

FY2020.03 - FY2022.03 (3 years)

May 28, 2019 Mitsubishi Paper Mills Limited



Second Mid-Term Management Plan Review

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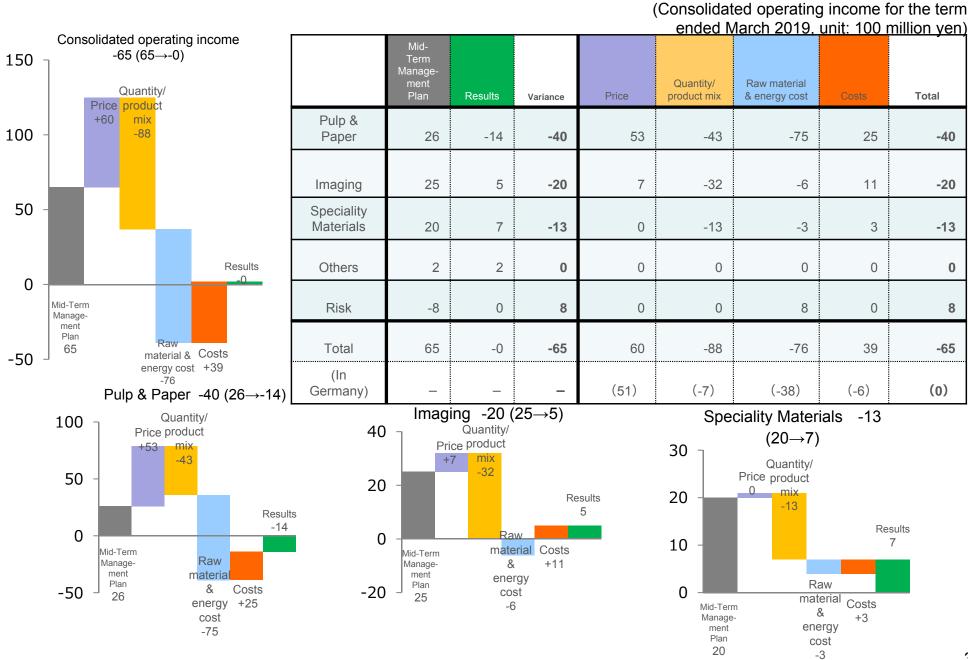
The period of the Second Mid-Term Management Plan

(Unit: 100 Million Yen)

	2016/3 Result	2017/3 Result	2018/3 Result	2019/3 Result (a)	2019/3 Plan (b)	Variance (a - b)
Sales	2,163	2,020	2,015	2,040	2,300	-260
Operating income	39	43	18	-0	65	-65
Ordinary income	22	27	7	-9	45	-54
Interest-bearing liabilities	1,388	1,257	1,193	1,046	1,250	204 decrease
D/E ratio	2.8	2.3	2.0	1.6	2.3	0.7 improvement
Employee	3,697	3,734	3,723	3,668	-	-

Second Mid-Term Management Plan: Factors of Change in Operating Income (Compared to Mid-Term Plan Goals)





Second Mid-Term Management Plan: The Results of Initiatives for Major Themes (Outline)



1 Structural Reform of Printing Paper Business

- A steep rise of raw material & energy cost
- The quantity/product mix worsened due to the decline in demand.
- We stopped the operation of the paper machines No. 4 in the Hachinohe Mill.
- We revised the prices of printing paper.
- > We adopted the transportation adjustment payments system.
- > The operation in Germany secured a certain level of profits.

2 Improving Profit Base

- Our alliance with Fujifilm consumed time to achieve high quality base paper and couldn't achieve the planned targets.
- Sales expansion for thermo rewrite and tape base paper targeting overseas were healthy.

3 Developing New Businesses

- Collaboration with Oji Group is proceeding steadily to inaugurate the biomass power generation business and household and consumer paper business.
- We are installing new equipment to establish the functional film business, and we are continuing the cultivation of the IJ transfer paper market.
- A steady growth of the water treatment membrane supporting bodies, for products related to non-woven fabrics

4 Strengthening Business Foundation and Financial Ground That will Support the Group's Earning Power

- Streamlining of business operation by integrating the accounting departments in the group, unifying fund procurement, etc.
- > Dealing with personnel affairs with the new operation base
- Achievement of the targeted decrease in interest-bearing liabilities and D/E ratio
- Reduction of labor costs by soliciting voluntary retirement

Second Mid-Term Management Plan: Key Investment Performance 1/2



Household and Consumer Paper Business

(Printing Paper Business)

MPM Oji Home Products Co., Ltd.

(Financing: 70% from Mitsubishi Paper Mills and 30% from Oji Nepia)

- Product type: Tissue paper and toilet paper
- Production volume: Approx. 18,000 tons per year
- Investment amount: Approx. 6 billion yen



Kyoto's new coating machine

(Imaging Business)

- Product type: Functional films (Electronics-related products, etc.)
- · Sales: Approx. 2 billion yen
- Investment amount: Approx. 1.5 billion yen



Inclined-wire paper machines

(Speciality Materials Business)

- Product type: Inorganic fiber paper, paper wiper, synthetic fiber paper
- Installed in Fuji factory, KJ Specialty Paper Co., Ltd.



Second Mid-Term Management Plan: Key Investment Performance 2/2



Biomass power generation business

MPM Oji Eco Energy Co., Ltd.

(Financing: 45% from Mitsubishi Paper Mills and 55% from Oji Green Resources)

- Production Capacity: Approx. 75,000kW (Power generation capacity)
- Sales: Approx. 11 billion yen per year
- Investment amount: Approx. 24 billion yen





The Capital and Business Alliance Agreement with Oji Holdings

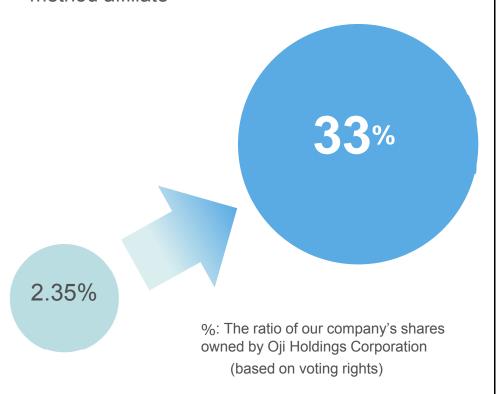


Second Mid-Term Management Plan

Capital alliance

Oji Holdings holds 33% of our company's shares

⇒ Our company became Oji Holdings' equitymethod affiliate



New Mid-Term Management Plan

Business alliance

Broadening and cementing of business alliances

Biomass power generation business

Household and consumer paper business

Communication paper field



Synergy encompassing all business fields



Achieve a synergy effect of 2.5 billion yen or more by the final year of the plan

- Equipment investments for joint venture businesses, etc.
- Reducing the costs for raw material & energy
 - Reducing the supply and logistics costs
- Reducing the chip procurement and logistics costs
 - · Streamlining of production system, etc.



Period

FY 2020 to FY 2022 (3 years)

Basic Principles

Strengthening and diversifying the business base for a new stage

Key strategies

- 1 To establish a robust management base through the alliance with Oji Group
- 2 To make structural reforms and enrich existing businesses
- To diversify the business base by fostering new profit pillars

Management Targets Value of the New Mid-Term Management Plan

(Unit: 100 million yen)

improvement

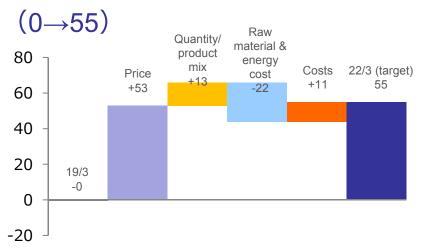
Targets of the New Mid-Term Management Plan



Management targets value

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	2019/3 Result (a)	2022/3 Plan (b)	(b) - (a)
Sales	2,040	2,200	+160
Operating income	-0	55	+55
Ordinary income	-9	60	+69
Interest- bearing liabilities	1,046	980	66 decrease
D/E ratio	1.6	1.3	0.3

Change in operating income +55



Reference

$$$1 = $110$$

Crude oil price in Dubai is \$65 per barrel

Management Targets Value of the New Mid-Term Management Plan (for Each Segment)



Management targets value (for each segment)

Sales	2019/3 Result (c)	2022/3 Plan (d)	(d) - (c)
Pulp & Paper	1,568	1,640	+72
Imaging	353	395	+42
Speciality Materials	175	220	+45
Others	148	155	+7
Adjustment	-204	-210	-6
Total	2,040	2,200	+160

Operating income	2019/3 Result (e)	2022/3 Plan (f)	(f) - (e)
Pulp & Paper	-14	24	+38
Imaging	5	10	+5
Speciality Materials	7	18	+11
Others	3	4	+1
Adjustment	-1	-1	0
Total	-0	55	+55

Investment Plan

Approval Base (Unit: 100 million yen)

Investment plan	3 years for mid-term plan
Strategic investment	100
Investment in maintenance and improvement	150
Total	250

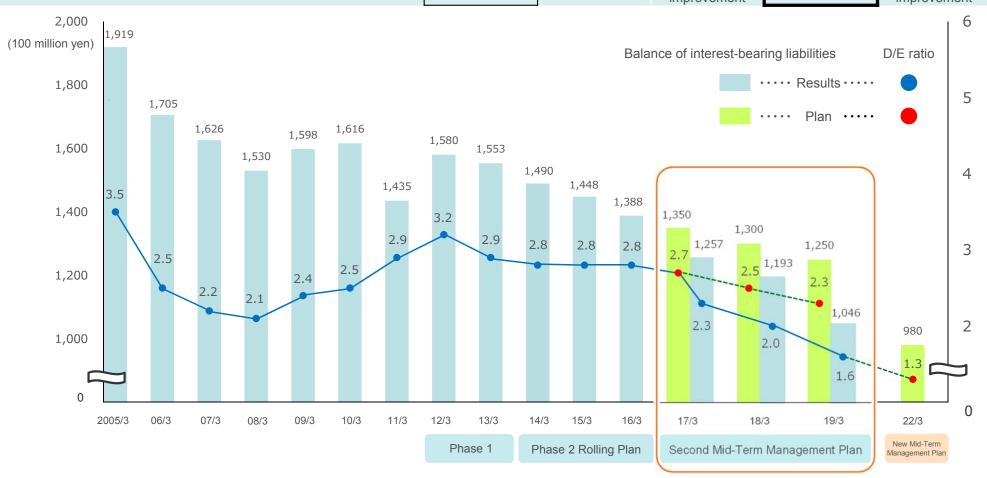
Main content of strategic investment

- Hachinohe: To improve the efficiency of the production facilities
- · Hachinohe : Handling new products
- · Kitakami: Handling new products
- Takasago: Installing new non-woven fabrics machines, etc.

Strengthen Financial Ground



	2016/3	2017/3	2018/3	2019/3	2019/3	Second Mid-term Plan's	2022/3	New Mid-term Plan's
	Result	Result	Result	Mid-term Plan Targets	Result	Improved Results	New Mid-term Plan Targets	Improvement Target
Interest- bearing liabilities	138.8 billion yen	125.7 billion yen	119.3 billion yen	125 billion yen	104.6 billion yen	20.4 billion yen reduction	98 billion yen	6.6 billion yen reduction
D/E ratio	2.8	2.3	2.0	2.3	1.6	0.7 improvement	1.3	0.3 improvement



To Establish a Robust Management Base Through the Alliance with Oji Group 1/2



Broadening and cementing of the effect of the capital and business alliances with Oji Group

(1) Basic strategy

- We aim to enhance our competitiveness by rapidly improving efficiency and cutting down costs by building strong cooperative relationships in all business fields.
- We will stabilize the management base and reduce interest-bearing liabilities further by strengthening the financial ground.

Indirect divisions Sales R&D All business fields Raw materials procurement Capital investment Engineering

(2) Goal

- •The goal of the business alliance by the final year of the plan (the term ending March 2022) is to achieve an operating income of 2.5 billion yen or more.
- To strengthen the business base by expanding the alliances in multiple businesses and enhancing synergistic effects.
- To strengthen the financial ground (interest-bearing liabilities are 100 billion yen or less; D/E ratio is 1.3.)

To Establish a Robust Management Base Through the Alliance with Oji Group 2/2



 Stabilizing the profitability of the Printing Paper Business

(1) Basic strategy

- Early exertion of the effect of the alliance with Oji Group
- Marketing that prioritizes profit
- Changing the product lines

(2) Major policies

- •To mutually strengthen OEM
- •To change the sales policies of Mitsubishi Paper Sales Co., Ltd.

(Shift to the distributor of Oji Paper Co., Ltd. in January this year)

- •To reduce procurement and logistics costs including mutual utilization of warehouses and logistics systems.
- •To establish a production system according to the demand trend and improve production efficiency.
- •To reduce costs for buying raw material & energy.



Manufacturing facilities of household and consumer paper (above) and products (below)





To Make Structural Reforms and Enrich Existing Businesses 1/2



To make structural reforms and enrich Imaging Businesses

(1) Basic strategy

- To expand our alliance with Fujifilm further
- To secure profit from the maturing existing products by actively expanding into overseas markets

To establish new

business

To secure profit from

Further expansion of alliances

existing products

(2) Major policies

- To cement our alliance with Fujifilm to increase the volume of base paper
- To expand the application scope of ink-jet paper and promote sales in emerging economies
- To expand sales of flexographic and screen printing market in Asia



Kyoto's new coating machine

To Make Structural Reforms and Enrich Existing Businesses 2/2



To make structural reforms and enrich the Speciality Materials Business

(1) Basic strategy

- To expand sales of non-woven-fabrics-related products and install more paper machines
- To expand sales in Asian and European markets

(2) Major policies

- To increase sales of base materials for RO membrane, MBR membrane, and Olefin membrane
- To supply battery separators to Beijing National Battery Technology Co., Ltd. on a full-scale basis
- To expand sales of decorative sheet base paper in Southeast Asia
- To expand sales of tape base paper in Europe
- To make an early launch of new products manufactured by the new inclined-wire paper machines



Water treatment element



China national standards filter evaluation device (Installed in Chinese subsidiaries)

To Diversify the Business Base by Fostering New Profit Pillars 1/3



The new businesses we are preparing for industrialization (Imaging)

Domain	Possible applications	Features	Goals during the Mid-Term Plan
Materials for the electronics industry	Dry film resist products	 High chemical resistance High resolution The etching of difficult-to-process insulating resin is possible. 	 To expand the lineup of dry film resists and handle custom orders To launch the system for processing advanced insulating materials
Electro- conductive films	Touch panel	Silver mesh films that are compatible with large touch panels	
IJ transfer paper	Dye printed textile	The newly developed IJ transfer paper for textile	 To expand the sales of sublimation transfer paper (for polyester fabric) To commercialize thermo-compressed transfer paper (for cotton and nylon)

To Diversify the Business Base by Fostering New Profit Pillars 2/3



• The new businesses we are preparing for industrialization (Speciality Materials)

Domain	Possible applications	Features	Goals during the Mid-Term Plan
Carbon nanotube related	Electro-conductive paint	 High electro-conductivity High heat generating High transparency 	•To handle carbon nanotube dispersion liquid, paint and film for preventing electrostatic buildup and for heat generation
Thin film materials shielding electromagnetic waves	Electro-conductive non-woven fabric	 ➤ Extremely thin shielding material of 10µm thickness ➤ High-strength and high shielding properties ➤ Superior applicability in electronic circuit boards 	•To make base material and launch products with electro-conductive non-woven fabrics
Recycled carbon fiber non-woven fabric "Carboplas Ripro"	Non-woven sheet	 Proactive use of recycled materials Uniformity on par with virgin materials Conductivity and shielding properties 	•To develop acoustic diaphragms, heating elements, friction materials, electromagnetic wave shielding materials, reinforcing materials for CFRP, etc.

To Diversify the Business Base by Fostering New Profit Pillars 3/3



Plastic replacement business

Domain	Possible applications	Features	Goals during the Mid-Term Plan
Barrier paper	Food package	 It combines barrier property, heat sealability, etc. that are required for food packaging with coated paper only A paper material that has defibering properties, which make it biodegradable and recyclable 	(It has been successfully introduced in Germany and has been adopted by many leading food manufacturers in Europe, and a development project is ongoing to introduce it to multiple global companies.) • To start the expansion into the Asian region including Japan in the first half of this term • To plan domestic production
Bleached kraft paper	Paper bags, etc.	➤ A bleached kraft paper that takes advantage of the manufacturing technologies we've been cultivating over many years; gives it superior suitability for printing and bag manufacturing	 To expand sales as bleached kraft paper in the Asia region including Japan To develop high added value products such as barrier paper based on the bleached kraft paper

The statements concerning expected numbers and business forecasts in this document have been prepared based on predictions of the economic environment in the future and information available at the present point in time. The actual numbers in our financial results and performance in the future may differ.