Financial Results FY2022 Q3

February 10th, 2023 Nippon Denkai, Ltd.



1. Business Results for FY2022 Q3

- 2. Forecast and State of Progress for FY2022 full-year
- 3. Appendix

FY2022 Q3 Business Results Highlight (Consolidate)



Business Results

- Net Sales
 12,717million yen (YoY 17.8% decrease)
- Operating Profit △870million yen (YoY 1,761million yen decrease)
- EBITDA
 61million yen (YoY 1,766million yen decrease)

Business Overview

- Sales condition is continuously in a difficult situation since 1H
 - ➤ EV battery copper foils: Continued costumer's production restraint as prolonged semiconductor supply shortages.
 - Circuit board copper foils: Lower demand for smartphones and automotive circuit boards.
- Operating Profit △870million yen
 - Manufacturing cost increased due to:
 - •Energy price hike in Japan and the US.
 - •Decline in operating rate due to lower sales and production volume.

■ Production volume: 6,592Mt (YoY 29.2% decrease)



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FY2022 Q3 Business (Consolidated)

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Net Sales: Sales volume for EV battery copper foils declined.
The demand for circuit board copper foils remained low overall.

■ Manufacturing cost increased due to energy price hike and decrease in operating rate by

lower sales and production volume.

(Million Yen)	FY2021 Q3	FY2022 Q3	Difference	YoY (%)
Net Sales	15,469	12,717	△ 2,751	△ 17.8%
EV battery copper foils	10,119	8,464	△ 1,654	△ 16.4%
Circuit board copper foils	5,349	4,252	△ 1,096	△ 20.5%
Operating Profit	890	△ 870	△ 1,761	_*
Ordinary Profit	874	△ 1,055	△ 1,929	_*
Profit Attributable to Owners of Parent	632	△ 994	△ 1,626	_*
Production Volume (Mt)	9,309	6,592	△ 2,717	△ 29.2%

In the above table, numbers are rounded down. The results of percentage figures may differ from those after rounding figures since they're calculated in units of 1 yen.

* Percentage change is omitted since this is a comparison of increase and decrease.

FY2022 Q3 Operating Profit & EBITDA (Consolidated)

(Million Yen)	FY2021 Q3	FY2022 Q3	Difference	YoY (%)
Net Sales	15,469	12,717	△ 2,751	△ 17.8%
Cost of Net Sales	13,789	12,602	△ 1,187	△ 8.6%
Gross Profit on Sales	1,679	114	△ 1,564	△ 93.2%
Gross Profit Margin (%)	10.9%	0.9%	△ 10.0pt	_
SG&A	788	985	196	24.9%
SG&A Margin (%)	5.1%	7.7%	2.6pt	_
Operating Profit	890	△ 870	△ 1,761	_*
Operating Profit (%)	5.8%	△ 6.8%	△ 12.6pt	_
Depreciation	937	932	△ 4	△ 0.5%
EBITDA	1,827	61	△ 1,766	△ 96.6%
EBITDA Margin (%)	11.8%	0.5%	△ 11.3pt	_

In the above table, numbers are rounded down. The results of percentage figures may differ from those after rounding figures since they're calculated in units of 1 yen.

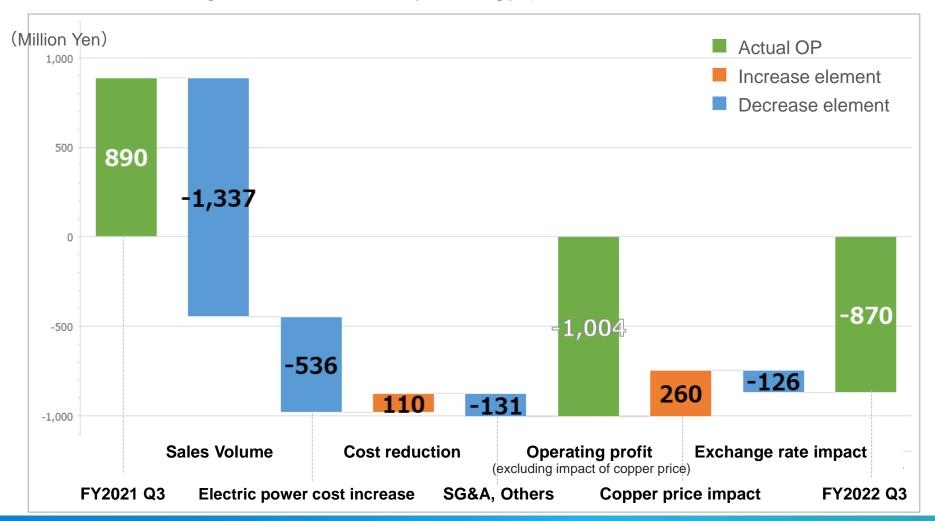
* Percentage change is omitted since this is a comparison of increase and decrease.

Operating Profit Q3 YoY Comparison (Consolidated)



Operating Profit decreased due to:

- Decline in operating rate due to lower sales and production volume
- Manufacturing cost increase by energy price hike





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Revision of Financial Results FY2022 Full-year (Consolidated)

(Million Yen)	FY2022 Forecast	FY2022 Q3
Net Sales	17,700	12,700
EV battery copper foils	11,600	8,400
Circuit board copper foils	6,100	4,200
Operating Profit	△1,000	△800
Ordinary Profit	△1,200	△1,000
Profit Attributable to Owners of Parent	△1,100	△900
EBITDA	200	60

※ Actual figures are rounded down to 100 million yen same as the forecast.

< Basis of Forecast >

Production volume : 8,700 Mt

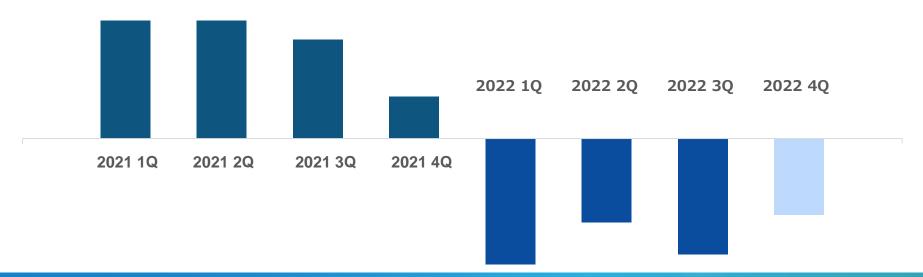
Copper market price* : 1,200yen/Kg

*[Copper market price] is domestic copper price referred by JX Nippon Mining & Metals Corporation in Japan.

Quarterly Operating Profit (Consolidated)



- **◆ Q4: Downturn due to the following factors**
 - The target "partial cost-reflective pricing in electricity" not achieved
 - Further decline in orders compared to the plan announced on 11/10 due to delay in demand recovery of copper foil in EV battery and circuit board fields.
 - Increase in copper price
 - The target "Price revision of products in the US plant" not achieved
- Full-year result is predicted to achieve the forecast through fixed cost reductions, etc.



Recovery Measures



- Continue negotiating on partial cost-reflective pricing in electricity in Japan
- Continuous sample work with existing and new customers for new orders
- Retaining reduction of fixed costs by improving production efficiency

In progress	Estimated time of monetarization
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	FY2022	FY2023	FY2024	FY2025	FY2026 and after
Sales of high-end product to existing PCB customers in the US					
Price revision of products in the US plant					
Production increase for new lines in the existing customer			_		
Sales to new EV battery manufacturing customer					
Adoption to innovative EV battery					

Construction in the existing plant in US is on schedule

Completion of construction within FY 2022

Start sample work in summer 2023

Supply productions at the end of 2023

Exterior @Camden Plant After Construction



- ◆ LocationCamden, South Carolina, USA
- ◆ Investment amount US\$26 million
- Product / Capacity
 EV battery copper foils / 1,200Mt per year
- ◆ Supply destination
 Major LIB manufacturers in the US



Next Announcement

May 10th, 2023



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Sales by Product (FY2021 full-year, consolidated)

Net Sales

20.5B

YoY

+41.0%



EV Battery Copper Foil



Flexible Printed Circuits Board Package Substrate

Major End-Products





EBITDA¹ JPY 2.2B **EBITDA** margin 11.1%



YB

Lithium-Ion Batteries (LIB)

Uses





Major End-Products





66%

History of Business Results (Quarterly, Consolidated)

(Million Yen)	FY2021 Q1	FY2021 Q2	FY2021 Q3 (A)	FY2021 Q4	FY2022 Q1	FY2022 Q2	FY2022 Q3 (B)	Difference (B-A)
Net Sales	4,895	5,176	5,397	5,088	4,419	4,356	3,941	△1,456
EV battery Copper Foil	3,274	3,381	3,463	3,469	2,729	2,965	2,769	△694
Circuit Board Copper Foil	1,621	1,794	1,933	1,619	1,690	1,390	1,172	△761
Cost of Net Sales	4,329	4,599	4,860	4,737	4,426	4,252	3,923	△937
Gross Profit on Sales	566	576	536	351	△7	103	18	△518
Gross Profit Margin (%)	11.6%	11.1%	9.9%	6.9%	△0.2%	2.4%	0.5%	△9.4pt
SG&A	255	263	269	237	330	332	322	53
SG&A Margin (%)	5.2%	5.1%	5.0%	4.7%	7.5%	7.6%	8.2%	3.2pt
Operating Profit	311	313	266	113	△337	△228	△304	△570
Operating Profit (%)	6.4%	6.0%	4.9%	2.2%	△7.6%	△5.2%	△7.7%	△12.6pt
Ordinary Profit	283	322	268	101	△318	△264	△471	△739
Profit Attributable to Owners of Parent	196	242	192	216	△294	△315	△384	△576
Depreciation	303	314	318	337	307	310	314	△4
EBITDA	614	627	585	451	△29	81	9	△576
EBITDA Margin (%)	12.6%	12.1%	10.8%	8.9%	△0.7%	1.9%	0.2%	△10.6%
Production Volume (Mt)	3,053	3,181	3,073	2,627	2,074	2,172	2,345	△728

Our Commitments to ESG

Environment

Carbon-free world with xEV

We aim for creating a carbon-free world and a sustainable society by providing high-quality copper foils for LIB and xEV.









Our products are made from 100% recycled materials.

We recycle scrap copper foils from the manufacturing process.

100% Recycled raw copper materials



Scrap copper foils from the manufacturing process are recycled

Our environment ESG targets







Social

CSR

We proactively commit to CSR for social contribution such as cleaning litters around our factory, recycling plastic bottles, Pat-Run activity and purchasing handmade buns made in local social welfare facility. We aspire to become the corporation that thrives with a local community through our CSR activities above.

Our environment ESG targets







Governance

Obtained certification for excellent health management

We aim to rise corporate health management and obtained certification called "Gin no Nintei" for excellent health management in June, 2022.

We continuously create a positive work environment while attempting "Kin no Nintei".

Our environment ESG targets





Kin = Gold Gin = Silver

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