



Business Briefing Functional Products business

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FURUKAWA ELECTRIC CO., LTD.

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- 1. Mid-term Management Plan basic policy and strengths
- 2. FY2020 results and full-year forecast
- 3. Future strategy

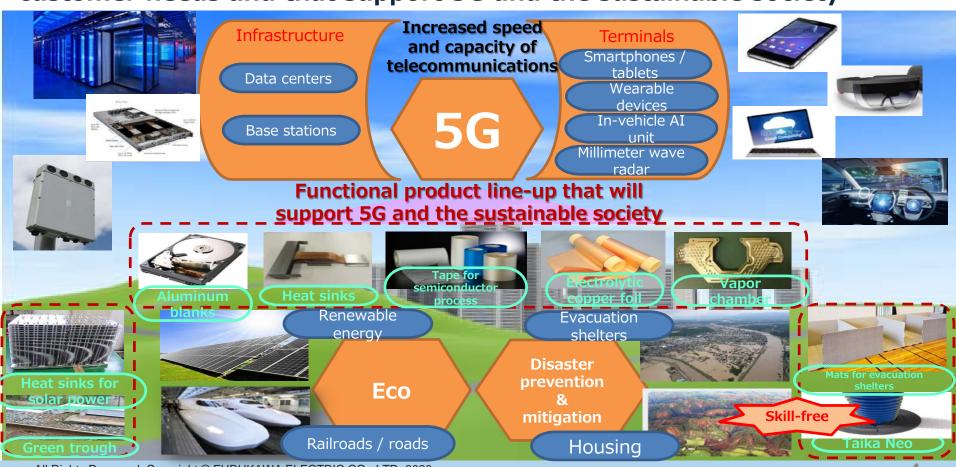
1. Mid-term Management Plan basic policy and strengths



Furukawa G Plan 2020 Basic policy

Aim for co-creation with the customer, and continue to provide solutions

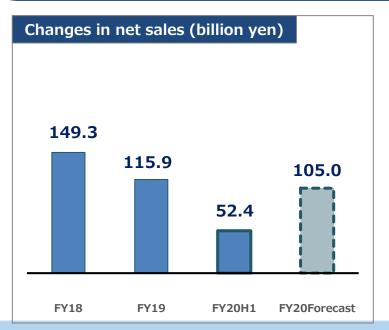
Utilizing the ability to propose and develop new products that meet customer needs and that support 5G and the sustainable society

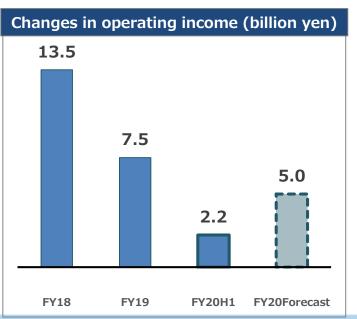


2. FY2020 results and full-year forecast



- Following the recovery in the data center market, earnings are expected to improve in the thermal products and memory disk businesses
- Functional plastics will continue to face a challenging market environment due to delays in civil construction projects in Japan and lower automotive demand overseas caused by COVID-19
- Earnings are expected to deteriorate in tape for semiconductor process due to the impact of weak smartphone demand and customer inventory adjustments
- In the copper foil business, lower automotive demand and decreased production capacity of copper foil for circuits due to the fire at the Taiwan plant last year will be the main negative earnings factors



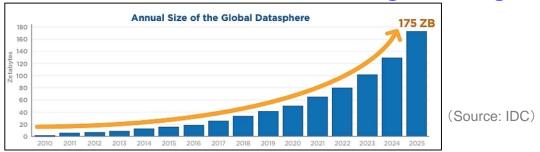


3. Future strategy (1)

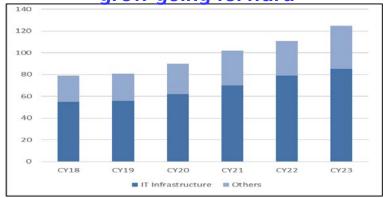


Businesses related to 5G and data centers = Focus on the "development of next generation products" that respond to the growing data demand

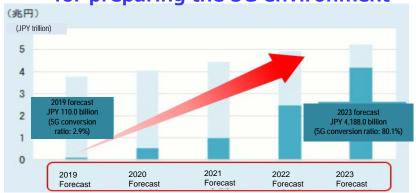
Exponential increase in the volume of data generated globally



Data center investments will also grow going forward



Growth of the base station market for preparing the 5G environment



(Source: Omdia)

<Thermal Management Solution & Products>

Resolve the heat-related issues from higher data volumes

- <Memory Disk> Thinner substrates to realize increased HDD capacity
- <Copper Foil> Develop high performance copper foil for wiring boards

3. Future strategy (2)



<AT Products>

- Ongoing response to the evolution of the manufacturing process following the advances in semiconductor performance (Response to thinner semiconductor chips, response to faster responsivity of camera modules)
- Cultivate new markets and propose new applications

<Functional Plastics>

- Strengthen sales of "skill-free products" as an effective response to the lack of skilled construction workers even during COVID-19
- Develop mats for evacuation shelters using cross-linked polyethylene foam, and promote initiatives for disaster prevention and mitigation together with municipalities

Skill-free products



Square EFLEX



Green trough -Trough bridge that can be used on slopes



Fire-proof and waterproof products for wall penetrations

Disaster products



Mats for evacuation shelters

Thank you very much for your attention.



Appendix Product overview



	AT & Functional Plastics		Thermal Management Solution & Products	Memory Disk	Copper Foil	
Products	•Tape for semiconductor process	Cable protective pipesTroughs made from recycled materialsInsulation materials	·Copper, etc. including heat sinks and heat pipes	·Aluminum blanks for HDD	•Electrolytic copper foil for printed wiring boards	•Electrolytic copper foil for batteries
Applications	Surface protection, immobilizing, etc. during semiconductor wafer processing Semiconductor chip stacking in flash memory	Protective pipes for underground cable Troughs for holding cables Insulation for air conditioning ducts	Heat dissipation and cooling of CPUs and power semiconductors, electronics components, high output LED lighting, etc.	·HDD for data centers, desktop computers, surveillance cameras, etc.	·Wiring boards for communications devices and electronic devices	·Cathode material in lithium ion batteries for electric vehicles, smartphones, power tools, etc.
Customers	Semiconductor manufacturer Foundry manufacturers	General construction companies and subcontractors Railroads Highway public corporations and road subcontractors Air conditioning duct manufactures	 Data center operators; telecommunications base station operators; Smartphone, PC manufacturers Manufacturers of power conditioners for railroads and solar power Lighting equipment manufacturers, etc. 	•HDD substrate manufacturers	Wiring board material manufacturers Lithium ion battery manufacturers	

Appendix – Consideration of the priority SDGs topics: Thermal products



<Maximize the positive impact>

Through thermal products with high performance heat dissipation and cooling structure, realize reduced power consumption by data centers, which is one of the main applications of these products and is receiving more attention worldwide given the amount of power consumed, as well as realize lower running costs and contribute to the increased speed and volume of data communication.





<Minimize the negative impact>

Regarding energy consumption during manufacturing, promote energy conservation and increase the use of renewable energy at the manufacturing subsidiaries.

