Overview of Financial Results for First Six Months of Fiscal Year 2023 (ending March 31, 2024) Briefing materials

DNP

未来のあたりまえをつくる。

November 15, 2023 Dai Nippon Printing, Co., Ltd.

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1. Overview of Financial Results

for First Six Months of Fiscal Year 2023 (ending March 31, 2024)

[Overview of Financial Results for First Six Months of FY2023]

	First Six Months FY2022	First Six Months FY2023	Year-on- year Change	Earnings Forecast for FY2023	Rate of progress
Sales	668.4	693.7	+3.8%	1,410.0	49.2%
Operating Income	27.5	27.5	-0.2%	67.0	41.1%
Ordinary Income	36.7	37.4	+2.1%	78.0	48.0%
Net Income Attributable to Parent Company Shareholders	27.9	76.2	+172.9%	88.0	86.6%

Capital Expenditures	23.7	29.2	+23.4%	76.0	38.5%
R&D Expenditures	16.2	17.7	+9.4%	34.0	52.3%
Depreciation	24.3	26.2	+8.0%	54.0	48.7%

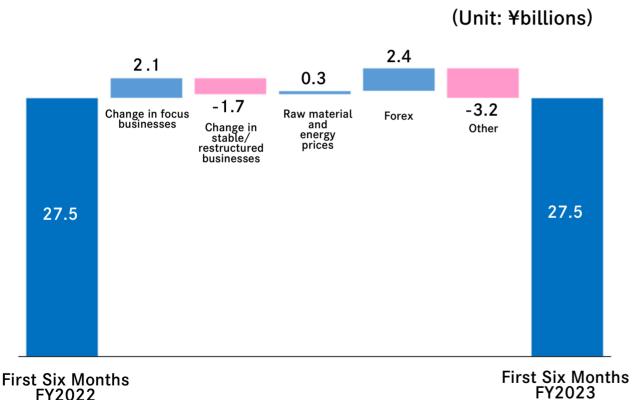
(Unit: ¥billions)

Overview

- We accelerated creation of new value, primarily in focus business areas, resulting in net sales growing 3.8% year on year
- The Digital Interfaces and other focus businesses began to perform well from the beginning of the first half, and we succeeded in maintaining operating income at the previous-year level
- Due to higher profits at affiliates accounted for using the equity method, ordinary income rose year on year

[Overview of Financial Results for First Six Months of FY2023] Change in Operating Income





Overview

- In focus businesses, despite the impact of the market deceleration in Semiconductors, demand for display components recovered and battery pouches for IT and automotive use also recorded growth
- Stable businesses saw strong demand, but were impacted by customer inventory corrections, etc. for some products
- In restructured businesses, the decline in the publishing market continued, and demand for construction materials was also weak
- The accelerating depreciation of the yen also contributed to the positive impact of forex

[Overview of Financial Results for First Six Months of FY2023] Overview of Focus and Stable Businesses



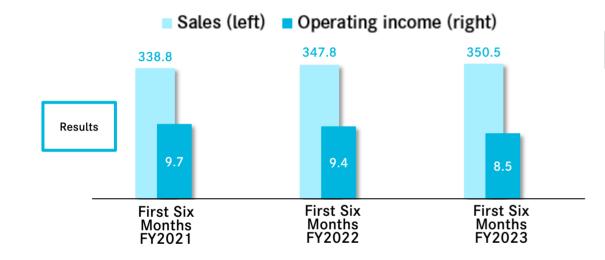
		First Six Months FY2022	First Six Months FY2023	Overview (Arrow indicates sales relative to previous y				
	Segment Sales	347.8	350.5	Imaging communication	�	Strong performance from materials for printing photographs, primarily in European and Asian markets		
Smart Communication	Segment		8.5	Secure information	\diamond	In addition to contribution from large BPO project, dual interface cards' grew in the IC card business		
	Operating Income	9.4		Content & XR communication	\diamond	Strengthened XR communication business by making Hacosco Inc., a group company		
	Segment Sales	217.1	231.7	Industrial high-performance materials	�	In addition to battery pouches growing for both automotive and IT equipment applications, photovoltaic module components also performed well		
Life and Healthcare	Segment Operating Income	2.8	5.1	Mobility	\diamond	Began selling exterior decorative materials in addition to interior decorative materials		
				Medical & healthcare		Made CMIC CMO Co., Ltd. a group company in order to work together with a focus on integrated manufacturing from APIs to formulation, as well as high value-added pharmaceutical development		
	Segment Sales	104.4	112.6	Optical film	\diamond	Recorded increase after previous fiscal year's inventory corrections in the overall supply chain ran their course		
Electronics	Segment Operating Income	25.7	25.0	Metal masks used for manufacturing organic OLED displays	\diamond	Steady increases against the background of expanded adoption of OLEDs for smartphones		
				Semiconductors	\mathbf{r}	Lead frames, etc. for semiconductor packages decreased due to the impact of the market slowdown		

* Cards with two interfaces on one chip (contact and contactless)

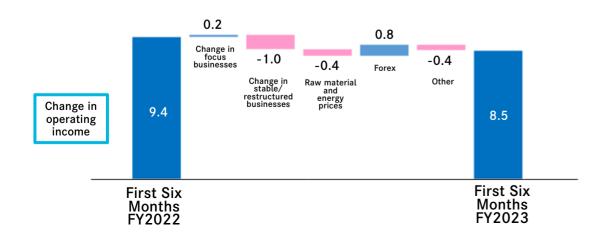
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[Overview of Financial Results for First Six Months of FY2023] Results by Segment





Smart Communication



Overview

- In the stable businesses, secure information performed well
- Demand in imaging communication was also strong, but profits were affected by inventory corrections, etc. for some products
- In restructured businesses, the market for magazines and other paper media continue to contract

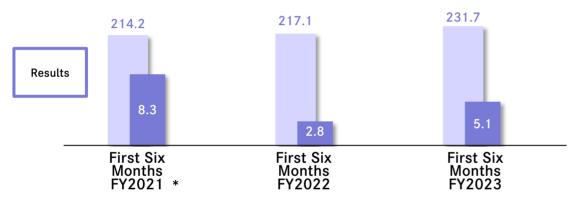
[Overview of Financial Results for First Six Months of FY2023] Results by Segment

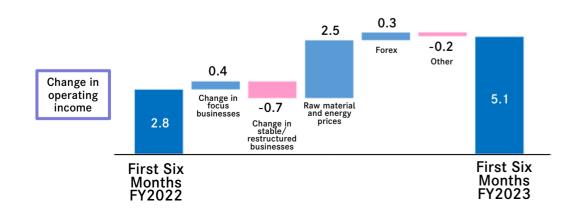


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Life and Healthcare

Sales (left)	Operating income	(right)
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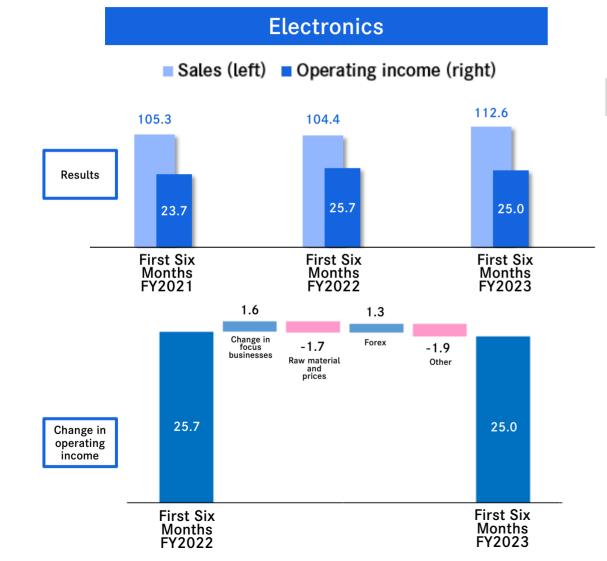
Overview

- In focus businesses, despite functional films decreasing year on year, battery pouches recovered for both automotive and IT equipment applications
- In the Packaging and Living Spaces businesses, we focused on high valueadded products and worked to reform the business portfolio
- CMIC CMO Co., Ltd. became a consolidated subsidiary in the first quarter of the current fiscal year

*FY2021 sales and operating income for "Life and Healthcare" display the total of the former "Lifestyle and Industrial Supplies" and "Beverages"

[Overview of Financial Results for First Six Months of FY2023] Results by Segment





Overview

- Optical film increased due to the recovery in demand for display components
- Metal masks for manufacturing OLED displays were strong, following an increase in the adoption rate for smartphones
- Despite strength in photomasks for semiconductors, lead frames, etc. for semiconductor packages decreased

[Overview of Financial Results for First Six Months of FY2023] Full-year Earnings Forecast



- > Maintained operating income in the first half at previous-year level
- > Expect growth in the third quarter and beyond, centered on digital interfaces and other focus businesses
- > No change to our full-year FY2023 earnings forecast at this time

(Unit: ¥billions)

	First quarter		Second	quarter	Third/Fourth quarters Full year			year
	FY2022	FY2023	FY2022	FY2023	FY2022	FY2023	FY2022	FY2023 earnings forecast
Sales	334.4	345.0	334.0	348.6	704.7	716.2	1,373.2	1,410.0
Operating Income	16.9	13.2	10.6	14.2	33.6	39.4	61.2	67.0
Ordinary Income	22.6	19.3	14.0	18.0	46.9	40.5	83.6	78.0
Net Income Attributable to Parent Company Shareholders	15.7	58.0	12.1	18.1	57.7	11.7	85.6	88.0

Change in operating income	-	-21.5%	-	+33.5%	-	+17.3%	-	+9.4%
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2. Medium-term Management Plan Progress

[Medium- to Long-term Direction]

DNP

Initiatives Aimed at Realization of the Vision

	Business Strategy	 Realize growth through concentrated investment of 260 yen or more (over the 5 years from FY2023 to FY2027 business areas Transform business portfolio including restructured business) in focus	DNP Group's vision for revenue and capital structure Operating income	
	Financial Strategy	 Reduce strategic shareholdings to less than 10% of net Plan to acquire treasury shares valued at 300 billion ye improve capital efficiency (5 years from FY2023 to FY2027) 		130 billion yen or more (Record operating income:120.6 billion yen) Equity capital 1 trillion yen	
	Non-financial Strategy	 Expand investment in people based on Human Capital Enhance intellectual capital utilizing DNP's unique strenexternal partnerships Contribute to the realization of a decarbonized society, recycling-oriented society and a society in harmony with 	ngths and a	roe 10%	
By impl	ementing	Reinforcing human capital Enhancing intellectual capital the above initiatives and also expan	Environmental initiatives ding disclos		Integrated Report 2023 p.9

we will expedite achieving a PBR of more than 1.0X

[Medium-term Management Plan - Business Strategy] Investment in Focus Business Areas, Etc.



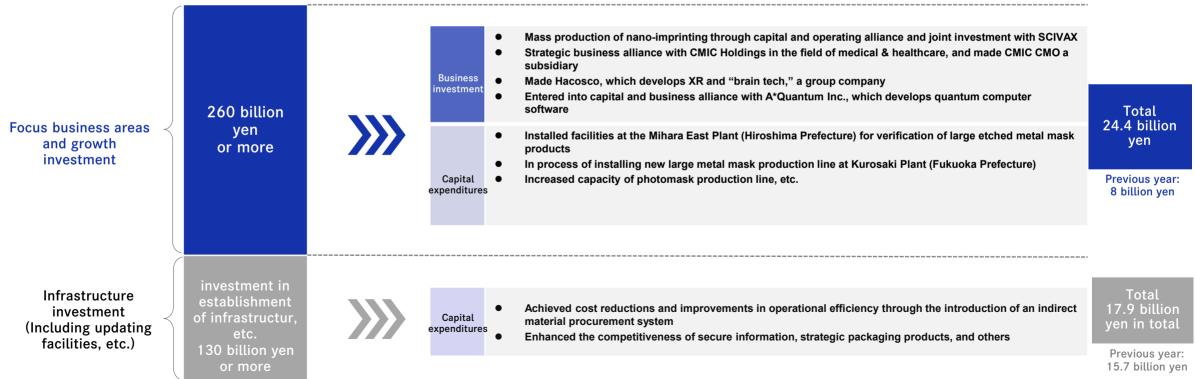
Growth investment and infrastructure development investment:

390 billion yen or more (cumulative amount for FY2023-FY2027)

Promote capital investment, global expansion and consideration of external alliances centered on focus business areas.

FY2023 to FY2027

Main items of investment in 1H FY2023



[Medium-term Management Plan - Business Strategy] Refinement and Acceleration of Global Rollout of DNP's Unique Technology and Products **DNP**

[Lithium-ion battery pouches] Driving the expansion of the global pouch market as the industry leader



We have secured 60-70% share over the global battery pouch market, and are driving the market forward.

Particularly for large pouches used in automotive and other applications we have nearly 100% share. (Research by DNP, 2022)

We have been developing battery pouches for more than 30 years, and our track record of reliability has won us high praise from many customers.

Bolster competitiveness by combining the **Coating and lamination technologies** honed in packaging materials for products such as food and pharmaceuticals as well as an exhaustive range of patent applications, and through use of internally developed production facilities

Product competitiveness: its source, and further enhancements

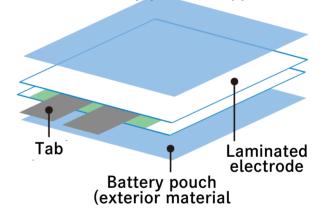
- [Production technology]
 Production equipment tailored to our proprietary processes is manufactured in-house
- [Product development] Materials development: Development and manufacture of strategic materials through in-house design and alliances with materials manufacturers Process development: Improving characteristics through the use of proprietary processes

Further reinforce our strengths

- [Vs. competition] We have many comprehensive patents that discourage entry by other companies
- [Vs. customers] We will use our track record of adoptions by customers to further strengthen our relationship with global EV battery manufacturers

We are promoting local production to address policies specific to various countries

Structure of a lithium-ion battery to which a battery pouch is applied



Advantages of pouch type

- Can be designed into low-profile shape with large surface area for outstanding radiant efficiency
- > High degree of freedom with regard to shape
- Few vacant spaces compared to other methods, giving better volumetric energy density
- Easy to create multilayer construction (stacked structure) with superior reliability and safety.

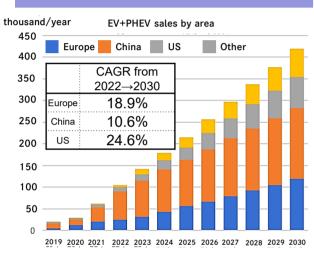
(DNP research) 13

[Medium-term Management Plan - Business Strategy] Growth Strategy Aimed at Maintaining Top Global Market Share

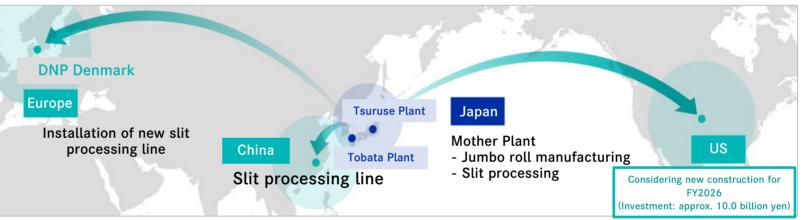
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[Lithium-ion battery pouches] Europe: Installation of new slit processing line at DNP's Denmark Plant United States: Considering construction of plant

Progress of shift to EVs in global market



- Environmental policies, laws and regulations in various countries expected to drive active investments in EVs and growth in sales volumes.
- In addition to the growth expected in Europe and China, the shift to EVs is expected to accelerate in the US as a result of preferential tax treatment for EVs established by the Inflation Reduction Act and the internalization of EV battery production by GM and Ford, resulting in significant expansion.



Establishing a structure to swiftly address local customer needs in order to further enhance our global presence

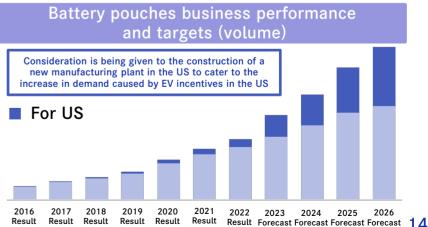
Business strategy/investment plan

- Promote supply to appropriate regions in Europe and United States
 - Post-process line in Europe (Denmark Plant) begins operation (in 2Q FY2023)

United States (planning installation of new production line) Slit processing line (considering start of operations in FY2026)

*Also considering jumbo roll manufacturing

Aiming for 100 billion yen in sales by FY2025 for lithium-ion battery pouches overall

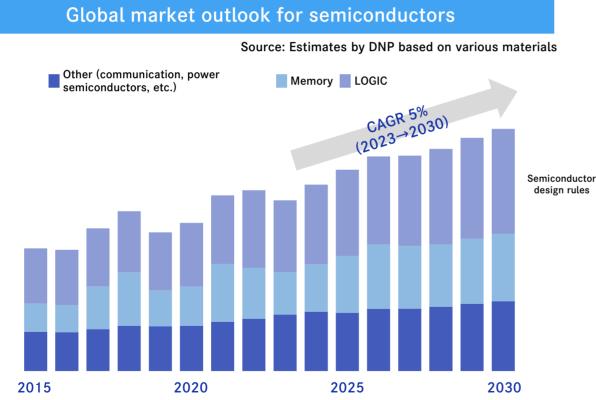


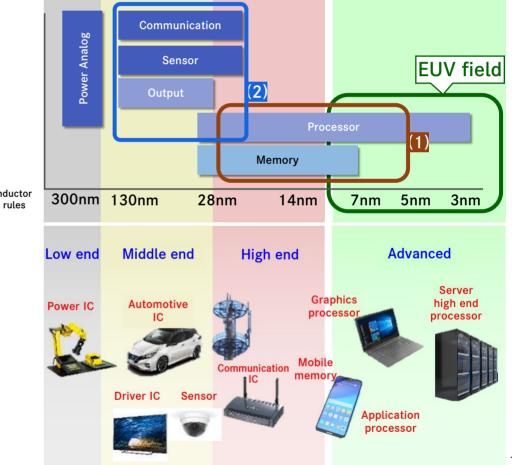
Source: LMC Automotive / DNP forecasts, based on policies of various countries, and automobile manufacturer press releases, etc.

[Medium-term Management Plan - Business Strategy] Semiconductor Business Strategy

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Global market outlook for semiconductors and technology node and applicable products





[Medium-term Management Plan - Business Strategy] Semiconductor Business Strategy



Capital Expenditures for Photomasks

Size of investment
 20 billion yen (FY2023 to FY2025)

Details/progress of main investment items (1) Increase number of multi-beam mask writers

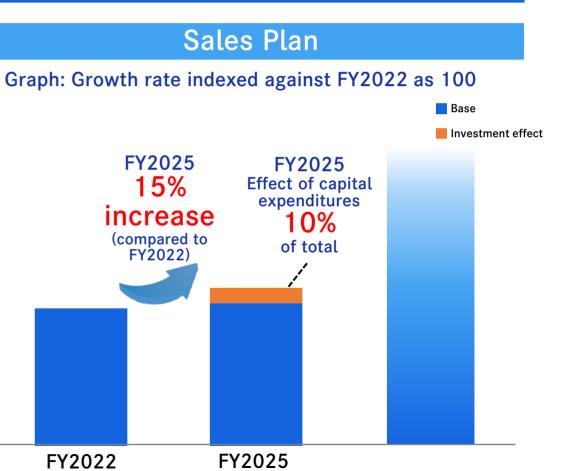
> Scheduled to begin operation in 2H FY2024

(2) Expand production capacity for mid-range products

Scheduled to begin operation in stages, FY2023 to FY2025

Investment objective

- (1) Strengthen ability to address EUV/advanced fields
- (2) Enhance ability to address expanding demand for automotive applications, and semiconductor volume zone



[Medium-term Management Plan - Business Strategy] TGV Glass Core Substrate for Next-generation Semiconductor Packages

Awarded the grand prize in the electronic materials for semiconductors category at "Semiconductor of the Year 2023"

The "TGV Glass Core Substrate" developed by DNP uses glass as a replacement for the resin used in conventional substrates such as FC-BGA (Flip Chip-Ball Grid Array), with this high-density Through Glass Via (TGV) enabling the provision of semiconductor packages capable of even higher performance than was previously possible.

Developmental backdrop

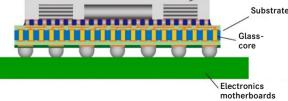
- As the volume of data being distributed rises dramatically in step with the advance of digital transformation (DX), the semiconductors that support our social infrastructure are being required to deliver even greater performance and higher reliability
- This has led to increased interest in next-generation semiconductor packages that enable higher processing speeds through the mounting of multiple semiconductors with different functions on the same substrate

Features of glass core substrates

- A new manufacturing method is used to enhance the adhesion between glass and metal, which is difficult to achieve with conventional technology, resulting in finer pitch and high reliability
- > With an aspect ratio of 9+, the adhesive qualities are sufficient to allow fine wiring
- It enables a high degree of design freedom with regard to warpage, rigidity and planarity, and the use of our panel manufacturing process allows it to be scaled up for larger packages



DNP

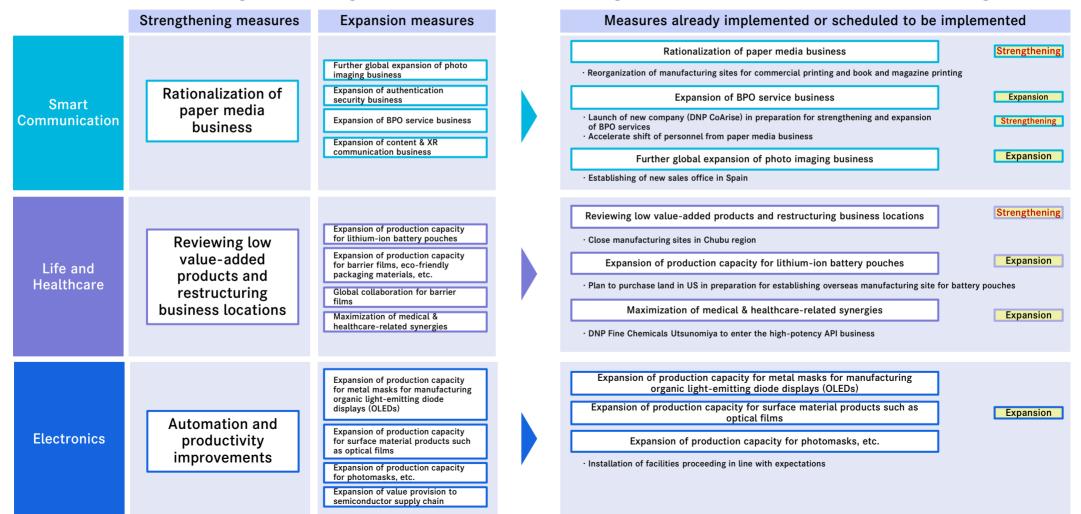


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[Medium-term Management Plan - Business Strategy] Status of Business Structure Reform



Seek to rationalize locations and systems according to market trends and business size in all segments, and reallocate resources from contracting divisions to growth areas to continue to strengthen the business foundation for sustainable growth.

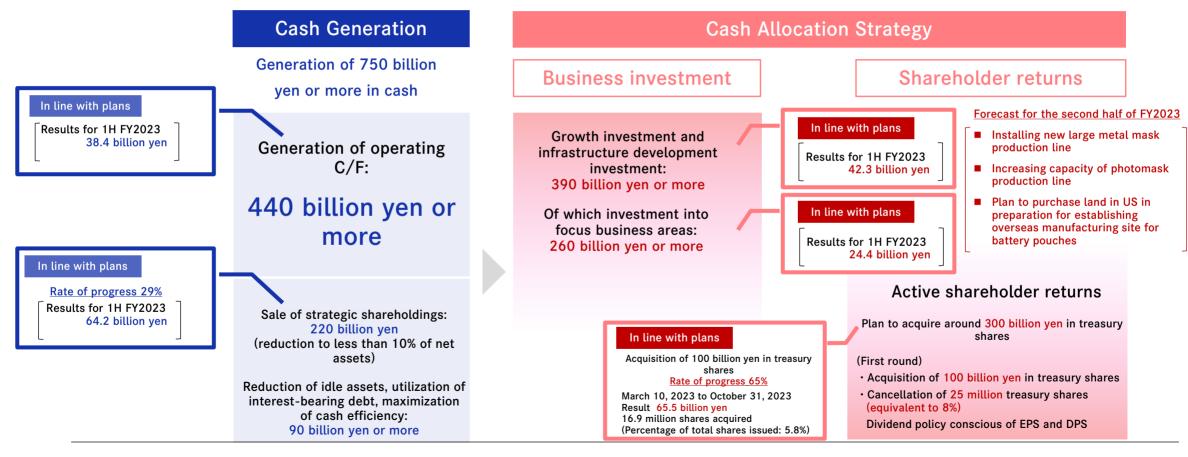


[Medium-term Management Plan - Financial Strategy] Cash Allocation



5 years from FY2023 to FY2027*

Appropriate allocation of cash generated to further business growth and shareholder returns



[Medium-term Management Plan - Financial Strategy] Sale of Strategic Shareholdings and Acquisition of Treasury Shares



(1) Sale of Strategic Shareholdings

Relative to the plan of 220 billion yen over five years, as of September 30, 2023 we had sold 29% representing 64.2 billion yen in listed stocks



(2) Acquisition of Treasury Shares

Relative to the plan of 300 billion yen over five years, we are in the process of acquiring 100 billion yen in treasury shares (acquisition period: March 10, 2023 to March 8, 2024) As of October 31, 2023, we had acquired 65% representing 65.5 billion yen (16.9 million shares) of treasury shares



By March 8, 2024, we plan to acquire 100 billion yen in treasury shares

未来のあたりまえをつくる。 **DNP**

Disclaimer

The earnings forecasts, medium-term management targets, and other forward-looking statements contained in these materials represent DNP's judgement of the current outlook based on information available at the time of preparation, and involve potential risks and uncertainties.

Actual performance may therefore differ materially from these forward-looking statements due to changes in the various assumptions on which they are based.