Having started with copper refining and electric wire businesses, our company has broadened its technological capabilities by staying ahead of the times and responding to societal needs. In the process, we have released numerous leading technologies and products. These technologies have contributed greatly to the realization of products that help build a safe and secure society, improve environmental performance, and support comfortable lives.

- History of multifaced technologies and products -

**Technological Genealogy**

- Magnet Wires
- Electrolytic copper foils and plating
- Superconducting cables
- High-temperature superconducting wires
- Optical subsystems
  - Optical signal processing
  - Optical semiconductors
  - Optical passive components
- High density plating
- Memory disc materials
- Shape-memory alloys
- Rolled copper products
- Lead storage batteries
- Lead pipes

**Insulating technologies**

- Planar lightwave circuit technologies
- Sheets
- Strips
- Wires
- Superconductivity
- Rubber
- Paper
- PVC
- Polyethylene
- Pipes
- Foils
- Sheets
- Extrusion products
- Foaming technologies
- Alloy design
- Electric wires
- Power cables
- Telecommunication cables
- Coaxial cables / Waveguides

**Polymer processing**

- Insulating tapes
- Functional films
- Ultra high-voltage cables

**Creating safe and comfortable living spaces**

- Safe and stable sharing of electricity
- Telecommunication in large volumes and at high speed
- Energy conservation
- Waste reduction

**Reducing the size of semiconductors**

- Functional advancement of electronics products
- Reducing the weight of automobiles
- Reducing CO2 emissions

**Extrusion foaming**

- Resin coating materials
- Eco wires
- Micro foamed materials
- Bridging foaming
- Nano foaming

**Optical connectors**

- Optical fibers
- Optical fiber fusion splicers
- Cable-protecting pipes
- Steering Roll Connectors (SRC)
- Automotive wire harnesses
Corporate Philosophy

Drawing on more than a century of expertise in the development and fabrication of advanced materials, we will contribute to the realization of a sustainable society through continuous technological innovation.

Overseas bases meeting needs worldwide

Furukawa Electric has built a global network that responds to customer demand and earns customer confidence by quickly delivering products of excellent quality at highly competitive prices.

More than 122 Group companies in total

<table>
<thead>
<tr>
<th>Region</th>
<th>Number of Companies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
<td>10 companies</td>
</tr>
<tr>
<td>Morocco</td>
<td>1 company</td>
</tr>
<tr>
<td>Asia</td>
<td>94 companies</td>
</tr>
<tr>
<td>North America</td>
<td>5 companies</td>
</tr>
<tr>
<td>Latin America</td>
<td>11 companies</td>
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<tr>
<td>Africa</td>
<td>1 company</td>
</tr>
<tr>
<td>Asia</td>
<td>1 company</td>
</tr>
<tr>
<td>United States</td>
<td>1 company</td>
</tr>
</tbody>
</table>

European countries: United Kingdom, Germany, Italy, Netherlands, Denmark

Asia: China, Philippines, Hong Kong, Vietnam, Taiwan, Malaysia, Indonesia, Japan, Singapore, India, Thailand, Korea

Latin American countries: Argentina, Colombia, Brazil, Mexico

United States

Africa

Asia

North America

Latin America
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**Technological Genealogy**

- History of multifaced technologies and products -

![Technological Genealogy Diagram]

**Reducing the size of semiconductors**

- Functional advancement of electronics products

**Reducing CO₂ emissions**

- (Reducing the weight of automobiles)

**Safe and stable sharing of electricity**

**Telecommunication in large volumes and at high speed**

**Energy conservation**

- Waste reduction

**Creating safe and comfortable living spaces**
In 1884, Furukawa Electric started smelting copper in Honjo, Tokyo and manufacturing electric cables in Takashima-cho, Yokohama. The Furukawa Group’s founder, Ichibe Furukawa, is said to have worked to build a new Japan with the aim of “making Japan brighter.” We have inherited this idea from him and will continue seeking to “make the world brighter” as a unique player with diverse material technologies in fields such as infrastructure and automobiles.

History of Innovation

1884 Opens Honjo Copper Smeltery and Yamada Cable Works
1958 Installs an antenna system on Tokyo Tower
1974 Becomes the world’s first company to field experiment optical fiber cables
1989 Commences sale of steering roll connectors (SRCs)
1996 Achieves the world’s highest level output of 200 mW, using 980 nm laser module for optical amplifiers
1992 Takes over the optical fiber solution business of Lucent Technologies
2001 Develops the world’s first 30-40 aluminum alloy for automobile panel materials
2011 Takes over SuperPower Inc., a development and manufacturing company of superconducting wire
2012 Order received for superconducting power cables for the International Thermonuclear Experimental Reactor (ITER)
2013 Achieves the world’s highest level output of 200 mW, using 980 nm laser module for optical amplifiers
2014 Achieves the world’s highest level output of 200 mW, using 980 nm laser module for optical amplifiers
2015 Develops a 24-GHz rear-area radar monitoring system for automobiles
2016 Developing the "a Terminal Series" corrosion proof terminals for aluminum wire harnesses in automobiles
Develops a micro ITLA for 100Gb/s optical coherent transmission
Develops the world’s largest capacity 275kV superconducting power cable

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Priority business areas that support growth

Our three core power components are “metals”, “photonics” and “polymers”. And, in our six business fields of telecommunications, energy, automobiles, electrical parts and components, construction and architecture, and new business and products, we will continue to work to develop a diverse range of products. In addition to winning a No.1 world share, the products that we develop in our many business areas are contributing to society.

Three Business Segments

Three Core Materials
- Metals
- Polymers
- Photonics

Priority business areas that support growth

- Electronics & automotive systems
  - Automotive products & batteries
  - Electronics component material
- Infrastructure
  - Communications solutions
  - Energy infrastructure
- Functional products
  - Metals
  - Polymers
  - Photonics

Three Business Segments

- Electronics & automotive systems
  - Steering roll connectors (SRC)
  - Copper and Copper Alloy Products
- Infrastructure
  - Optical fiber cables
  - Optical fiber fusion splicers
- Functional products
  - Wire harnesses
  - Communications solutions
  - Energy infrastructure
  - Optical fiber cables
  - Eco wires/cables
- Infrastructure
  - Industrial power cables
  - UV tapes

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History of Innovation

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Three Business Segments

- Electronics & automotive systems
  - Triple insulated wires
  - Electronics component material
- Infrastructure
  - Optical fiber cables
  - Optical fiber fusion splicers
- Functional products
  - Wire harnesses
  - Communications solutions
  - Energy infrastructure
  - Optical fiber cables
  - Eco wires/cables
- Infrastructure
  - Industrial power cables
  - UV tapes

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### History of Multifaceted Technologies and Products

#### Technological Genealogy

- **Magnet Wires**
- Electrolytic copper foils and plating
- **Superconducting cables**
- High-temperature superconducting wires
- **Optical Subsystems**
- Optical signal processing
- **Optical Semiconductors**
- Optical passive components
- **High Density Plating**
- Memory disc materials
- **Shape-Memory Alloys**
- Rolled copper products

#### Insulating Technologies

- **Planar Lightwave Circuit Technologies**
- Sheets
- Strips
- Wires

#### Superconductivity

- **Rubber**
- **Paper**
- **PVC**
- **Polyethylene**
- **Pipes**
- **Foils**
- **Sheets**
- **Extrusion Products**
- **Foaming Technologies**
- **Alloy Design**

#### Energy Conservation and Waste Reduction

- **Creating safe and comfortable living spaces**
- **Energy conservation**
- **Waste reduction**

#### Functional Advancement of Electronics Products

- **Steering Roll Connectors (SRC)**
- Automotive wire harnesses
- **Eco Wires**
- **Micro Foamed Materials**
- **Bridging Foaming**
- **Nano Foaming**

#### Resin Coating Materials

- **Cable-Protecting Pipes**
- **Extrusion Foaming**
- **Resin Coating Materials**

#### Corporate Profile