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SENSHU ELECTRIC CO., LTD.
BHP
FCM Corporation
Mitsubishi Materials Corporation
NTT Circurust, Inc.
NTT DATA Japan Corporation
Sambo Metals Corporation
Yasaka Electric Wire Co., Ltd.

Implementing Copper Cables with Environmental Value from Lower-GHG Copper Ore in a Logistics Facility

- Launched a demonstration test applying the mass balance credit model throughout the value chain -

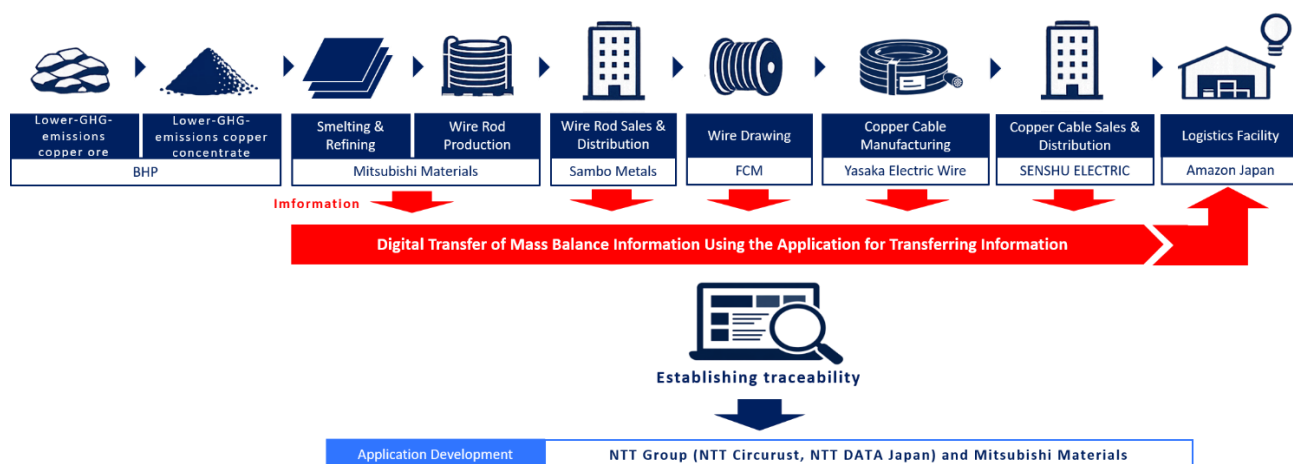
SENSHU ELECTRIC CO., LTD. (“SENSHU ELECTRIC”), BHP, FCM Corporation (“FCM”), Mitsubishi Materials Corporation (“MMC”), NTT Circurust, Inc. (“NTT Circurust”), NTT DATA Japan Corporation (“NTT DATA Japan”), Sambo Metals Corporation (“Sambo Metals”), and Yasaka Electric Wire Co., Ltd. (“Yasaka Electric Wire”) aspire to build a consistent value chain from raw material procurement through product use. They have launched a demonstration test to show how the greenhouse gas (GHG) emission profile of copper cables can be traced using the mass balance credit model(*1), helping to support broader efforts toward a more sustainable society.

In recent years, in order to realize a decarbonized society, there has been a need to reduce GHG emissions throughout the value chain, from resource extraction to product manufacturing, use, and disposal. In the copper sector, while efforts to reduce GHG emissions in the process of producing ore in mines are progressing, it is difficult to properly communicate these lower GHG emissions attributes and reflect them in the products that end users receive due to the involvement of multiple processes and organizations throughout the value chain.

Therefore, in this demonstration, MMC will first smelt copper concentrate(*2) produced at the BHP-operated Escondida Copper Mine in Chile—where operational GHG emissions have been reduced by sourcing 100% of purchased electricity from renewable energy—and process it into wire rod. FCM Corporation and Yasaka Electric Wire will then process wire rod sold by Sambo Metals into copper cables, which will be implemented at the logistics facility of Amazon Japan G.K. through SENSHU ELECTRIC. The environmental attributes will be managed in accordance with the “Guidelines of Mass Balance Credit Model for Copper Products”(*3), and NTT Circurust, and NTT DATA Japan will verify the effectiveness of information-transferring processes intended to ensure traceability and transparency. Through this demonstration test, the companies aim to clarify issues and identify next steps toward widespread adoption

of reliable value chains for copper cables made from lower-GHG-emissions copper ore, contributing to a more sustainable society.

The image of this demonstration test is as follows:



As the transition to a decarbonized society accelerates, SENSU ELECTRIC Group regards reducing GHG emissions as an important management priority. We endorse the objective of this demonstration project to deliver the environmental value of low-GHG copper ore produced by the BHP Group at its mines to end consumers through the value chain and will participate as a partner responsible for the distribution and sale of electric cables and other products.

Through this demonstration project, with the goal of achieving both a sustainable society and enhanced corporate value, we are working to reduce GHG emissions across the entire value chain. Furthermore, as general trading company of electric wire and cable, we will contribute to the creation of systems that facilitate the widespread adoption of environmentally friendly products by leveraging our role as a bridge between suppliers and customers.

(*1) A mass balance model that uses a method of issuing credits for specific characteristics possessed by raw materials and attributing the issued credits to products or parts of products. A mass balance model is one of the five Chain of Custody models defined in ISO 22095:2020, under which raw materials or products with specific characteristics are mixed with raw materials or products without those characteristics in accordance with defined criteria. Chain of Custody refers to the process by which inputs and outputs, as well as related information, are transferred, monitored, and controlled as they pass through each stage of the relevant value chain.

(*2) A raw material produced by crushing and processing copper ore to increase its copper content.

(*3) A guideline that clarifies the rules for applying the mass balance credit model to copper products. This guideline was formulated by MMC and has been confirmed by a third party to comply with ISO 22095

and ISO 22095-2, which was issued in January 2026.

[Related Release]

April 27, 2026 Establishment of the “Guideline of Mass Balance Credit Model for Copper Products” by MMC

URL: <https://www.mmc.co.jp/corporate/en/news/2026/news20260427.html>

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