FURUKAUA ELECTRIC

Furukawa Electric Co., Ltd. Keiichi Kobayashi, President & CEO

December 8, 2021

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 FY2021 business outlook
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Furukawa Electric will come together as a group to become a

company that is essential for achieving the SDGs

Quickly grasp the issues faced by society & customers



Core technologies x technological innovation



Co-creation with partners

Social issues that involve Furukawa Electric Group, and SDGs that the group can contribute to achieving by 2030







Realize a carbonfree society





Advances in 5G/B5G^{**}
Increased communications traffic





Town planning for mitigating disasters



Realize a resource recycling-based society







Accelerating CASE **
(EV) in automobiles





Regional revitalization & stimulate the rural economy



Realize a tougher infrastructure



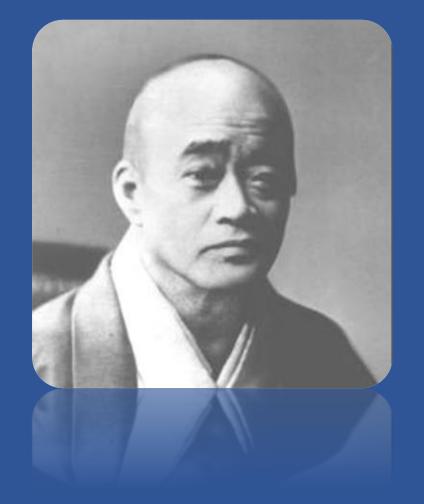
Create resilient mobility infrastructure

B5G: Beyond 5G

X CASE: Connected, Autonomous, Shared & Services, Electric

Thoughts of foundation

Ichibei Furukawa, the founder of Furukawa Group "Brighten Japan"



Founder's thoughts

Value employees,
Value customers,
Value new technology, and
Contribute to society



Furukawa Electric Group History

1884

2021

Creating social infrastructure in Japan and the world

Founded as a manufacturer of copper & copper alloy products and electric power cable



Honjo Copper Smeltery (Honjo, Tokyo)

Yamada Cable Works (Takashima-cho, Yokohama)



Manufactured the first submarine power cable in Japan



Installed an antenna and feed line in the **Tokyo Tower**



First in the world to successfully field test optical fiber cable



Contributed to advances in high volume communications through wavelength multiplexing technology (mass production of a 1480nm laser light source)

New social issues

Advances in infrastructure and mobility / Carbon-free

Furukawa Electric Group Vision 2030

In order to build a sustainable world and make people's life safe, peaceful and rewarding, Furukawa Electric Group will create solutions for the new generation of global infrastructure combining information, energy and mobility.





Founder's thoughts

Value employees, Value customers, Value new technology, and **Contribute to society**



SUSTAINABLE GALS































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Work is enjoyable

Connected to the world from home





How should society be in 10 or 20 years?

Can travel anywhere safely and comfortably





Safe, good tasting food

Healthy lifestyles



For the earth and future generations...

Lifestyles that were unimaginable 20 years ago will continue to evolve



Want to have a stable network and the ability to work even from areas surrounded by nature



Want to receive advanced medical care without going to a hospital



Want to view video more easily







Social issues that involve Furukawa Electric Group

Responding to increased telecommunications traffic

- Advances in 5G/B5G
- Increased telecommunications traffic





Responding to increased telecommunications traffic

FURUKAWA ELECTRIC

This is the issue **Furukawa Electric Group wants to solve!** Stable connection with or without a landline!

Faster, higher efficiency, more reliable, as well as smaller and

lower power consumption.
In addition to building high speed, large volume, low latency telecommunications networks, Furukawa Electric Group wants to solve other issues such as expanding data center capacity and increasing power consumption efficiency!



Communications Solutions

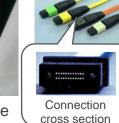
Optical fiber and cable (Optical cabling solutions)





Optical devices

Digital coherent



communication light sources



 Optical fiber fusion splicer

·multicore cable connectors

Functional Products

Used at data centers:



Aluminum blanks for **HDD**



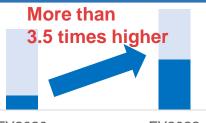
Used at data centers:



Used in telecommunications devices such as servers and routers:



North America optical cable sales forecast

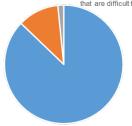


FY2020

FY2022

Rollable ribbon cable

Sales (estimate)* (FY20: About JPY 180 billion) * Excluding sales of some products



Communications Solutions Functional Products

Used in the semiconductor wafer process:



Tape for semiconductor

process

Electronics Component Materials

Copper stripes for power semiconductors and submarine optical fiber cable

Oxygen-free copper stripes (GOFC)







Energy Infrastructure

Used at data centers:

Cable and connectors

Heat dissipation sheets

Used at data centers:

Leave behind a world that is still beautiful 50 years from now



Want to leave a rich natural environment for future generations



Increased use of vehicles that do not emit greenhouse gas



Want to value plants, animals and people







Prevent global warming

Realize a carbon-free society







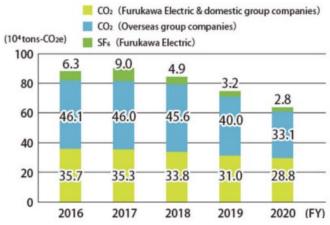
Directed at the realization of a carbon-free society

Basic outlook regarding carbon neutral

- 1 Eliminate or reduce direct CO₂ emissions
- 2 Eliminate or reduce CO₂ emissions by customers and society
- 3 Capture or transform the CO₂ that is emitted

Renewable energy ratio 10.3%*

<Change in GHG emissions>



*Target of aggregation: Furukawa Electric + 30 Japan group companies + 58 overseas group companies

Furukawa Electric Group Environmental Vision 2050

(established in March 2021)

Through the provision of environmentally friendly products and services and recycling-based production activities, contribute to the realization of a sustainable society throughout the value chain





Contribute to realizing a carbon-free society

Aim to reduce greenhouse gas emissions throughout the value chain (Greenhouse gas emissions from business activities (Scope 1 & 2): Challenge target of zero emissions in 2050)



Contribute to realizing a recycling-based society for water & resources

Minimize water usage, and promote the use of recycled materials, including waste plastic, throughout the value chain



Contribute to society in harmony with nature

Minimize the impact on ecosystems through value chain management that includes raw materials

Prevent global warming



This is the issue Furukawa Electric Group wants to solve!

Delivering clean electric power that does not emit CO₂!

Directed at achieving carbon neutral in 2050, the installation of mainly offshore wind power will expand in Japan based on the policy for maximizing installation of renewable energy. Many of the products manufactured by Furukawa Electric Group are being actively used in growth markets such as solar power.



Energy Infrastructure



Power cable

- Extra-high voltage and high voltage underground power cable, components and installation
- Submarine power cable and installation

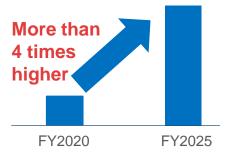


Used in solar power modules: **Various cables**



Used at solar power stations: **Aluminum conductor cable**

Sales forecast of submarine power cable for renewable energy in Japan



Functional Products

Used at solar power stations:

Green troughs



Used in solar power inverters, etc.:

Thermal management products



Electronics Component Materials

Copper strips for cable

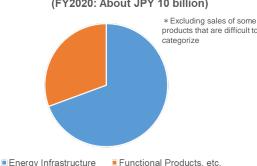


For screen printing of electrodes for solar power panels:

Ultra-thin SUS wire



Sales (Estimate)* (FY2020: About JPY 10 billion)



Prevent global warming

FURUKAWA ELECTRIC

This is the issue Furukawa Electric Group wants to solve!

Realize a society with green mobility!

Contribute to reducing CO₂ emissions through vehicle electrification, lighter vehicle weight and energy management. The capability spanning from materials through development is one of the group's strengths.

Automotive Products





Aluminum harnesses Corrosion-proof (α) terminal



Battery state sensor (BSS)



High voltage harnesses
High voltage products

Products using flat cable (SDH/LSH)

Sales forecast of wire harnesses

More than 2.5 times higher



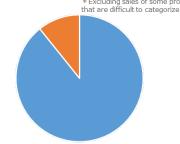
FY2020

FY2025



Aluminum wire harnesses

Sales (Estimate)* (FY2020: About JPY 250 billion)



Automotive Products & Batteries

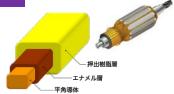
Electronics Component Materials, etc.

Electronics Component Materials





Conductor substrate for wire harnesses (copper, aluminum)



Oxygen-free copper for electric motors



Resistor material for shunt resistance



Sn plated strips for BSS terminal/ corrosionproof (α) terminal

Deliver information / data & energy

- CommunicationsSolutions
- Energy Infrastructure

Ratio of FY2020 net sales 31%



Safe vehicles that are also environmentally friendly

Automotive Products& Batteries



High performance products that support infrastructure, automobiles, semiconductors and data centers

• Electronics Component Materials • Functional Products



Core technologies

Metals

Polymers

Photonics

High frequency

Intellectual property

DX

1. Mission of Furukawa Electric Group – Contribute through the existing businesses

Directed at increasing corporate value
 FY2021 business outlook
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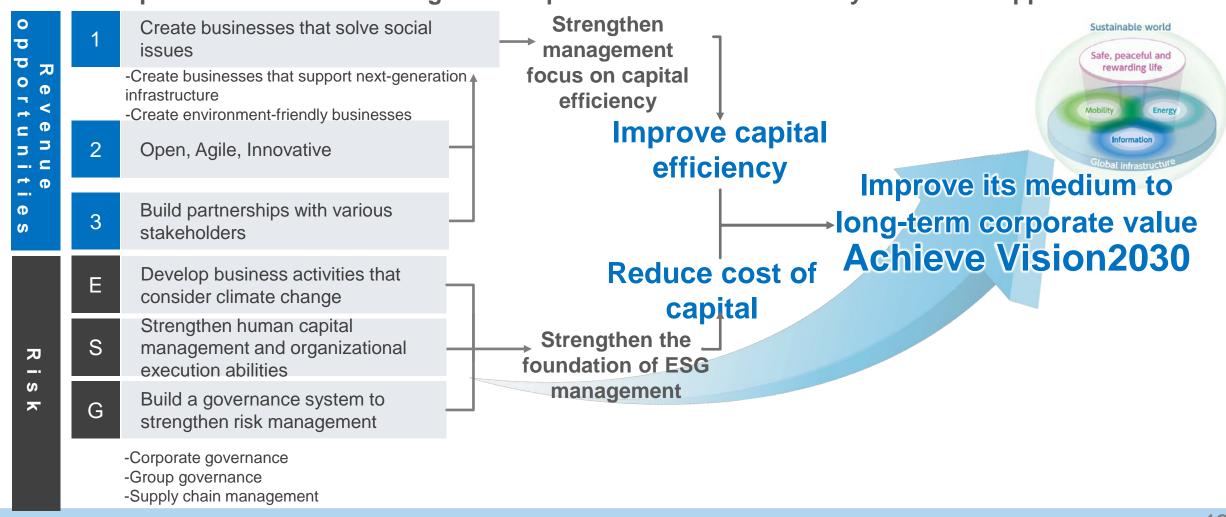
3. Mission of Furukawa Electric Group – Advance into new business domains

Directed at increasing corporate value

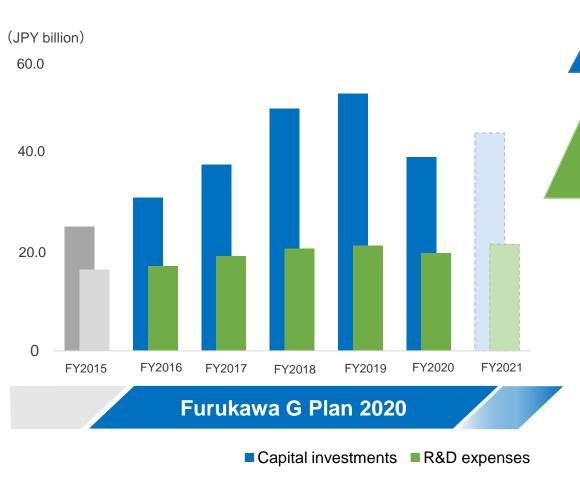


Improve its medium to long-term corporate value from both sides of improving capital efficiency and reducing cost of capital

Relationship between medium to long-term corporate value and materiality of revenue opportunities / risks



From FY2016, focusing on capital investments and R&D directed at achieving Vision 2030



Capital investments
JPY 213.3 billion*
(Average of JPY 42.7 bil./year)

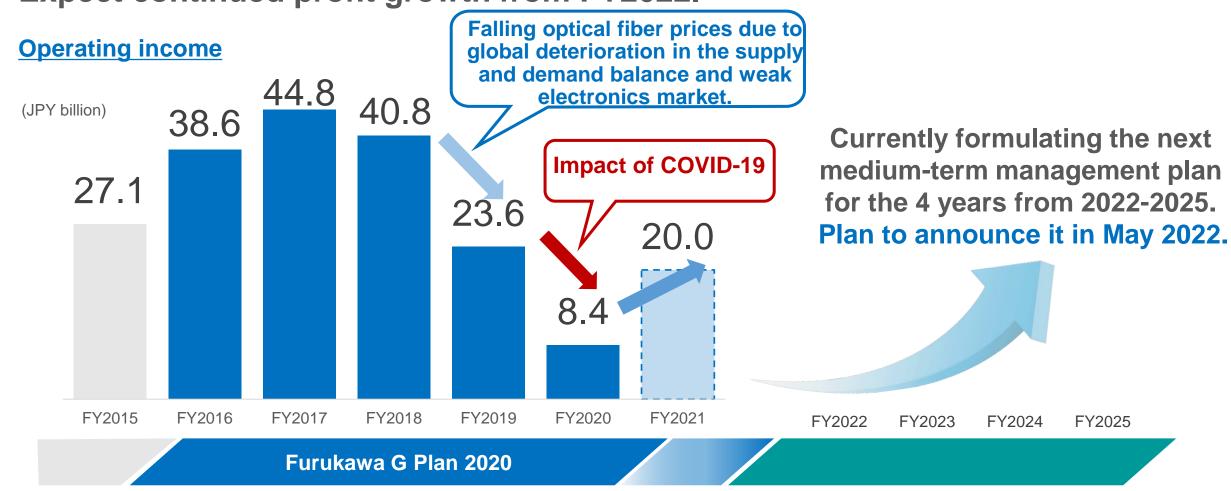
R&D expenses JPY 100.0 billion* (Average of JPY 20.0 bil./year)

- Optical fiber & cable
- Power cable
- Aluminum wire harness
- Co-creation with partners through open innovation
- Utilize the core technologies in new business domains



FY2021 business outlook

In FY2021, the Infrastructure, Electronics & Automotive Systems and Functional Products segments will recover with increased profit on higher revenue. Expect continued profit growth from FY2022.



Increased profitability in the power cable business and copper & high performance material products business

Energy Infrastructure (Power cable)

- Narrow down the priority segments, and focus on specific domains
- Increase cable manufacturing and installation capacity



Submarine power cable manufacturing facility (Chiba Works)



Installation skill training



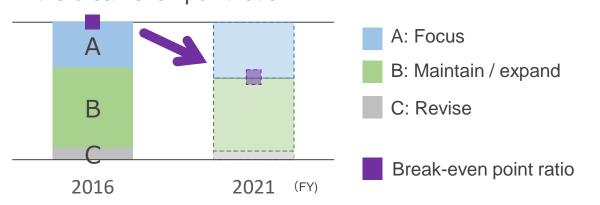
Work together with customers to address the shrinking labor force

For example...

Partner with customers to strengthen engineering services Electronics Component Materials (Copper & high performance material products)

■ Improve the product mix

Revise the product profit structure and improve the break-even point ratio



Contribute to energy saving through power semiconductors

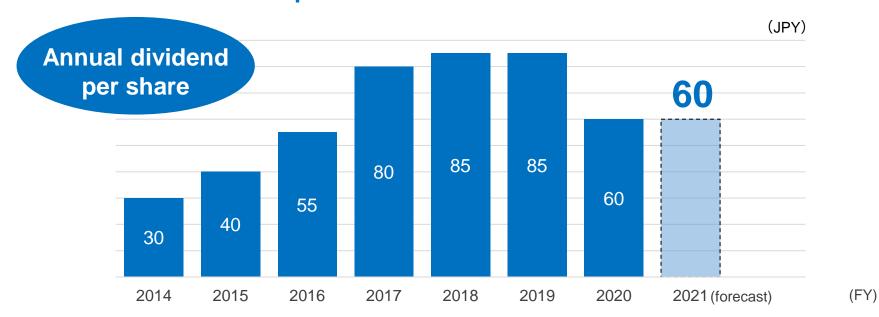
For example...

Materials that solve the heat-related problems involving power semiconductors, which are used to control high voltages and large currents

Shareholder returns in FY2021

■ Shareholder returns FY2021 dividend forecast: JPY 60

Furukawa Electric is aiming to manage the group with a focus on capital efficiency and has set forth the basic policy of achieving a balance between strategic growth investments, fostering next generation new businesses, improving the financial position and providing shareholder returns. Continuing to provide a stable income while taking into consideration the financial position and business results has been designated one of the top priority management issues, and this year, it is planned to issue a dividend of JPY 60 per share.



*Due to the 1-for-10 reverse stock split conducted on October 1, 2016, the dividends for FY2014 and FY2015 shown here have been increased 10-fold to make them comparable with the dividends following the reverse stock split.

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Expand the core technologies into new business domains

FURUKAWA **ELECTRIC**



Increase convenience for both medical practitioners and patients

Life sciences

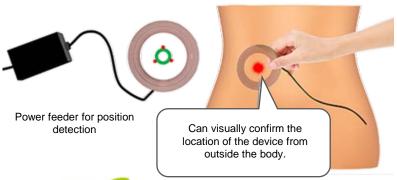


Photonics

Photonics technology for manipulating light beams less than 1/100mm in diameter will contribute to smaller sizes, higher efficiency and increased reliability in the life sciences domain.

Find using light

Medical device for internal detection





Detection solutions using an internal medical device

Confirm the location without physical contact

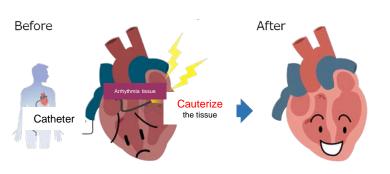
Moving the external coil overtop of the device causes it to light up.

https://www.furukawa.co.jp/tellumino/

Measure using light OCT (optical coherence tomography) Acquire information based on the reflection of light Acquire information Nobody will find me here Before After

Cauterize using light

Ablation treatment



Accelerate the creation of new business fields within life sciences

 \sim Concluded a joint development agreement with Atonarp Inc., developer of an advanced optical measurement platform \sim

https://www.furukawa.co.jp/release/2021/kei_20210524.html

Shrinking labor force & Aging society

Make social infrastructure maintenance and management easier

Infrastructure management

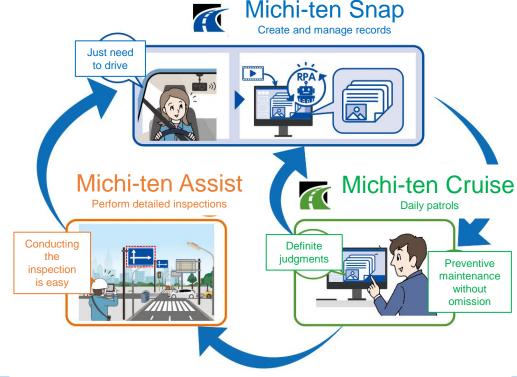


DX

- Utilize the independently developed image analysis technology to maintain and manage roadside fixtures such as road signs and lights.
- Looking for opportunities to further expand the applications, such as for railroads.



https://www.furukawa.co.jp/infra-maintenance/





Social issues involving Furukawa Electric Group

Prevent global warming

Responding to increased telecommunications traffic

Town planning for mitigating disasters

Accelerating CASE (EV) in automobiles

Shrinking labor force & Aging society Revitalize the regional economy

These are the issues Furukawa Electric Group wants to solve!

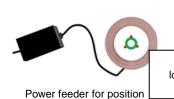


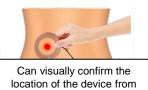
Core











outside the body.











Photonics

High frequency



Furukawa Electric will come together as a group to become a

company that is essential for achieving the SDGs

Quickly grasp the issues faced by society & customers



Core technologies x technological innovation



Co-creation with partners

Social issues that involve Furukawa Electric Group, and SDGs that the group can contribute to achieving by 2030







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Accelerating CASE **
(EV) in automobiles





Regional revitalization & stimulate the rural economy



Realize a tougher infrastructure



Sustainable cities

A limit infra

Create resilient mobility infrastructure

※ B5G: Beyond 5G

X CASE: Connected, Autonomous, Shared & Services, Electric

Thank you very much for your attention.



Forward-Looking Statements

Projections of future sales and earnings in these materials are "forward-looking statements."

Management offers these projections in good faith and on the basis of information presently available.

Information in these statements reflects assumptions about such variables as economic trends and currency exchange rates.

Forward-looking statements incorporate known and unknown risks as well as other uncertainties that include, but are not limited to, the following items.

- Economic trends in the U.S, Europe, Japan and elsewhere in Asia, particularly with regard to consumer spending and corporate expenditures.
- Changes in exchange rates of the U.S. dollar, euro, and Asian currencies.
- Furukawa Electric Group's ability to respond to rapid advances in technology.
- Changes in assumptions involving financial and managerial maters and the operating environment.
- Current and future trade restrictions and related matters in foreign countries.
- Changes in the market value of securities held by Furukawa Electric Group.

Due to the above factors, actual sales, earnings, and other operating results may differ significantly from Looking Statements in these materials. In addition, following the release of these materials, Furukawa Electric Group assumes no obligation to announce any revisions to forward-looking statement in these materials.

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