion/year)

			Household & Industrial Materials	Functional Materials	Forest Resources & Environment Marketing	Printing & Commu- nications Media	Total
-	operating income from		ofor				
Changes in	exchange rates Assi	umed exchange rate 2nd-half of FY2017	STOR				
US\$-based	Japanese Yen (JPY)	110.00 JPY/USD	Ţ	\Rightarrow	=	Ţ	(4.2)
transactions (US\$ stronger	Brazilian Real (BRL)	3.10 BRL/USD	ightharpoonup	\Rightarrow	Û	\Rightarrow	+4.2
by 10%)	New Zealand Dollar (NZD)	1.41 NZD/USD	Û	ightharpoonup	Û	\Rightarrow	+7.3
Conversion of income in	US Dollar (USD)	110.00 JPY/USD	Û	Û	Û	\Rightarrow	+2.3
foreign currency to ¥	Brazilian Real (BRL)	35.50 JPY/BRL	ightharpoons	Û	ightharpoonup	\Rightarrow	+0.3
(¥ weaker by 10%)	New Zealand Dollar (NZD)	78.00 JPY/NZD	Û	\Rightarrow	Û	ightharpoonup	+0.6
Changes in	pulp prices (US\$10/t stro	onger)	Û	Î	Î	1	+2.3

+: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

TBeyond the Boundaries J

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~

<Overseas Sales Ratio> 35% (Future target 50%)

<Interest-bearing Debt> ¥700.0 billion

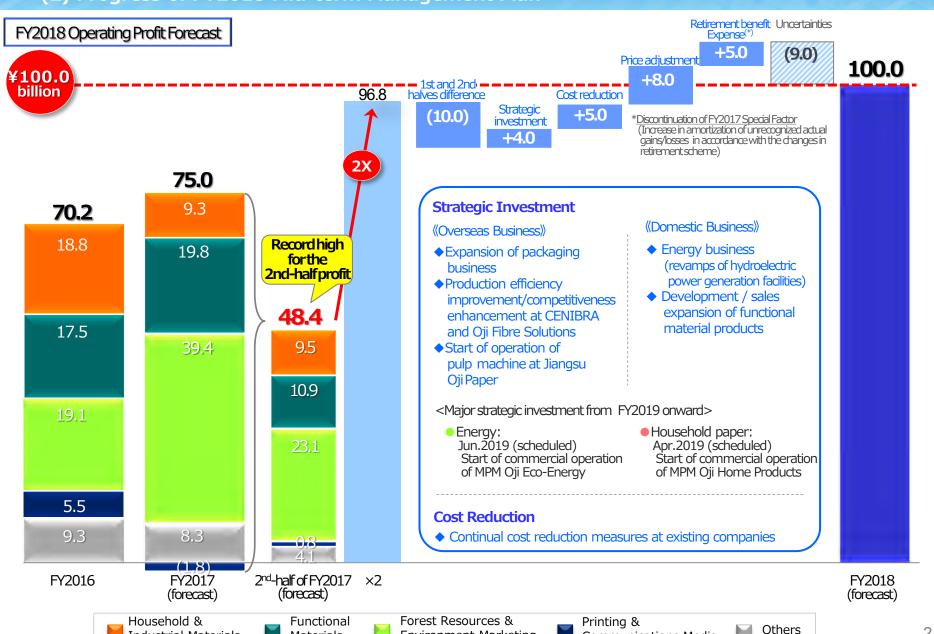
1. Business Plans

Industrial Materials

Materials







Environment Marketing

Communications Media



IV. Topics

1. Business Strategies

(1) Southeast Asia / Oceania: Corrugated Container Business

New Corrugated Container Plants

Take in the increasing demand in the entire regions of SE Asia and Oceania

Oct. 2017

Oji Fibre Solutions (Queensland/Australia)

Apr. 2018

Harta Packaging Industries (Perak/Malaysia)

Mar. 2019

Corrugated container: 2

[India]

United Packaging (Ho Chi Minh City/Vietnam) *

*Major business excluding corrugated container: food packaging container such as paper cup, etc.

Future Plans

Malaysia

- Installation of a containerboard machine
- Expansion and capacity enhancement of corrugated container plants

Vietnam, India etc.

Establishment of corrugated container plants

Others

[Australia]

Paper cup

Corrugated container: 4

Acquisition of corrugated container company

[New Zealand]

Corrugated container

Paperboard

Fiberboard

Paper bag

Entries into new countries

[Mvanmar] Corrugated container: 2

[Vietnam]

Corrugated container: 4 Folding carton : 1

Paper bag

[Cambodia]

: 2

Corrugated container: 1 Corrugated container, : 1

Plastic bag

[Thailand]

Corrugated container: 1 Corrugated container, : 3 Folding carton

[Malaysia]

Paperboard |



: 2 Corrugated container: 8 Plastic bag



<Oceania>

-1

: 3

: 1



Business Strategies Overseas Disposable Diaper Business



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

Strategic Business Enhancement in Southeast Asia

«Malaysia»

Manufacturing/sales of disposable diapers at 2 companies

April 2017 Start of sales of Baby [tape-type] diapers, in addition to the existing Baby [Pants-type] diapers



Expand sales within Malaysia
-Establish customer loyalty by
penetrating newborn babies market
-Enhance product competitiveness



Expand export to
neighboring countries
-Proceed entries into new countries,
in addition to the existing exports to
Vietnam, Cambodia, Myanmarand UAE

«Indonesia»

Oji Indo JV Companies

November 2016 Start of sales in Indonesia

November 2017 Start of sales at mini markets*

*Small supermarkets developing throughout Indonesia

Leveraging on Indofood's distribution channels, expand sales through Indomaret (the leading mini market with 13,000 stores in Indonesia) as the most important sales channel



Manufacturing of pants-type disposable diaper (Malaysia)



Local supermarket (Indonesia)



Mini market (Indonesia)

Exportto/Production&SalesinChina

Export from Japan to China Seeing a strong preference for "madein-Japan" products in China, increase sales and market shares with a main focus in Shanghai / East China regions

Production & Sales in China

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



Baby product store in Juangsu

Oji Asia Household Product Group

Oji Indofood JV Companies

1. Business Strategies





Manufacturing Integration in Southeast Asia Region

Thailand

Converting paper manufacturing at 2 companies

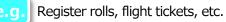
- ·Thermal paper
- Carbonless paper
- Adhesive / release paper etc.



Malaysia

Printing/converting at 2 companies

- Thermal paper printing, cutting and other converting
- ·Label manufacturing





Flexible Packaging Product: 1

Oji Myanmar Packaging

Converting paper: 2

Oji Paper (Thailand)

Oji Label (Thailand)

Printing/converting: 2

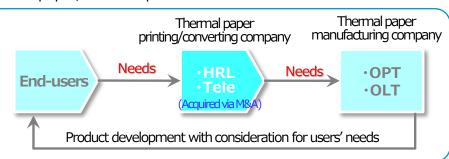
Hyper-Region Labels (acquiredin May 2016)

Tele-Paper Malaysia (acquired in August 2017)

Strengthening Product Development through Acquiring Downstream Business

etc.

Promote competitiveness enhancement/sales expansion by developing thermal paper/adhesive products that reflect end-users' needs



Future Plans

Collaborate with corrugated container and flexible packaging businesses to develop **Total Solution Packaging** in Southeast Asia

2. Research and Development (1) Cellulose Nano-fiber (CNF)





Wide Variety of CNF Produced by Oji's Unique Technology, "Phosphate Esterification"

*CNF is a plant fiber (pulp) that is finely fibrillated to nano-order level. Being transparent, light and strong, moldable and with its excellent thickening effect, its application in various fields is highly anticipated.



CNF Hydrophobic Powder

Development Progress

	3111011611091000				
	Dec. 2016	May 2017	Jun. 2017	Oct. 2017	2nd-half of FY2017
Slurry	AUROVISCO Start of operation of: Demonstration Facility Production:40t/yr capability:40t/yr	AUROVISCO Product launch			
Powder		D	Powderthatcanbe bissolved inorganicsolver Product launch	nts	
Sheet		AUROVEIL 3D Sample distribution		AUROVEIL WP Sample Distribution	Variety of AUROVEIL Start of operation of : Demonstration Facility (scheduled) (Production: 250,000m2/yr)

Expected Applications

- ·Thickener/disperser
- Reinforcing plastic (i.e. air planes)
- Organic EL/solar electric power generation panels
- Flexible display panels



2. Research & Development (2) Medicinal Plant "Licorice" / Water Treatment Business



NEW Cultivation of Medicinal Plant "Licorice(*)">

*Medicinal plant used in 70% of Chinese medicine as well as wide range of applications such as cosmetics, food, toiletries, etc. It is regulated in China, the supply source to Japan, due to the concern for resource exhaustion.

Nov.2016

Establishment of **Short-term Cultivation Technology** of Licorice in Japan

→ cultivation period has been shortened to approx. 1/3

Apr:2017 (press release)

Practical use expected as the raw material for cosmetic products of ALBIONCo., Ltd.

2017

Start of Mass Cultivation

→ Harvesting scheduled in 2019





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 the technologies of water production and water treatment that are accumulated over many years of pulp & paper production



Activities So Far <case examples>

- ·Water Conversion System at Sinsakhon Industrial Estate/Thailand
- •Technological assistance at Mingaladon Industrial Park/Myanmar
- ·Water treatment system for commercial facility (hotel)/Myanmar
- ·Water treatment equipment for marine product business/Japan
- ·Water treatment equipment for paper mills/Japan



- Expand Service Business via sales of water treatment products, etc.
- Develop Maintenance Service by utilizing IoT technologies (i.e. efficient service using remote monitoring, etc.)





《Reference Materials》

Trends of Operating Profit (consolidated)



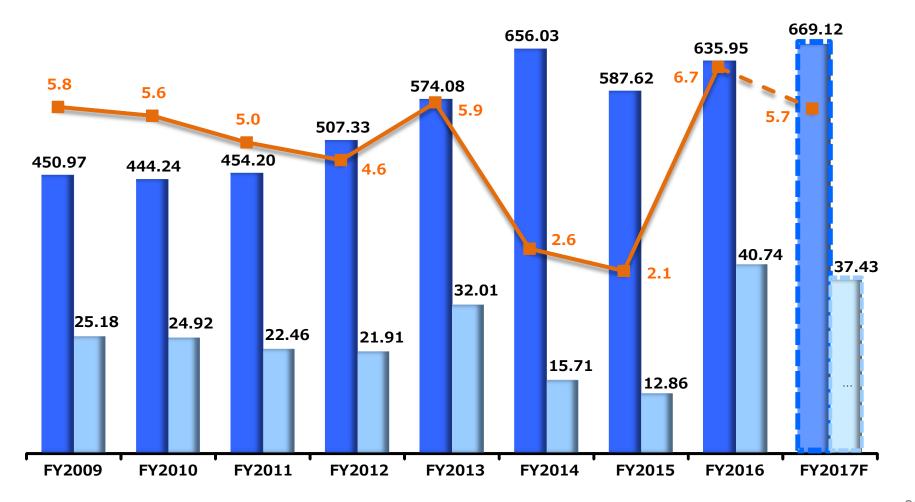




Trends of Return on Equity (ROE)

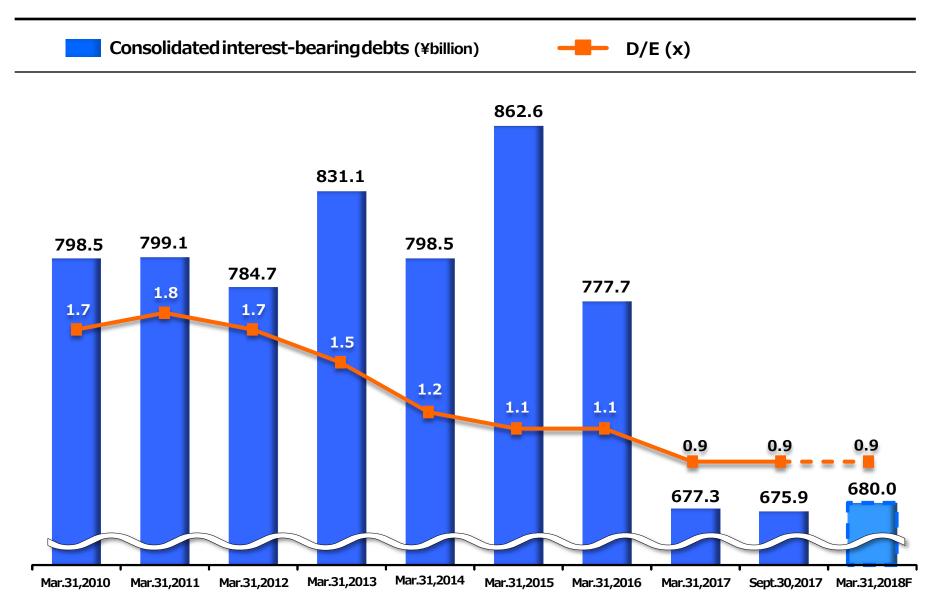






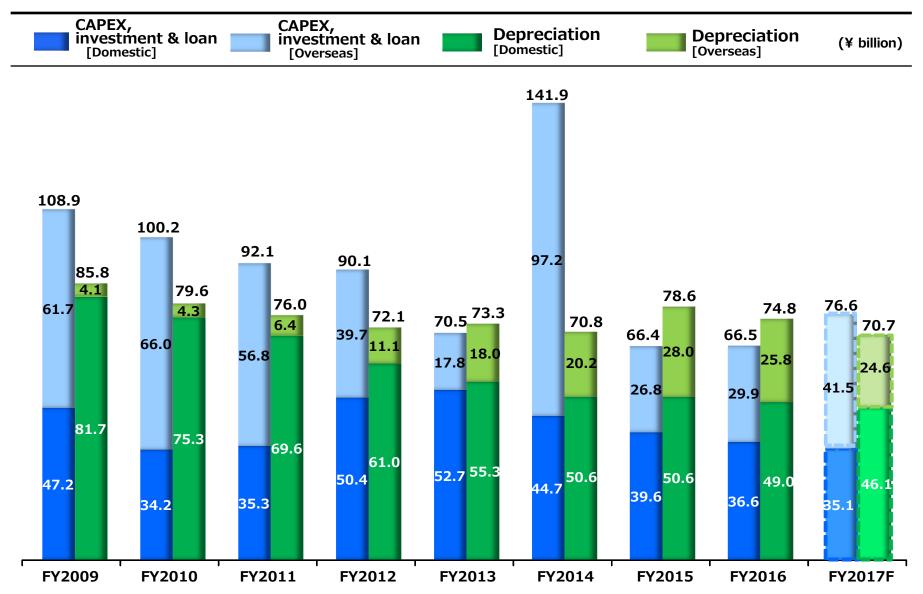
Trends of Interest-bearing Debt (consolidated)





Trends of CAPEX / Depreciation (consolidated)



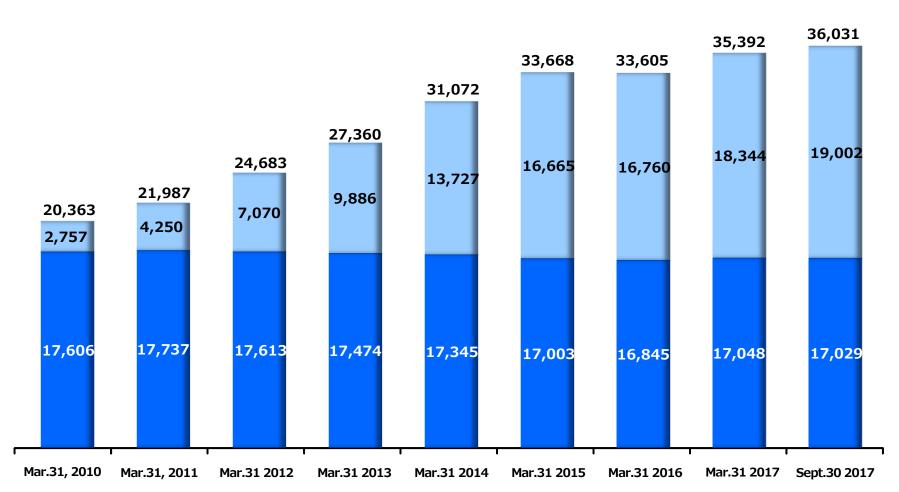


Trends of Employees (consolidated)





*The figures do not include number of temporary employees



Industry Demand for 1st-half of FY2017



	Domestic Ship	nments	Custom Clear	ed Imports*1	Total	(1,000t)
	-	ear-on-Year	Custom Clear	Year-on-Year		/ear-on-Year
Containerboard	4,611	102.5%	23	106.2%	4,634	102.5%
Boxboard	769	100.9%	126	99.8%	895	100.8%
Other Paperboard	321	102.8%	14	120.9%	335	103.5%
Paperboard Total	5,701	102.3%	163	102.2%	5,865	102.3%
Sanitary Paper	887	99.8%	100	106.1% ^{*2}	987	100.4%
Packaging Paper	350	99.9%	4	142.0%	355	100.3%
Newsprint	1,355	94.4%	5	74.4%	1,360	94.3%
Printing/Communications Paper	3,655	98.8%	509	102.2%	4,164	99.2%
Miscellaneous Paper	377	108.1%	9	89.9%	385	107.6%
Paper Total	6,623	98.5%	627	102.5%	7,250	98.9%
	40.00=	400.004	=00	400.40/	40.44=	400 404

Paperboard and Paper Total 12,325 100.3% 790 102.4% 13,115 100.4%

(million m)

Corrugated Containers *3	7,128	101.4%	7,128	101.4%
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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 2017 - September 2017(preliminary)

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

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





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