









Summary of Financial Business Results

May 25, 2020

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I. FY2019 Result Overview

1. Financial Highlights of FY2019 (consolidated)



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				(¥ billion)
		FY2018	FY2019	Increase (Decrease)
Net S	Sales	1,551.0	1,507.6	(43.4)
Opera	ating Profit	110.2	106.1	(4.1)
	[Domestic Companies]	[33.7]	[70.0]	[36.3]
	[Overseas Companies]	[76.5]	[36.1]	[(40.4)]
Ordin	ary Profit	118.4	101.3	(17.1)
Profit Attribut	able to Owners of Parent	52.0	58.2	6.2
Depreci	ation	69.5	63.4	(6.1)
Oversea	s Sales Ratio	32.0%	29.9%	(2.1%)
Average Exchange Rate (¥/US\$)		110.9	108.7	(2.2)
Number o Consolida	Domestic ted Companies Overseas Total	91 99 190	91 98 189	(1) (1)

Domestic: -

Overseas: +1[Corrugated containers in China], (1)[Forest plantation in China], (1) [Lumber in Myanmar]

2. Sales and Operating Profit by Segment [FY2019 Result] (consolidated)



(¥ billion)

						(# DIIIIOH)
	FY20	FY2018		019	Increase (I	Decrease)
	Net Sales	Operating Profit	Net Sales	Operating Profit	Net Sales	Operating Profit
Household & Industrial Materials	681.2	22.4	686.1	40.9	4.9	18.5
Functional Materials	224.1	18.4	214.7	15.4	(9.4)	(3.0)
Forest Resources & Environment Marketing	326.5	64.6	285.6	28.8	(40.9)	(35.8)
Printing & Communications Media	302.9	(4.8)	292.7	11.3	(10.2)	16.1
Others	16.3	9.6	28.7	9.7	12.4	0.1
Total	1,551.0	110.2	1,507.6	106.1	(43.4)	(4.1)

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

3. Analysis of Operating Profit by Segment (1) Household and Industrial Materials

Overseas ¥8.3 billion



FY2018

Net Sales Operating Profit

Pomestic¥14.1 billion

Y22.4 billion

Net Sales
Operating Profit

Verseas ¥40.9 billion

Pomestic¥32.5 billion

Overseas ¥8.4 billion

Increase (Decrease)

Operating Profit

From Domestic+¥18.4 billion

Overseas +¥0.1 billion

Domestic+¥18.4 billion

Sales&marketfactor +¥17.7 bil.

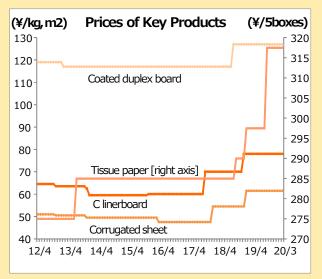
etc.

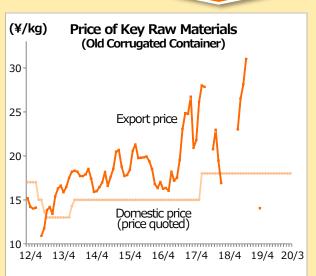
Overseas +¥0.1 billion

Sales&marketfactor (¥5.2 bil.)

Price difference in raw materials & fuels +¥4.0 bil.

etc.





Salasaf		FY2018			FY2019			Increase (Decrease)			
Sales of	~ \	Sales Volume	Unit Price	Sales Amount	Sales Volume 1,000 t (or)	Unit Price	Sales Amount	Sales Volume 1,000 t (or)	Year-on Year	Unit Price	Sales Amount
KeyProducts (*	`)	1,000 t (or) million m2 (or) million pcs	¥/kg(or) m2	¥ billion	million m2 (or) million pcs	¥/kg(or) m2	¥ billion	million m2 (or) million pcs	%	¥/kg(or) m2	¥ billion
Paperboard	Domestic	3,023	67.34	203.6	2,946	71.35	210.2	(77)	97.4%	4.01	6.6
Corrugated containers (million m2)	Domestic	2,956	64.25	189.9	2,968	67.32	199.8	12	100.4%	3.07	9.9
Disposable diapers for babies (million pcs)	Domestic& Overseas	1,178	-	-	1,170	-	_	(8)	99.3%	-	-

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

3. Analysis of Operating Profit by Segment (2) Functional Materials



FY2018

Net Sales

Operating Profit

¥224.1billion ¥18.4billion Oversess ¥6.5billion

Domestic ¥11.9 billion_

FY2019 **Net Sales Operating Profit** Domestic ¥10.8billion ¥214.7billion ¥15.4billion Overseas ¥4.6billion

Increase (Decrease) Operating Profit

Domestic (¥1.1 billion) ¥(3.0 billion) Oversess (¥1.9 billion)

Domestic (¥1.1 billion)

Sales & market factor (¥2.1 bil.)

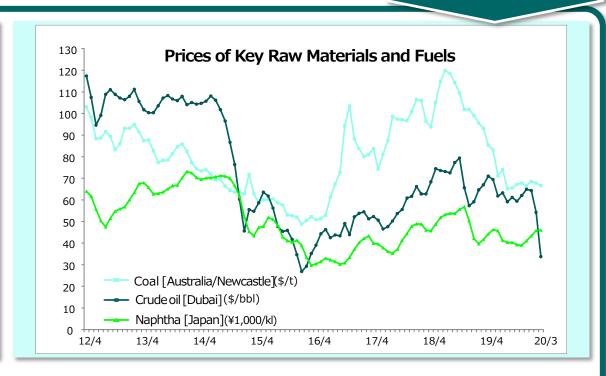
Price difference in +¥1.1 bil. raw materials & fuels

etc.

Overseas (¥1.9 billion)

Price difference in (¥1.2 bil.) raw materials & fuels

etc.



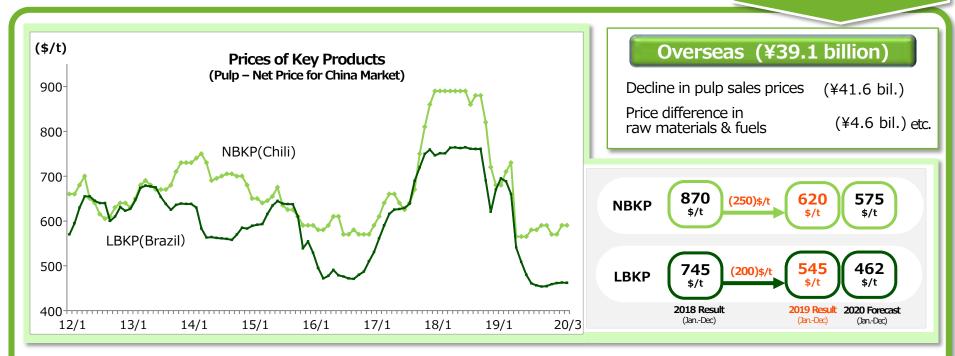
Salesof		FY2018			FY2019			Increase (Decrease)	
KeyProducts (*)	Sales Volume	Unit Price	Sales Amount	Sales Volume	Unit Price	Sales Amount	Sales Volume	Year-on Year	Unit Price	Sales Amount
reyrroddess ()	million m2	¥/m2	¥ billion	million m2	¥/m2	¥ billion	million m2	%	¥/m2	¥ billion
Thermal paper Domestic (million m2) Overseas		20.23	68.7	3,421	20.16	69.0	26	100.8%	(0.07)	0.3

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

3. Analysis of Operating Profit by Segment (3) Forest Resources and Environment Marketing



	FY2018			Increase (Decrease)					
Net Sales	Operat	ing Profit	Net Sales	Net Sales Operating Profit			Operating Profit		
¥326.5billion	¥64.6billion	Domestic ¥4.3 billion Overseas ¥60.3 billion	¥285.6billion	¥28.8billion	Domestic ¥7.6billion Overseas ¥21.2billion	¥(35.8 billion)	Domestic +¥3.3 billion Overseas (¥39.1 billio r		



Salesof			FY2018			FY2019			Increase (Decrease)	
		Sales Volume	Unit Price	Sales Amount	Sales Volume	Unit Price	Sales Amount	Sales Volume	Year-on Year	Unit Price	Sales Amount
Reylifoddes		1,000t (or) GWh	¥/kg	¥ billion	1,000t (or) GWh	¥/kg	¥ billion	1,000t (or) GWh	%	¥/kg	¥ billion
Market pulp	Domestic & Overseas	2,325	80.48	187.1	2,392	62.35	149.2	67	102.9%	(18.13)	(38.0)
Electric power (GWh)	Domestic	1,004	-	-	1,220	-	-	216	121.6%	-	-

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

3. Analysis of Operating Profit by Segment (4) Printing and Communications Media



FY2018

Net Sales

Operating Profit

Domestic ¥(6.2billion) ¥302.9 billion ¥(4.8 billion) Oversess ¥1.4 billion

FY2019

Net Sales

¥292.7 billion ¥11.3billion Overseas ¥1.7billion

Operating Profit Domestic **¥9.6billion**

Increase (Decrease)

Operating Profit

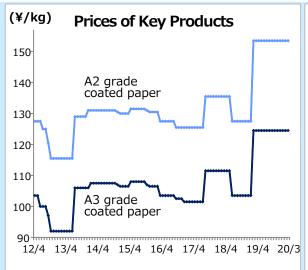
Domestic+¥15.8billion +16.1billion Oversess+¥0.3billion

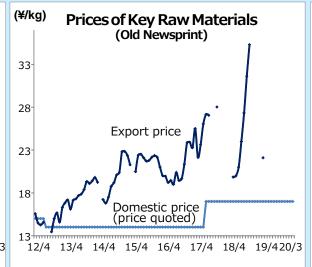
Domestic +¥15.8 billion

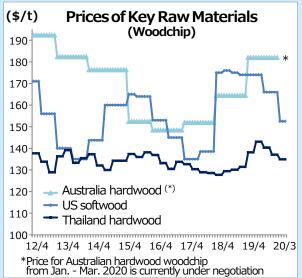
Sales& Price difference in raw materials& fuels +¥5.1 bil. etc.

Overseas +¥0.3 billion

Sales& marketfactor +¥3.5 bil. Price difference in raw materials & fuels (¥3.7 bil.) etc.







Salesof		FY2018			FY2019			Increase (Decrease)				
KeyProducts (*)		Sales Volume	Unit Price	Sales Amount	Sales Volume	Unit Price	Sales Amount	Sales Volume	Year-on Year	Unit Price	Sales Amount	
reyr roduces ()		1,000 t	¥/kg	¥ billion	1,000 t	¥/kg	¥ billion	1,000 t	%	¥/kg	¥ billion	
Newsprint, printing & communication paper	Domestic	2,348	104.15	244.6	2,151	111.93	240.7	(198)	91.6%	7.78	(3.8)	

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



II. FY2020 Financial Forecast

1. Financial Forecast for FY2020 (consolidated)



		FY2019	FY2020F	(¥ billion) Increase (Decrease)
Net	t Sales	1,507.6	1,400.0	(107.6)
Ор	erating Profit	106.1	90.0	(16.1)
	[Domestic Companies]	[70.0]	[62.1]	[(7.9)]
	[Overseas Companies]	[36.1]	[27.9]	[(8.2)]
Ord	dinary Profit	101.3	80.0	(21.3)
Pro Attril	fit butable to Owners of Parent	58.2	50.0	(8.2)
Depr	reciation	63.4	63.8	0.4
Over	seas Sales Ratio	29.9%	28.4%	(1.5%)
Avera	age Exchange Rate (¥/US\$)	108.7	107.0	(1.7)

^{*}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.

2. Preconditions for FY2020 Financial Forecast



◆Effects of the spread of the Coronavirus Disease 2019 (COVID-2019) on sales volume [year-on-year]

<Domestic>

	1st-half of FY2020	2nd-half of FY2020
Speciality paper	(12%)	(4%)
Newsprint Printing & communication paper	(14%) (17%)	(11%) (14%)

<Overseas>

	1st-half of FY2020	2nd-half of FY2020
Corrugated containers [Malaysia]	(8%)	(5%)
Printing paper[China]	(11%)	(10%)

◆Exchange rates, raw material & fuel prices

Exchange rates	to remain static at current revel
Woodchip	based on current contract
Recovered paper	static at current level
Coal	based on current contract
Heavy Oil	static at current level

◆ Effects of fluctuation on operating profit [per annum]

	-			
Exchange	[Japanese Yen]	approx. ¥0.34 billion with a fluctuation of US\$ by 1%		
	[Japanese feii]	(strong US\$ -)		
	[D:11 D17	approx. ¥0.45 billion with a fluctuation of US\$ by 1%		
rates	[Brazilian Real]	(strong US\$ +)		
	[Nav. Zaaland Dallan]	approx. ¥0.97 billion with a fluctuation of US\$ by 1%		
	[New Zealand Dollar]	(strong US\$ +)		
Price of pulp		approx. ¥2.28 billion with a fluctuation of US\$10/t		
		(high price +)		
Price of woodchip		approx. ±¥2.97 billion with a fluctuation of US\$10/BDt		
Price of recovered paper		approx. ±¥4.04 billion with a fluctuation of ¥1/kg		
Price of Dubai crude oil		approx. ±¥0.25 billion with a fluctuation of US\$1/bbl		
		(heavy oil, bunker, naphtha and others)		

3. Sales and Operating Profit by Segment [FY2020 Forecast] (consolidated)



				(¥ billion)		
	FY2019		FY2020F		Increase (Decrease)	
	Net Sales	Operating Profit	Net Sales	Operating Profit	Net Sales	Operating Profit
Household & Industrial Materials	686.1	40.9	667.0	37.0	(19.1)	(3.9)
Functional Materials	214.7	15.4	209.0	11.0	(5.7)	(4.4)
Forest Resources & Environment Marketing	285.6	28.8	259.0	22.0	(26.6)	(6.8)
Printing & Communications Media	292.7	11.3	243.0	12.0	(49.7)	0.7
Others	28.7	9.7	22.0	8.0	(6.7)	(1.7)
Total	1,507.6	106.1	1,400.0	90.0	(107.6)	(16.1)

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

4. Operating Profit by Segment



			(¥ billion)	
		FY2019	FY 2020F	
Household &	Net Sales	686.1	667.0	Ор
Industrial	Operating Profit	40.9	37.0	Pro
	[Domestic]	[32.5]	[29.2]	(¥3
Materials	[Overseas]	[8.4]	[7.8]	(∓ .
	Operating Profit Margin	6.0%	5.5%	
		FV2010	EV 2020E	
		FY2019	FY 2020F	
	Net Sales	214.7	209.0	Оре
Functional	Operating Profit	15.4	11.0	Pro
Materials	[Domestic]	[10.8]	[9.2]	(¥4
	[Overseas]	[4.6]	[1.8]	(+-
	Operating Profit Margin	7.2%	5.3%	
		FY2019	FY 2020F	
Forest Resources &	Net Sales	285.6	259.0	Оре
Environment	Operating Profit	28.8	22.0	Pro
	[Domestic]	[7.6]	[7.6]	
Marketing	[Overseas]	[21.2]	[14.4]	(¥ 6
	Operating Profit Margin	10.1%	8.5%	

Operating	◆Domestic(¥3.3 billion)
Profit	
(¥3.9 billion)	♦ Overseas (¥0.6 billion)

◆Domestic(¥1.6 billion) erating ofit 4.4 billion) ♦ Overseas (¥2.8 billion)

		L12019	F1 2020F
Forest Resources &	Net Sales	285.6	259.0
Environment	Operating Profit	28.8	22.0
	[Domestic]	[7.6]	[7.6]
Marketing	[Overseas]	[21.2]	[14.4]
	Operating Profit Margin	10.1%	8.5%

♦ Domestic±¥0 billion erating ofit 6.8 billion) ♦ Overseas (¥6.8 billion)

Printing &
Communications
Media
меаіа

	FY2019	FY 2020F
Net Sales	292.7	243.0
Operating Profit	11.3	12.0
[Domestic]	[9.6]	[8.1]
[Overseas]	[1.7]	[3.9]
Operating Profit Margin	3.9%	4.9%

◆Domestic (¥1.5 billion) Operating Profit +¥0.7 billion ♦ Overseas +¥2.2 billion

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5. Impact on Operating Profit from External Environment

(¥billion/year) Household **Forest Printing & Total Functional** Resources & Communi-& Materials cations **Industrial** Environment ◆Changes in exchange rates Media **Materials Marketing** Assumed exchange rates for FY2020 107.00 (3.6)Japanese Yer (JPY) JPY/USD **USD-based** transactions 5.90 **Brazilian Rea(BRL) BRL/USD** (USD stronger by 10%) 1.67 New Zealand Dollar (NZD) NZD/USD Household **Forest Printing & Total Functional** Communi-& Resources & **Materials Industrial Environment** cations **♦**Changes in pulp prices **Marketing** Media **Materials** Pulp sales & purchase (USD 10/t stronger)

+:Improve ():Worsen



III. Management Targets

1. Management Plans (1)Management Philosophy/Management Strategy



Management Philosophy ~Future Image of Oji Group~

Creation of **Innovative Value**

Contribution to the Future and the World

Harmony with **Nature and Society**

> **TBeyond** the Boundaries I

Management Strategy ~Fundamental Policies and Numerical Targets~





10.0%

Overseas Sales Ratio

40 % (Aim for 50% ASAP)

Net D/E Ratio

Status quo*

*FY2018 Result: 0.7



Market Capitalization: More than ¥1 trillion



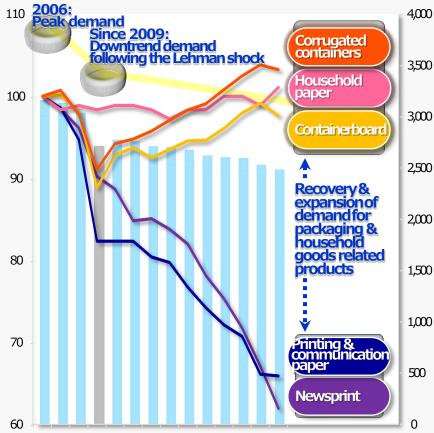
(2) Business Strategies for Targets – 1 Profitability Improvement of Domestic Business

OJI HOLDING

Streamline of existing operations & Enhancement & expansion of promising businesses

Downtrend demand of newsprint, printing & communication paper

Uptrend demand of certain products such as corrugated containers, etc.



06 07 08 09 10 11 12 13 14 15 16 17 18 19 Paper & paperboard demand Demand index by product (Year) *Not including corrugated (2006=100) (10,000 t)

Sources: Japan Paper Association – Statistics on Paper and Paperboard, Japan Corrugated Case Association – Production Volume of Corrugated Case **《Streamline of Operations》**

Permanent Shut

♦ February 2020

•Oji Paper/Tomioka Mill/#9 Machine

1st-half of FY2020

•Oji F-Tex/Ebetsu Mill/#1,4 Machine

·Oji Paper/Tomakomai Mill/#N-1 Machine 【Newsprint】

December 2021

Oji Materia/Nayoro Mill/#3 Machine

(Corrugating medium)

¥3,800 mil./yr.

(Printing & communication paper)

(Printing & communication paper,

Cost Reduction

specialty paper

Conversion/Relocation

- Shutdown in 1st-half of FY2020 & Startup in FY2021
 - •Oji Paper/Tomakomai Mill/#N-5 Machine
- September 2021
 - Oji Materia/Nayoro Mill/#2 Machine

(Relocation to Tomakomai, **Special linerboard)**

(Conversion: Newsprint → Containerboard)

《Enhancing & Expanding Promising Businesses》

- Packaging
- •JV paper liquid container business with ISHIZUKA GLASS
- Establishing a new plant in Funabashi-shi, Chiba (the Greater Tokyo Area)
- Offering environmentally-friendly next-generation packaging systems

Profit Improvement (FY2021)

¥500 mil./yr.

- Household & Consumer Products
- •JV household paper business with Mitsubishi Paper Mills (MPM)
- Establishing a new converting plant in Edogawa Mill (the Greater Tokyo Area)

etc.



(2) Business Strategies for Targets – 1 Profitability Improvement of Domestic Business

Strengthen business foundation through business alliances

(Business Alliances with Mitsubishi Paper Mills (MPM)) Usual JV household paper company MPM Oji Home Products Startup: April 2019

- Logistics cost reduction through acquiring the first operation base in the Tohoku Region
- **QJV biomass power generation company**MPM Oji Eco Energy
 - Startup: September 2019

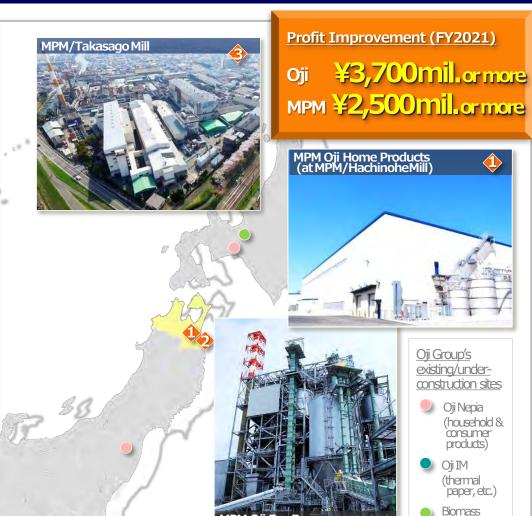
 Largest biomass power plant adal
 - Largest biomass power plant adapted to FIT in Japan
- Transfer & consolidation of production & sales of carbonless paper

From Oji Imaging Media (Oji IM)/Kanzaki Mill to MPM/Takasago Mill (scheduled in July 2020)

Oji : Enhancing productivity & competitiveness

MPM: Increasing market share & improving profitability

- Joint procurement of raw materials
- Mutual utilization of sales channels
- Mutual OEM supplies etc.



MPM Oji Eco Energy

power plants



(2) Business Strategies for Targets – 2 Expansion of Overseas Business

Organic expansion from existing operations & Creation of synergies among businesses as well as operations

《Organic Expansion from Existing Operations》

		-	SE Asia & India	China	Oceania	South America	Europe
Industrial	Containerboa	ard Machine extension	○ Malaysia/GSPP				
Materials	Corrugated containers	Plant expansion & establishment	8 operations in 6 countries	Oji Padkaging (Chongoing) Nantong Oji Filter	O NZ/Oji FS		
Household & Consumer	Disposable diapers	Own plant establishment, machine extension	Malaysia/OAHP, Indonesia/OIMP				
Products	Household paper	Base paper machine installation		Jiangsu Oji Paper			
Functional Materials	Thermal paper	Capacity enhancement				O Brazil/OPE	Germany/KANZAN
Forest Resources & Environment	Pulp	Capacity & competitiveness enhancement			NZ/Oji FS, PANPAC	O Brazil/Cenibra	
Marketing Business	Lumber processing	Competitiveness enhancement			NZ/PANPAC		

(Scheduled Investments)

◆ Containerboard: (GSPP, Malaysia) New machine with production capacity 450,000t/yr.

◆Thermal Paper: (OPE, Brazil) 3rd phase of capacity enhancement (+70,000t/yr.: double from current capacity)

Startup:

... in Apr. 2021

··· sequentially from Feb. 2021



(2) Business Strategies for Targets – 2 Expansion of Overseas Business

Ongoing investment project (i) Overseas packaging business





(2) Business Strategies for Targets – 2 Expansion of Overseas Business

Ongoing investment project (ii) Overseas packaging business





(2) Business Strategies for Targets – 2 Expansion of Overseas Business

Ongoing investment project (iii) Overseas packaging business





(2) Business Strategies for Targets – 2 Expansion of Overseas Business

Ongoing investment project (iv) Overseas disposable diaper business







(2) Business Strategies for Targets – 2 Expansion of Overseas Business

Ongoing investment project (v) Overseas household paper & thermal paper business





(2) Business Strategies for Achieving Targets – 3 Promotion of Innovation

Promotion of Innovation



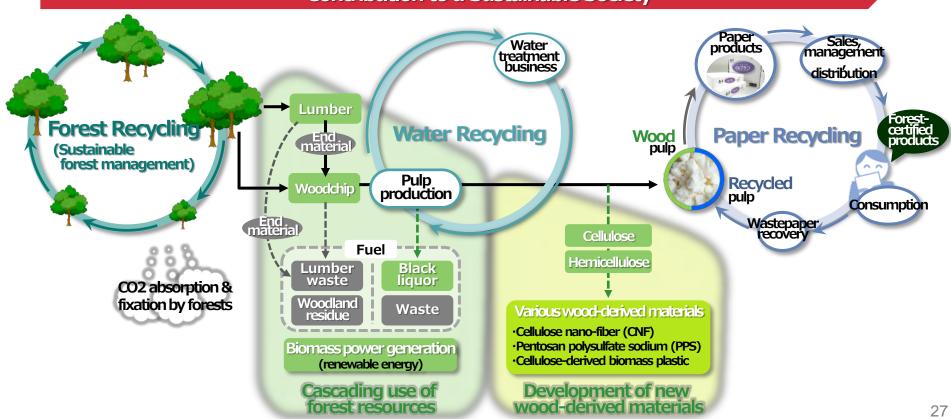
1. Management Plans (3) Sustainability Strategies



Resource recycling throughout the value chain



Contribution to a Sustainable Society



IV. Topics

1. Business Strategies



(1) Expansion of Domestic Packaging Business – 1 Enhancing & Expanding Promising Businesses DINGS

Paper Container Business

《Liquid container》

JV with ISHIZUKA GLASS (ISHIZUKA GLASS 60% Oji 40%) Startup: Sept. 2020 (scheduled)

Operation base: Fukusaki-cho, Kanzaki-gun, Hyogo

Oji Group

√Supply of laminated base paper





✓ Paper container manufacturing technologies

✓ Sales & maintenance of filling machine



- ◆ Building an integrated manufacturing system in Japan
- **◆**Expanding overseas in the future



Product lineup of ISHIZUKA GLASS



Corrugated Container Business

New plant in Tokyo Suburbs (Funabashi-shi)

Largest plant with leading-edge equipment in Japan

Redevelop an existing distribution base in Funabashi-shi, Chiba



20 million m²/month

Startup

July 2020 (scheduled)



- 1. Business Strategies
 - (1) Expansion of Domestic Packaging Business 2 Next Generation Packaging Solution HOLDINGS

Next Generation Packaging Solution "OJI FLEX PACK'AGE"

"One and Only" at OII

- Realization of automatic packaging of corrugated containers that are perfect size for products with fanfold corrugated container "RAKUDAN" and "Automatic Packaging System"
- ◆ 3 types of lineup for automatic packaging system:
 - (1) 3-sided variable full-auto system ··· full automation
 - (2) 3-sided variable semi-auto system
 - ··· flexible container designs
 - (3) Variable height system ··· handles random bottom areas

- ✓ Combine technologies & expertise in packaging materials & system developed at Oji Group
- √Flexibly respond to customer issues to propose a variety of packaging materials & system that ensure products are packed in perfect-sized containers

Offering total solutions

Reduction of packaging materials

Resolvina

labor shortages

Environmental measures

Reduction of delivery costs

Efficiency improvement

Packaging materials

Fanfold corrugated sheet "RAKUDAN"



Packaging system



3-sided variable full-auto system



3-sided variable semi-auto svstem



Variable height automatic sealing system

1. Business Strategies





Enhancing & expanding packaging business

SE Asia

Increase market share by:

- enhancing existing operationsexpanding into countries
- expanding into countries we haven't tapped into yet
- ◆Malaysia
 New containerboard
 machine
 - Startup: Apr. 2021 (scheduled)
- ◆ Indonesia ← New Entry New corrugated container plant

Startup: 2020 (scheduled) etc

Oceania

Offer higher quality products stably & efficiently by installing latest equipment

◆Christchurch (NZ)

New corrugated container
plant (relocation)

Startup: 1st-half of FY2021

(scheduled)

Ensure competitiveness by expanding the Total Packaging Business



India

Aggressively make investments to expand both production & sales in the rapidly growing market

◆ <u>New corrugated</u> <u>container plant</u>

Startup: Mar. 2020

China

Further improve competitiveness by building an optimal manufacturing system

- ◆ New filter plant (Nantong) Startup: Oct. 2020
 - (scheduled)
- New corrugated container plant (Chongqing)
 Startup: 2021 (scheduled)

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1. Business Strategies





Enhancement of production & supply systems in Japan

《MPM Oii Home Products》

Startup: Apr. 2019

Location: MPM/Hachinohe Mill

Strengthen competitiveness by reducing logistics costs, leveraging the first operation base in the Tohoku Region acquired



MPM Oji Home Products's paper machine

Sales within China to capture strong demand converting & shipping

Exported to Japan for



Jiangsu Oji Paper's base paper machine

《Base paper production in China → converting in Tokyo

Base paper Startup - Jul. 2020 (scheduled)

Location - China/Jiangsu Oji Paper

Startup - Aug. 2020 (scheduled) Converting

Location - Kanto Region/Edogawa Mill

Promote collaboration of Japan & overseas to enhance production & supply systems

♦ Offering nonwoven face masks

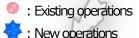
- ·Startup: Jun. 2020 (scheduled)
- Location: New Tac Kasei/Yamamoto Plant (Yamamoto-cho, Mitoyo-shi, Kagawa)
- Production capacity: Approx. 2 mil. pcs/month (scheduled)

♦Offering nonwoven fabric for medical gowns

- ·Startup: Jun. 2020 (scheduled)
- ·Location:
 - Oji Nepia/Personal Care Nagoya Plant (Oji-cho, Kasugai-shi, Aichi)
- Production capacity:

Approx. 80t/month (scheduled)

Nonwoven fabric for medical gowns





200

150

100

50 0

FY2018

FY2019

1. Business Strategies





Expanding both production & sales in growing markets in SE Asia and China

3.6% Malaysia 《Production expansion》 Jul. 2020 Startup of new tape-type machine 2020 Efficiency improvement through (scheduled) operation integration → Consider further machine expansion (Sales expansion) Increase exports to China & Vietnam Strengthen e-commerce (EC) sales Sample distribution at Genki! EC sales banne hospitals etc. (mil. pcs) Sales volume 450 Tape-type 400 +128% Pants-type 350 from FY2020 300 +130% 250

from FY2019

FY2020

(plan)



FY2021

(plan)



《Sales expansion》

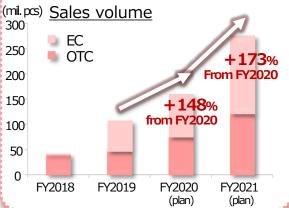
- Strengthen EC sales
- Active sales in rapidly growing markétš
- Strengthen over-thecounter (OTC) sales
- Acquiring new customers by increasing the # of distribution outlets
- Launch of Doraemon package in mid-price market (largest market in China) in May 2020











FY2021

(plan)

50

FY2018

FY2019

FY2020

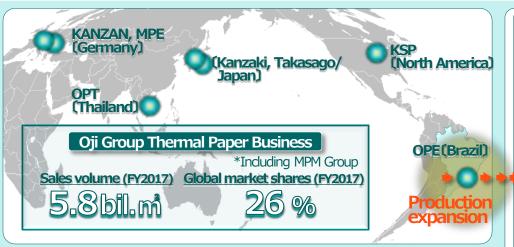
(plan)

^{*}Source: Euromonitor International Nappies, Diapers, Pants CAGR2020-2023

Business Strategies Global Strategy for Thermal Paper Business



Increasing global market share by production expansion



Production expansion at OPE (Brazil)

- ◆The 3rd phase of production expansion following the 1st (2014) and 2nd (2017)
- → sequential startup from February 2021



《Aim to maintain market share in Brazil and more in Latin America》







OPE Thermal paper base paper machine

2. Promotion of Innovation





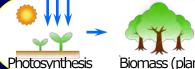
Develop packaging materials & technologies to address environmental issues such as marine plastic waste and global warming

Biomass plastic

(Cellulose-derived biomass plastic)
Adopted as a project commissioned by the Ministry of the Environment (Nov. 2019-Feb. 2022)

"One and Only" out of the control of

Plant absorbs CO2 generated



Biomass (plant) Biomass plastic raw material



Biomass plastic

Have developed biomass plastic by producing "glucose" from pulp cellulose, and started development of biomass plastic film

- Carbon neutral plastic that absorbs CO2 during plant growth
- Contribute to preservation of petroleum resources by replacing petroleum-derived plastic

(Biodegradable plastic & pulp composites)

Biodegradable plastic V Pulp



(Effects of compounding with pulp)

- ✓ More strength & rigidity of molded products
- ✓ More heat resistance
- ✓ Less time for injection molding

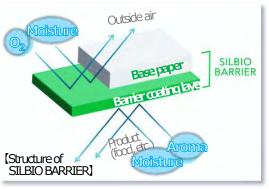
Expanded uses of biodegradable plastics



Plastic alternative paper materials

(Barrier paper "SILBIO BARRIER")

- ✓ Curtail deterioration and maintain aroma & moisture of contents
- ✓ Raw materials are carefully selected. Can be used in a wide range of applications from food to industrial materials



《Others》

Cup lid & packages made from pulp





2. Promotion of Innovation(2) Hemicellulose-derived Medical Products

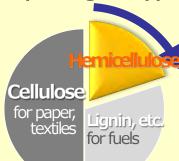


Promoting the use of hemicellulose in the medical & healthcare fields

"One and Only" ot

- Develop medical products from hemicellulose leveraging advanced utilization technologies of wood resources
- Can manufacture at low cost & in large quantities by collaborating with dissolving pulp process at Oji Paper/ Yonago Mill

Expanding the application of wood resources



- Cosmetic raw materials
- Functional food raw materials
- ·Active pharmaceutical ingredients

Therapeutic agents for Osteoarthritis (for horses, dogs)

Blood anticoagulants (halal-addressed products)



- ·Cosmetic raw materials
- ·Functional food raw materials

·Veterinary medicines



·Human medicines



Global market size 🕥



¥40.0 bil. + ¥1,000.0 bil.





Growth

April 2020 Foundation

2. Promotion of Innovation (3) Other



Creation of Innovative Value

Cellulose nano-fiber (CNF)

"One and Only" at OII

Original Phosphate Esterified CNF offers new functions in various applications

- ◆High transparency
- ◆ High viscosity & thixotropy
- ◆High strength & elasticity ◆High thermal dimensional stability

Joint development with users of more than 100 companies in Japan & overseas in a wide range of fields for practical application

《Functional additives》



- **◆**Cosmetics
- Paints
- ◆Concrete pump primer

《Composites》



- ♦ Resin/rubber
- **◆**Concrete



Leveraging the strengths of Phosphate Esterified CNF to accelerate application development & commercialization in a wide range of fields to make it a new business pillar

Cell culture substrates for controlled cell orientation

OJI's original technology

Fabricate surface nanostructures of several hundred nm~several um in size

"Nano Dot Array" De Can be used in a variety of fields, including life sciences & medical care, etc.

Cell culture substrate for controlled cell orientation "ND Cell Aligner Dish"

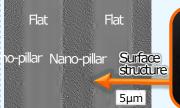
Realization of parallel stripe structure with alternating nano-pillars & flats



Reproduce conditions similar to those in vivo:

utilized in regenerative medicine research & development, such as culture of iPS cell-derived cardiomyocytes

Dish type culture vessel



Parallel stripe structure with alternating nano-pillars & flats



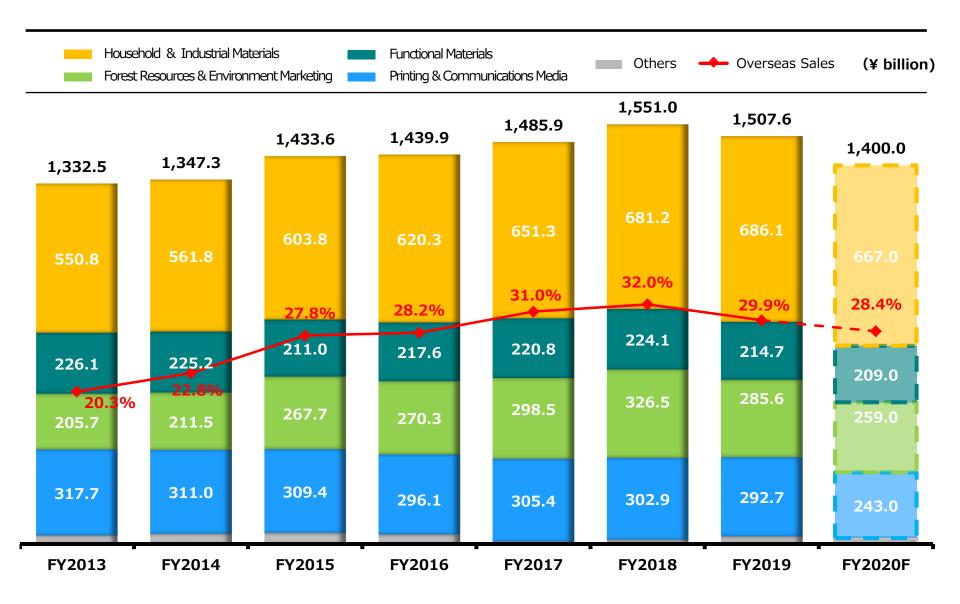
Culture of iPS cellderived cardiomyocytes



« Reference Materials »

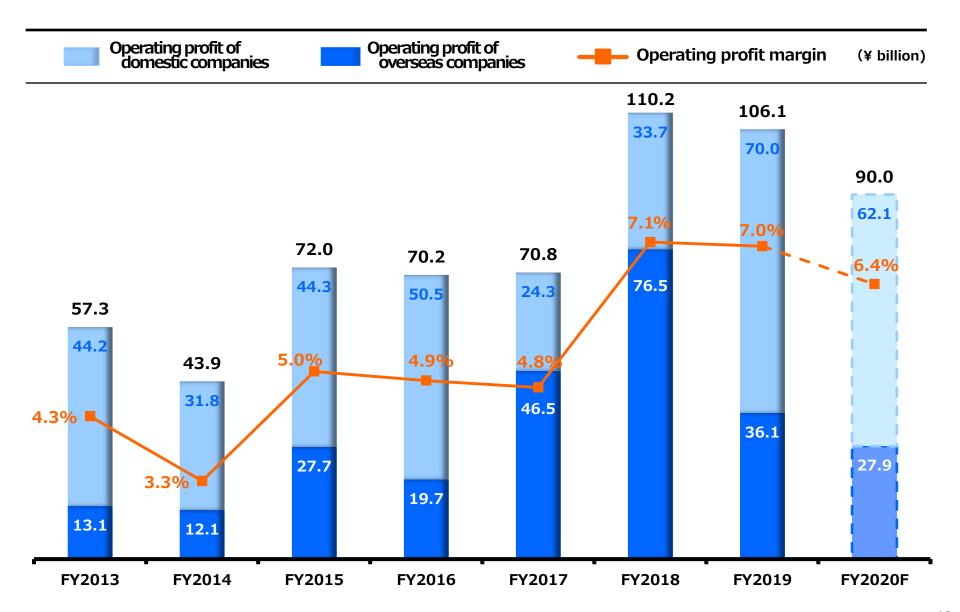
Trends of Net Sales by Segment (consolidated)





Trends of Operating Profit (consolidated)

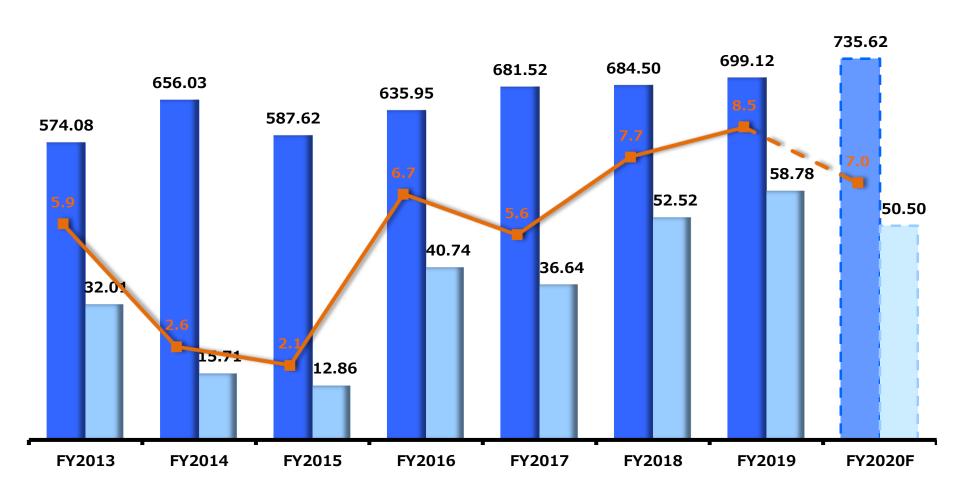




Trends of Return on Equity (ROE)



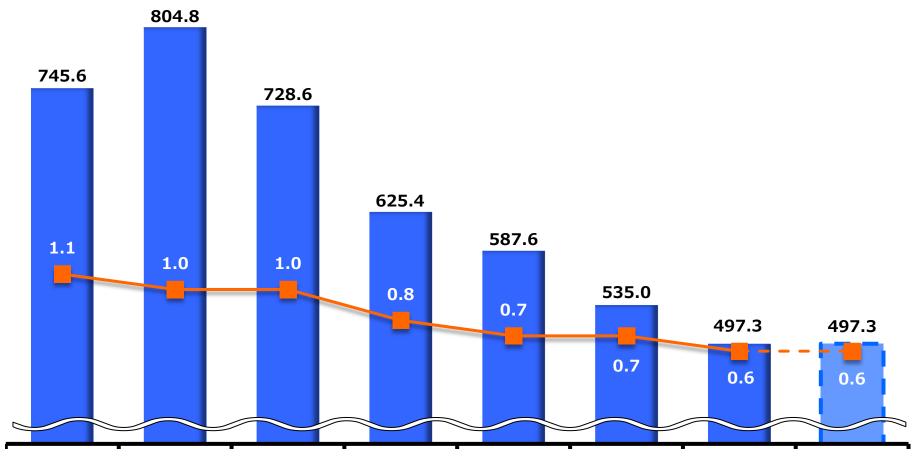




Trends of Net Interest-bearing Debt (consolidated)





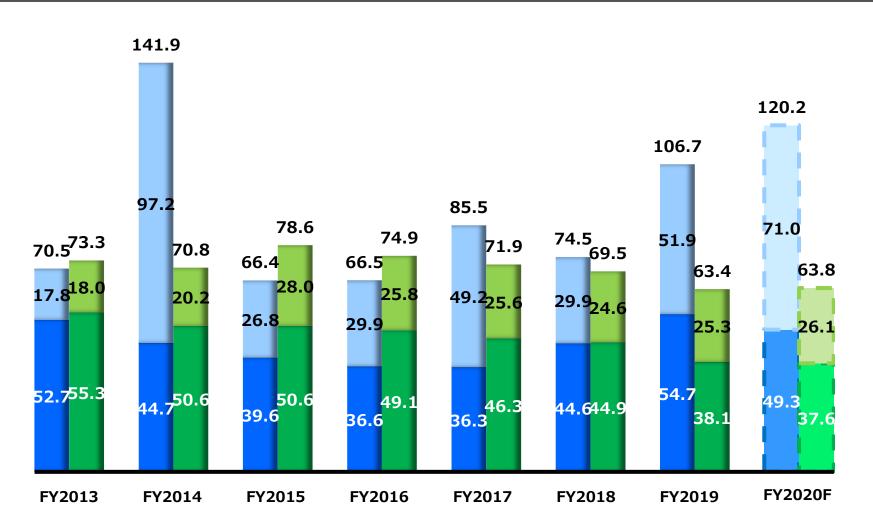


Mar.31.2014 Mar.31.2015 Mar.31.2016 Mar.31.2017 Mar.31.2018 Mar.31.2019 Mar.31.2020 Mar.31.2021F

Trends of CAPEX / Depreciation (consolidated)

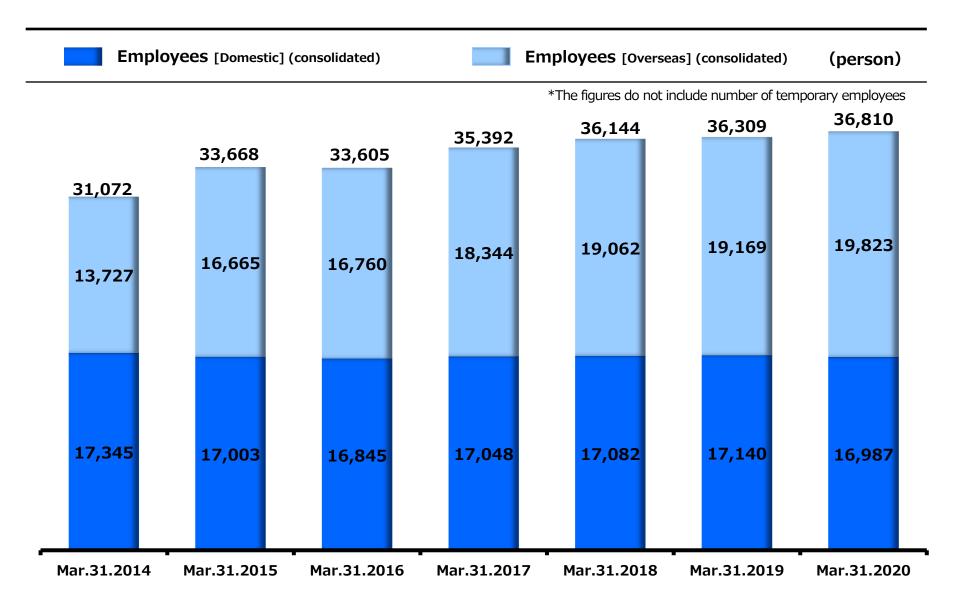






History of the Number of Employees (consolidated)





FY2019 Industry Demand



(1,000t)

					. , ,
Domestic Shipments		Custom Cleared Imports *1		Total	
Υ	ear-on-Year		Year-on-Year	Υ	'ear-on-Year
9,044	97.6%	43	85.4%	9,087	97.5%
1,515	95.6%	242	104.1%	1,757	96.7%
640	96.7%	25	74.0%	665	95.6%
11,200	97.2%	310	97.9%	11,509	97.3%
1,849	103.7%	235	128.1%*2	2,085	106.0%
687	96.0%	7	110.4%	695	96.1%
2,349	92.3%	2	82.7%	2,351	92.3%
6,642	93.1%	973	137.9%	7,615	97.1%
683	95.2%	15	85.4%	697	95.0%
12,210	94.7%	1,232	134.6%	13,442	97.3%
23,410	95.9%	1,542	125.2%	24,952	97.3%
					(million m)
14,336	99.6%			14,336	99.6%
	9,044 1,515 640 11,200 1,849 687 2,349 6,642 683 12,210	Year-on-Year 9,044 97.6% 1,515 95.6% 640 96.7% 11,200 97.2% 1,849 103.7% 687 96.0% 2,349 92.3% 6,642 93.1% 683 95.2% 12,210 94.7% 23,410 95.9%	Year-on-Year 9,044 97.6% 43 1,515 95.6% 242 640 96.7% 25 11,200 97.2% 310 1,849 103.7% 235 687 96.0% 7 2,349 92.3% 2 6,642 93.1% 973 683 95.2% 15 12,210 94.7% 1,232	Year-on-Year Year-on-Year 9,044 97.6% 43 85.4% 1,515 95.6% 242 104.1% 640 96.7% 25 74.0% 11,200 97.2% 310 97.9% 1,849 103.7% 235 128.1%*2 687 96.0% 7 110.4% 2,349 92.3% 2 82.7% 6,642 93.1% 973 137.9% 683 95.2% 15 85.4% 12,210 94.7% 1,232 134.6% 23,410 95.9% 1,542 125.2%	Year-on-Year Year-on-Year Year-on-Year 9,044 97.6% 43 85.4% 9,087 1,515 95.6% 242 104.1% 1,757 640 96.7% 25 74.0% 665 11,200 97.2% 310 97.9% 11,509 1,849 103.7% 235 128.1%*2 2,085 687 96.0% 7 110.4% 695 2,349 92.3% 2 82.7% 2,351 6,642 93.1% 973 137.9% 7,615 683 95.2% 15 85.4% 697 12,210 94.7% 1,232 134.6% 13,442 23,410 95.9% 1,542 125.2% 24,952

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 2019 - March 2020(preliminary)

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

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