

# Company Profile



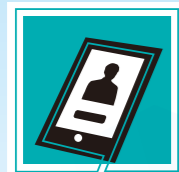
# Our Business

To support our life and society, the Sumitomo Electric Group provides products and technologies in five segments.



## Automotive

Responding to safety, amenity and environmental needs of future motorized society



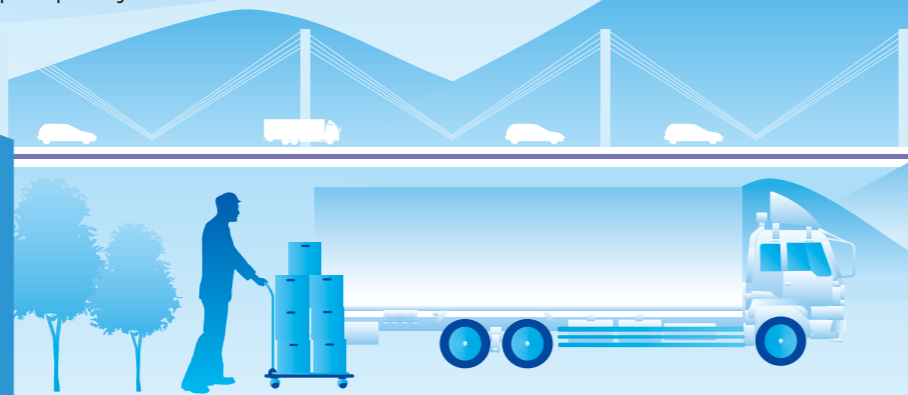
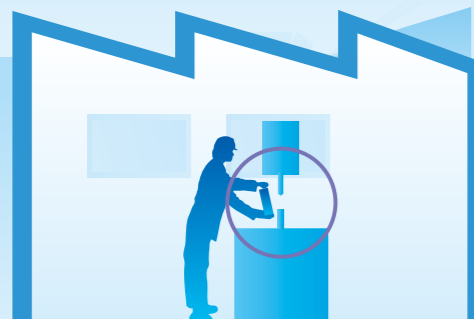
## Electronics

Supporting advancement in the functions and performance of electronics



## Industrial Materials

Using a wide range of technologies for the prosperity of industrial society



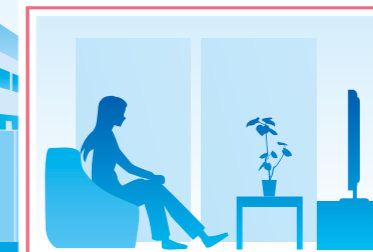
# Our Future

Taking advantage of our strengths in these five segments, we are now taking a step forward towards a completely new field.



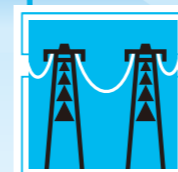
## Responding to New Social Needs

Creating essential products and technologies for the future



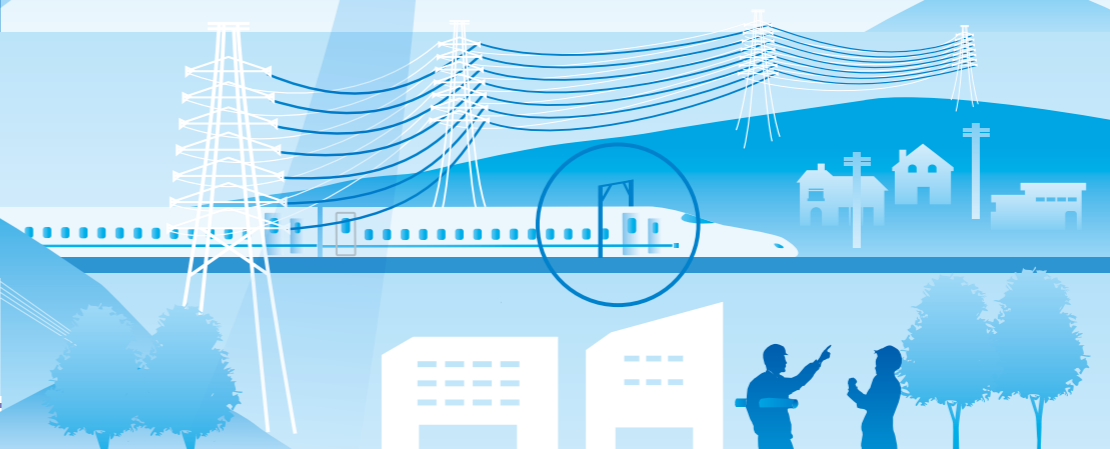
## Infocommunications

Supporting communications



## Environment & Energy

Supporting a stable energy supply



# CONTENTS

- 3 Message from the President
- 5 Company Profile
- 7 History
- 9 Mid-Term Management Plan - VISION 2017
- 11 Business
  - Automotive
  - Infocommunications
  - Electronics
  - Environment & Energy
  - Industrial Materials
- 21 Responding to New Social Needs
- 23 R&D
- 25 Bases Supporting Sumitomo Electric
- 27 CSR
- 29 Global Network
- 31 Subsidiaries & Affiliates

## To become a “Glorious Excellent Company”



Under the Sumitomo Spirit and the Sumitomo Electric Group Corporate Principles, which have guided us at the Sumitomo Electric Group for 400 years, we unwaveringly uphold the basic policy of contributing to society through fair business activities. Since our foundation in 1897, based on electric wire and cable manufacturing technologies, we have conducted our original research and development and strenuously strived for the establishment of new businesses. These efforts have allowed us to create new products and new technologies, as well as diversify our business fields. Currently, we operate our businesses on a global basis in the following five segments: Automotive; Infocommunications; Electronics; Environment & Energy; and Industrial Materials.

“Glorious Excellent Company” – this is the ideal future state of the Sumitomo Electric Group. While sticking to our abiding principles of the Sumitomo Spirit and the Sumitomo Electric Group Corporate Principles, we strive to secure sustainable growth and development.

With the progress of globalization, dynamic paradigm shifts are currently underway in many aspects of international society. The Sumitomo Electric Group will accommodate new needs to be generated by such social changes, through the innovation and combination of our technological capabilities accumulated so far and our wide variety of products. Additionally, by so doing, we will diversify our businesses into new fields to ensure our future growth.

To transform ourselves into a “Glorious Excellent Company,” all the members of our group intend to continue our steadfast efforts to earn trust and confidence widely from not only stakeholders but also other members of society, and to contribute to the establishment of a rich society for everyone in the future.

We hope that we will continue receiving your kind support and encouragement.

*M. Matsumoto*  
President and CEO

### The Sumitomo Spirit

#### Business Principles

- Article 1** Sumitomo shall achieve prosperity based on solid foundation by placing prime importance on integrity and sound management in the conduct of its business.
- Article 2** Sumitomo’s business interest must always be in harmony with public interest; Sumitomo shall adapt to good times and bad times but will not pursue immoral business.

#### 萬事入精 Banji-nissei

*Banji-nissei* means “do your sincere best, not only in business, but also in every aspect of your life.” Originating from the preamble of *Monjuin Shiigaki*, it speaks of the importance of sincerity in all human endeavors.

*Banji-nissei* is a pivotal teaching in the Sumitomo Spirit. Accordingly, Sumitomo personnel are expected to work not only to make money, but also to cultivate their character and grow into better human beings.

#### 信用確実 Shinyo-kakujitsu

The Business Principles Article 1 emphasizes the importance of integrity; that is, being worthy of the trust of others.

#### 不趨浮利 Fusu-furi

In its first part, Article 2 speaks of the importance of working proactively, pursuing profit by quickly and appropriately responding to changes in society and not being content with the status quo. At the same time, Article 2 emphasizes the importance of harmonizing business gains with the public interest and scorns reckless or careless actions in pursuit of easy gain. While *furi* means easy, temporary or short-term gain, the term also implies unfair profit obtained through dishonest means.

In addition to the above, other various principles have been steadfastly handed down to the present.

**“attaching importance to technology,” “respect for human resources,” “long-range planning” and “mutual prosperity, respect for the public good”**

### The Sumitomo Electric Group Corporate Principles

Each company of the Sumitomo Electric Group shall

- Offer the very best goods and services to satisfy customer needs.
- Build technical expertise, realize changes and strive for consistent growth.
- Contribute to creating a better society and environment, with a firm awareness of our social responsibility.
- Maintain high corporate ethics and strive to become a company worthy of society’s trust.
- Nurture a lively corporate culture that enables employee self-improvement.

“Ingenious Dynamics” is the tag line the Sumitomo Electric Group has adopted to succinctly express the driving force that leads us as one solid group in our endeavor to become a Glorious Excellent Company.

**Name** Sumitomo Electric Industries, Ltd.  
**Head Office** 5-33, Kitahama 4-chome, Chuo-ku, Osaka, Japan  
**Established** April 1897  
**Capital Stock** 99,737 million yen  
**President** Masayoshi Matsumoto  
**Employees** 240,865 (As of March 31, 2016)

**Management**

**President & CEO**

Masayoshi Matsumoto

**Executive Vice Presidents**

Fumikiyo Uchioko  
 Mitsuo Nishida

**Senior Managing Director**

Fumiyoshi Kawai

**Managing Directors**

Atsushi Yano  
 Nozomi Ushijima  
 Junji Itoh  
 Makoto Tani  
 Yoshitomo Kasui  
 Takahiro Nakano  
 Akira Nishimura

**Directors (Outside)**

Kazuo Hiramatsu  
 Hiroshi Sato

**Audit & Supervisory Board Members**

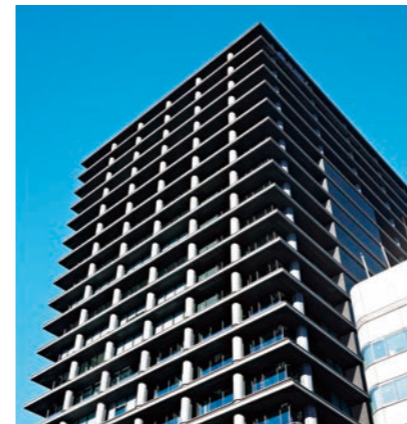
Hideaki Inayama  
 Satoru Ogura  
 Kan Hayashi  
 Katsuaki Watanabe  
 Michiko Uehara

(As of June 2016)

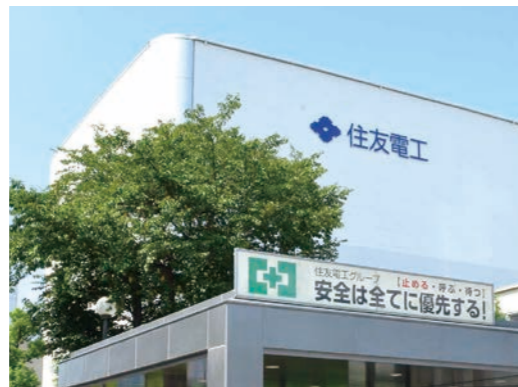
Note: Kazuo Hiramatsu and Hiroshi Sato are Outside Directors.  
 Kan Hayashi, Katsuaki Watanabe and Michiko Uehara are Outside Corporate Auditors.



Head Office (Osaka)



Head Office (Tokyo)



Osaka Works



Itami Works



Yokohama Works

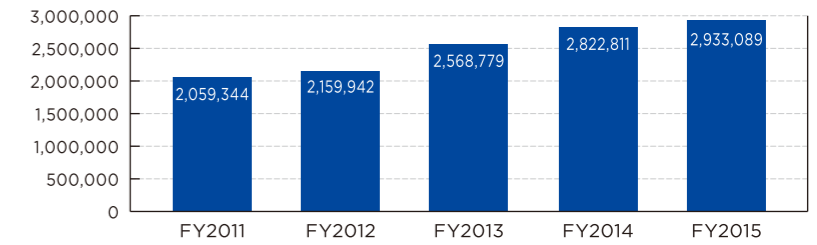


**Consolidated Business Results**

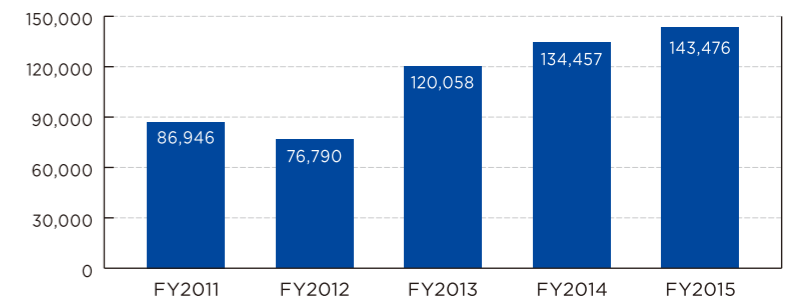
(Our fiscal year begins on April 1 of each year and ends on March 31 of the following year.)

(Millions of Yen)

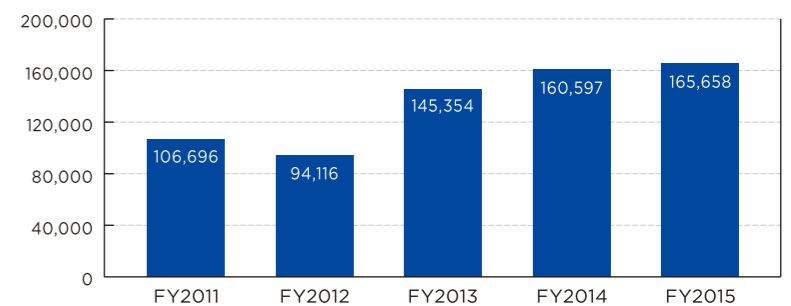
**Net Sales**



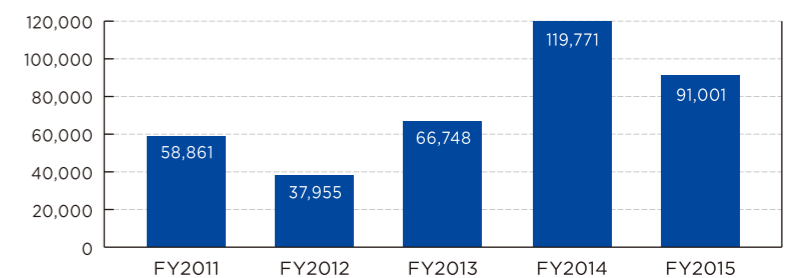
**Operating Income**



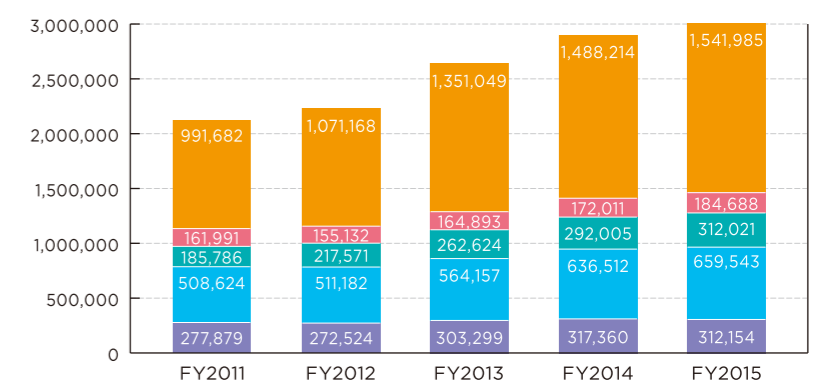
**Ordinary Income**



**Profit Attributable to Owners of the Parent**



**Net Sales by Business Segment**



Above data includes intersegment sales and so their total differs from net sales data.

Automotive Infocommunications Electronics  
 Environment & Energy Industrial Materials & Others

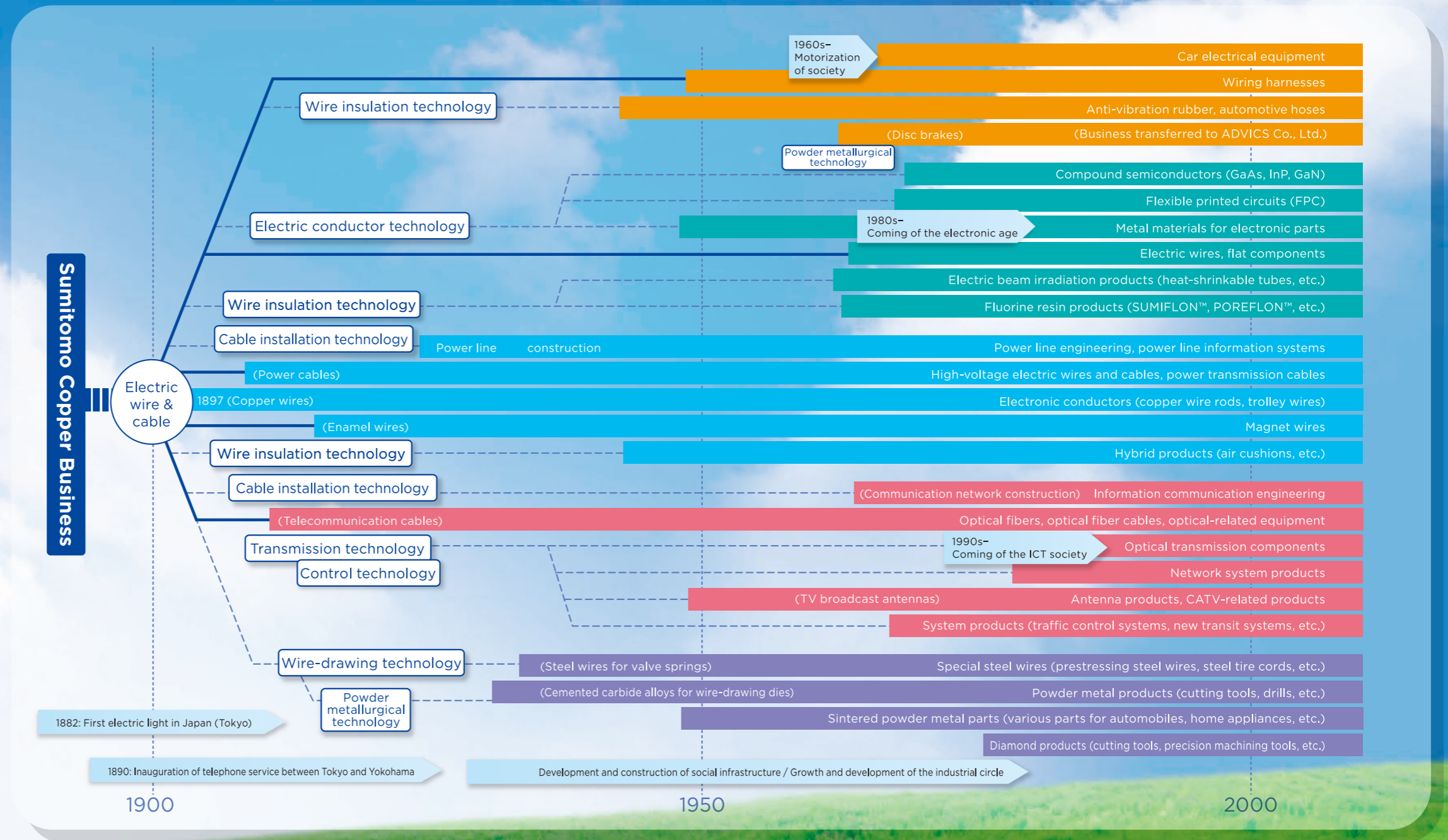
# Sumitomo's years of experience underlying its original technologies

Since the Company's foundation, the Sumitomo Electric Group has strived to extend its expertise in copper wire production, which had evolved from the Sumitomo copper business, to the development of proprietary technologies and new businesses.

Expertise in copper wire production technology was extended to the development of a wide array of products including power and communication cables and electronic wires. Deep understanding of the technologies used for drawing these wires and in-house manufacturing of wire-drawing dies led to the development of other products such as special steel wires and cemented carbide tools. Later on, using knowledge gained in powder metallurgy, we started making sintered parts and diamond products.

Meanwhile, exploring the technology of copper wire conductors, we made breakthroughs with compound semiconductors and superconducting wires. What we learned from wire insulation technology was applied in the development of rubber and plastic products (presently called hybrid products) and electron-beam irradiation products. Bringing together the control and transmission technologies acquired through the manufacturing of power cables and electric wires, we eventually extended our business into the fields of systems and electronics.

Today, standing on the firm foundation of these creative technologies, we are ready to leap into new business fields. At the Sumitomo Electric Group, we remain committed to vigorously carrying out our responsibility of "supporting society," which we have been fulfilling since the day of our foundation.



# History

- 1897 Sumitomo Copper Rolling Works was founded.
- 1900 Started production of coated wires.
- 1908 Started production of power cables.
- 1909 Started trial production of telecommunication cables.
- 1911 Established Sumitomo Electric Wire & Cable Works. Laid first Japan-made high-voltage underground cables.
- 1916 Opened a new factory (now the Osaka Works). Started production of enamel wires.
- 1920 Sumitomo Electric Wire & Cable Works incorporated as a limited company.
- 1931 Started production of cemented carbide tools.
- 1932 Started production of special steel wires.
- 1939 Company name changed to the current name, Sumitomo Electric Industries, Ltd.
- 1941 Opened the Itami Works.
- 1943 Started production of vibration-proof rubber and fuel tanks.
- 1946 Opened a branch office in Tokyo (now the Tokyo Head Office).

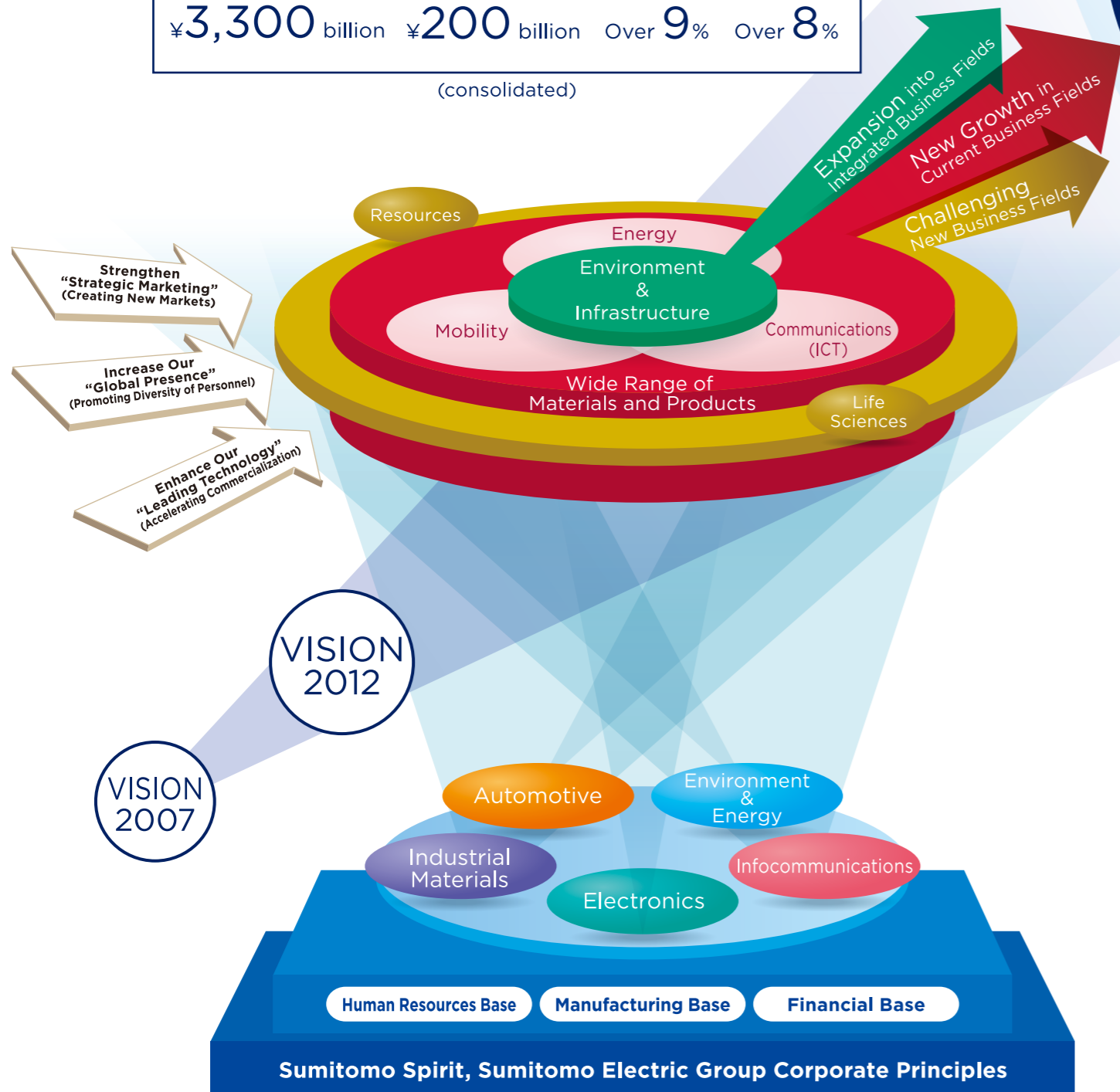
- 1948 Started marketing sintered powder metal products.
- 1949 Entered into the construction business of overhead transmission lines.
- 1957 Delivered the first Japan-made television broadcasting antennas.
- 1961 Opened the Yokohama Works. Delivered the wiring harnesses for four-wheel vehicles for the first time in its history.
- 1962 Started production of IRRAX™ Tube electron beam irradiation tubes. The Head Office was moved from Osaka's Konohana Ward to the present address in Chuo Ward.
- 1963 Started production of disc brakes.
- 1964 Started production of electron beam irradiation wires.
- 1968 Entered into the business of traffic control systems.
- 1969 Established its first overseas production subsidiary in Thailand (SIAM Electric Industries Co., Ltd.). Started development of flexible printed circuits (FPCs).
- 1970 Started production of compound semiconductors.
- 1971 Opened the Kanto Works.

- 1974 Started production of optical fiber cables.
- 1975 Contracted to construct a power transmission line in Iran.
- 1976 Received an order for a large telecommunications network project in Nigeria.
- 1978 Delivered and put into operation the world's first bi-directional fiber optic CATV system "Hi-OVIS."
- 1981 Delivered the fiber optic LAN system for the first time in its history.
- 1982 Succeeded in producing the world's largest synthetic monocrystalline diamonds (1.2 carats).
- 1996 Developed a technology for producing long-length oxide high-temperature superconducting wires.
- 1998 Developed and started marketing ecology wires and cables.
- 1999 Sumitomo Electric Fine Polymer, Inc. (fine polymer products) started operation.
- 2001 J-Power Systems Corporation (high-voltage power cables) started operation.
- 2002 Sumitomo Electric Networks, Inc. (network equipment) started operation.

- Sumitomo (SEI) Steel Wire, Corp. (special metal wires) started operation.
- Sumitomo Electric Wintec, Inc. (magnet wires) started operation.
- 2003 Sumiden Hitachi Cable Ltd. (wires and cables for buildings and industrial equipment) started operation. Sumitomo Electric Hardmetal Corp. (powder alloy and diamond products) started operation.
- 2004 A.L.M.T. Corp. was made a wholly-owned subsidiary.
- 2006 The HTS cable used in a power transmission grid in the U.S. started supplying electricity.
- 2007 Sumitomo Wiring Systems, Ltd. was made a wholly-owned subsidiary. Nissin Electric Co., Ltd. was made a consolidated subsidiary.
- 2008 Opened the Technical Training Center. Sumiden Friend, Ltd. (Special subsidiary) started operation.
- 2009 Sumitomo Electric Device Innovations, Inc. was organized.
- 2010 Opened the WinD Lab, a new laboratory building. SEI Optifrontier Co., Ltd. was organized.
- 2014 J-Power Systems Corporation was made a wholly-owned subsidiary.

Mid-Term Management Plan VISION 2017  
(for FY2013–FY2017)

VISION 2017			
Net Sales	Operating Income	ROA	ROE
¥3,300 billion	¥200 billion	Over 9%	Over 8%
(consolidated)			



# Glorious Excellent Company

## “Glorious Excellent Company” – this is what we want to be in the future.

### Glorious

The word “Glorious” expresses qualitative characteristics, such as a company’s trustworthiness in society, reputation, corporate culture, etc. Concisely, a Glorious Company is a company trusted and respected by society.

We can become a Glorious Company by understanding and acting out in our respective day-to-day duties the Sumitomo Spirit and the Sumitomo Electric Group Corporate Principles.

### Excellent

The word “Excellent” expresses the ideal state of a company in quantitative terms, that is, business performance. An Excellent Company is a company with excellent performance in sales, revenues and profitability.

The Sumitomo Electric Group aims to become an Excellent Company by achieving the numerical goals contained in the mid-term management plan VISION 2017.

### Overall Strategy of VISION 2017

In VISION 2017, our group will leverage our outstanding technology and focus on six fields of business which are essential for society—the three fields of mobility, energy, and communications (ICT) where we have a broad range of materials and products; and the new fields of life sciences and resources. Through ceaseless innovation, we will create and globally provide new value, covering the full spectrum from materials to systems and solutions.

We aim to take a further step toward becoming a Glorious Excellent Company by:

- (1) Making the Sumitomo Spirit and the Sumitomo Electric Group Corporate Principles the basis of our business activities, and holding fast to the three bases of our group’s business: human resources, manufacturing, and finances;
- (2) Raising the banner of “innovation,” achieving new growth in current business fields, expansion into integrated business fields, and challenging new business fields;
- (3) Making high-priority efforts to strengthen “strategic marketing,” increase our “global presence,” and enhance our “leading technology”; and
- (4) Attaining our numerical targets of ¥3,300 billion in sales, ¥200 billion in operating income, over 9% ROA, and over 8% ROE.



## Automotive

### Responding to safety, amenity and environmental needs of future motorized society

With a focus on the interface between the vehicle and driver, Sumitomo Electric offers various products to the global market. A representative example of these products is a wiring harness that transmits electric power and information to various points in an automobile. Growing public demands for more eco-friendly vehicles require the supply of sophisticated hybrid and electric vehicle parts based on a wide variety of advanced technologies. Keeping in mind the harmony between vehicles and people in the next generation, Sumitomo Electric will continue developing a variety of new automotive products in order to contribute to the creation of a comfortable automobile society.



## Wiring Harnesses

Wiring harnesses are laid throughout an automobile and play a key role in transmitting energy and information, similar to human blood vessels and nerves. The Sumitomo Electric Group (Sumitomo Electric, Sumitomo Wiring Systems, Ltd., and AutoNetworks Technologies, Ltd.) is integrally developing a global wiring harness business.



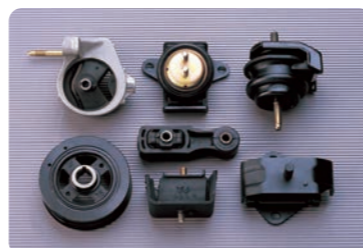
### Pipe-Shielded Wiring Harness for HEVs

Sumitomo Electric provides pipe-shielded wiring harnesses comprising electric wires covered with an aluminum conduit for protection from shock and electromagnetic noise.



### Quick Charging Connector for EVs

We also provide charging plugs and connectors that are used to supply electricity from battery chargers to electric vehicles and plug-in hybrid vehicles.



### Anti-vibration Rubbers

Anti-vibration rubbers are functional devices essential for absorbing or suppressing vibrations from the engine and road surface, thereby ensuring safe and comfortable driving. Today, electronically controlled sophisticated devices are becoming popular.

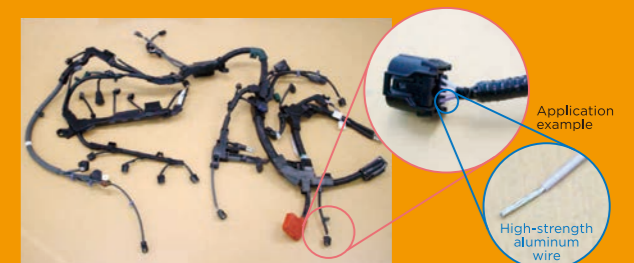


### Electronic Control Units (ECUs)

As the functionality of automobiles becomes more sophisticated, the number of onboard devices is increasing. To provide more safety and convenience, the electronic control unit (ECU) controls these onboard devices as the command center or brain of an automobile.



## PICK UP



### High-Strength Aluminum Wiring Harness

Automobiles are required to be more fuel efficient and have lower CO<sub>2</sub> emissions, and weight reduction of automobiles is the key to this challenge. The Sumitomo Electric Group has been producing aluminum wiring harnesses since 2010. Comprising aluminum wires in place of conventional copper wires, these harnesses have contributed to dramatic reduction of automobile weight without deteriorating their functional reliability as conductors. In 2015, the Group succeeded in developing a high-strength aluminum alloy wire with higher strength than that of copper wire. Aluminum wiring harnesses consisting of the newly developed wires are laid even along the periphery of engines and other equipment that vibrate intensely.



## Infocommunications

### Supporting communications

Sumitomo Electric provides various solutions that make our society safer, more secure, and more comfortable. A wide array of these solutions include optical fibers/cables and other telecommunication-related products necessary for FTTH and other optical network construction, ITS-related products, and access-based networks. We will continue to develop innovative technologies and products and supply them to customers, thereby contributing to the construction and upgrade of broadband network infrastructures.



## Optical Fiber Cable

Thin, hair-like optical fiber is a high-performance transmission media that can propagate signals for dozens of kilometers.

Optical fiber is free from electromagnetic induction noise and so features stable, high-speed communication over long distances.



### Optical Fiber Fusion Splicer

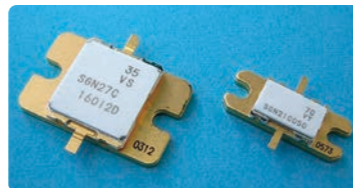
These devices, indispensable for constructing optical networks, connect glass optical fibers easily within minutes by using electric discharge. Its compact design and light weight make this device easy to use even in restricted workspaces.



### Optical Transceivers

Optical transceivers are needed for high-speed network infrastructure build-outs.

Functioning as electrical-to-optical or optical-to-electrical converters, optical transceivers enable transmission of large volumes of data over long distances. Optical transceivers support and enable superior transport for a wide range of applications including broadband cable transmission, data centers and network backbones.



### GaN Transistors

GaN transistors are used in broadband, data-heavy wireless communication systems such as mobile communication (including LTE), satellite communication, communication between base stations, and high-resolution weather observation and air traffic control radar, etc.



### Broadband Network Service Products

We help achieve a convenient information communication society by supplying key devices for new communication and broadcast services (e.g. GE-PON systems, cable modems with built-in Wi-Fi routers, IP set top boxes) and by offering comprehensive system integration services that meet the needs of customers.



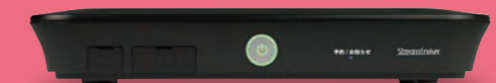
### Traffic Control System Driving Safety Support System (DSSS)

ITS is a new system that links people, automobiles, and society through information to enhance safety and security while protecting the global environment.

For example, a driving safety support system (DSSS) alerts drivers based on a variety of information from ITS radio system, infrared beacons and other devices and the running condition of the vehicle. ITS is also used as a traffic control system to smooth traffic flow by controlling traffic signals. ITS helps reduce CO<sub>2</sub> emissions and supports a safe and comfortable motorized society.



## PICK UP



### IP Set Top Box for 4K

Our IP set top box "StreamCruiser™" has been chosen for the first commercial 4K video distribution service in Japan. This product supports the latest video compression technologies, and high-quality 4K video distribution services are made possible through 4K (60 fps) IP streaming playback. The number of pixels in 4K videos is four times that of full HD videos, dramatically improving the image quality. This product can deliver vivid high-resolution images to the audience.





## Electronics

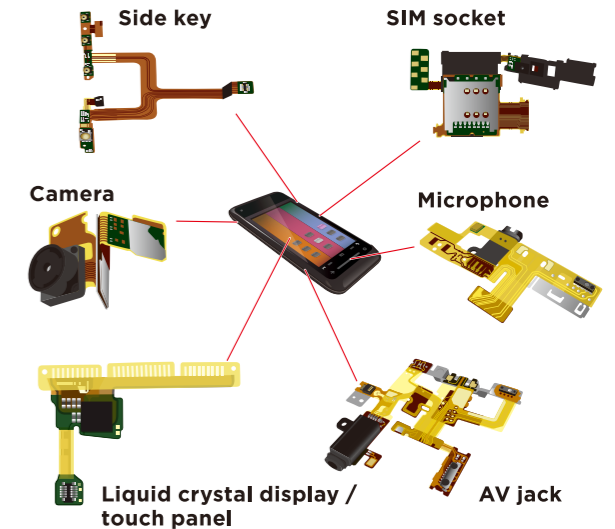
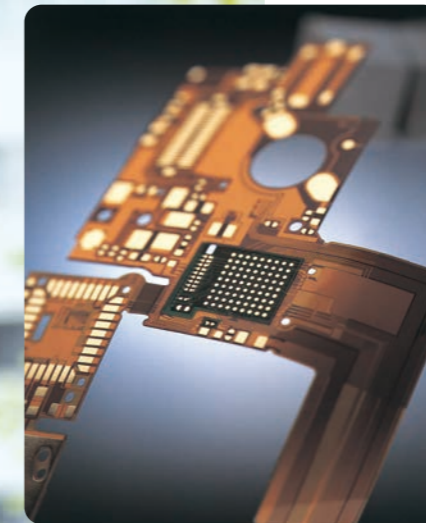
### Supporting advancement in the functions and performance of electronics

In the electronics field, devices are required to be ever smaller, lighter, more functional, and more sophisticated. To meet these requirements, Sumitomo Electric has been expanding its product lineup by continuously developing new materials, wires and other parts. Sumitomo Electric's cutting-edge technologies have been employed effectively for advanced medical, automotive and aircraft equipment, as well as for widely used products such as smartphones and tablet PCs.



## Flexible Printed Circuits (FPCs)

The flexible printed circuit is a wiring material made by printing electrical circuits on an extremely thin insulated film. Owing to its outstanding features, such as light weight, high heat resistance, and superior stretching property, such a printed circuit provides flexibility in electric circuit design. This product helps downsize and sophisticate digital apparatuses including mobile phones, tablets, game consoles, and hard disk drives.

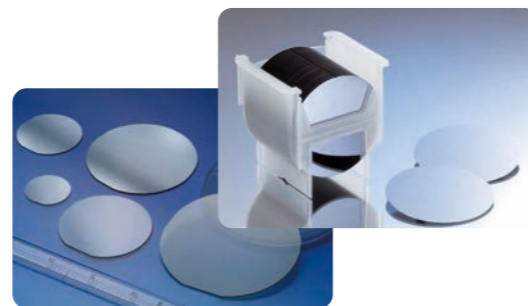
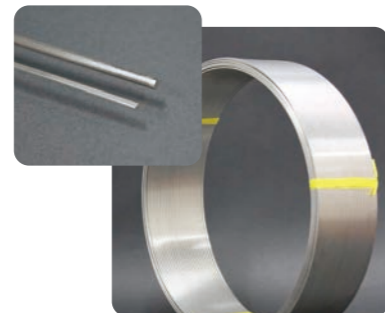


### SUMI-CARD™

SUMI-CARD™ flat cable is ideally suited for high-density mounted electronics, with an easy single plug/unplug interface to connectors. Thanks to its extreme lightweight, thin design, SUMI-CARD™ is widely used to reduce the size and weight of digital products we use every day, such as TVs, office automation equipment, and gaming consoles.

### Ni Alloy Wires for Engine Spark Plugs

This material is used to make automotive engine ignition plugs. Over the years, Sumitomo Electric has kept the top global market share of this material. The Company has developed a unique alternative test method that can be carried out without using an engine, and successfully shortened the alloy testing time by 75%. Recently, the Company has also developed a material suitable for making eco-friendly engine ignition plugs.



### Compound Semiconductors (Gallium Arsenide/Gallium Nitride/Indium Phosphide)

Compound semiconductors are used for laser oscillators and photosensitive elements of optical fiber communication systems; various types of transistors for mobile phones and other wireless communication systems; light sources of CDs, DVDs, Blu-ray disc devices; and white LEDs for lighting.



### SUMITUBE™

SUMITUBE™ is heat-shrinkable tubing used for various purposes, such as bundling, heat and corrosion protection, insulation, and waterproofing of electric wires and harnesses in household electric and electronic appliances, automobiles, aircraft, and other apparatuses.



### Polyimide Tube Rollers

Highly tough and heat-resistant, this product is used as a toner fixing device for laser printers and other office automation equipment.

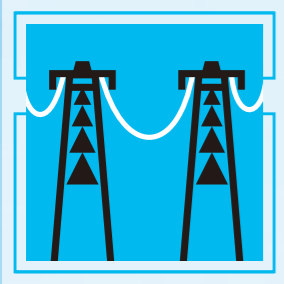


## PICK UP



### Thunderbolt 3 Cable

The Thunderbolt 3 cable is an interface cable that enables high-speed bidirectional communication at a rate of 40 Gbps, two times that of the previous model, Thunderbolt 2. With next-generation standard-compliant USB Type C connectors at both ends, this cable is applicable for reversible plug orientation and 100 W power supplies. Suited to high-capacity transmission, the Thunderbolt 3 cable is expected to be used for docking stations, 4K display connections, and many other purposes.



## Environment & Energy

### Supporting a stable energy supply

Since its establishment, Sumitomo Electric has made efforts to develop wire and cable technologies that are essential for ensuring a stable power supply. The Company is now moving toward new businesses in the field of renewable energy and smart grids to supply environmentally friendly and energy-efficient products to the global market, thereby contributing to upgrading social infrastructure.



## Power Cable

Electric power energy is increasing its importance in the fields of environment and energy. Sumitomo Electric contributes to the stable supply of electric power by providing various types of electric wires and cables that are used for electric power transmission and distribution networks between power generation plants and consumers. Recently, the demand for ultrahigh-voltage submarine DC cables has particularly increased for grid interconnections between electric power companies and between countries, as well as for large-scale offshore wind power generation. Sumitomo Electric meets these demands by supplying and laying its cables.



High-Voltage Optical Fiber Composite Submarine Cables



Cables being loaded for shipping



### Superconducting Cable

Electric cables made from bismuth-based superconducting wires with zero electrical resistance and strong electromagnets help improve energy efficiency and thereby save energy. In December 2013, Sumitomo Electric successfully completed Japan's first power transmission demonstration using its superconducting cables. The Company will promote technical innovation to fully use the superconductor technology.



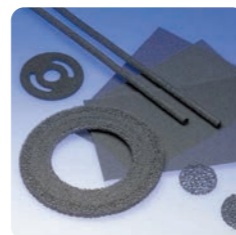
### Magnet Wires

Magnet wires are widely used in household electric appliances, motors and coils of electronic devices, and automotive electrical components in order to convert electrical energy to magnetic energy.



### Air Spring for Railroad Vehicles

These products are widely used around the world in subways, commuter trains, and high-speed trains like the Shinkansen. Our air springs can provide a comfortable ride by absorbing the vibrations of a running train. We utilize highly reliable rubber for air springs based on our electric wire coating technologies.



### Porous Metals CELMET™

CELMET™ has far higher porosity than porous materials made by sintering metal powder or metallic fibers. Thanks to this feature, CELMET™ is widely used to make various industrial products including nickel-metal hydride batteries for hybrid vehicles and industrial deodorizing catalyst carriers.



### Ecology Cables

These cables are made from materials that generate minimal amounts of dioxin and other toxic substances even when incinerated. Sumitomo Electric is also making efforts to protect the environment by supplying eco-friendly and recyclable cables that are easier to separate and recover than conventional cables.

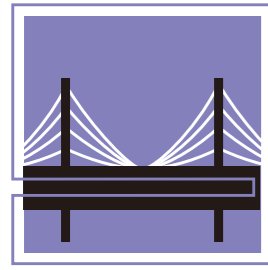


## PICK UP



### Copper Wire Rod

The history of Sumitomo Electric's wire rod production can be traced back to the time of its establishment. Since then, Sumitomo Electric has developed a variety of unique products made from wire rods. Wire rods are the base materials of Sumitomo Electric Group's products, such as high-voltage, large-capacity underground/submarine cables; wiring harnesses that function as the blood vessels and nerves of automobiles; and magnetic wires used for various electronic parts.



## Industrial Materials

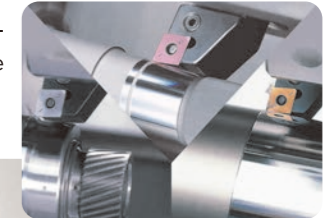
### Using a wide range of technologies for the prosperity of industrial society

Taking advantage of its material development capabilities based on electric wire/cable drawing technology, Sumitomo Electric has developed various products with unique features, including PC steel wires, steel tire cords, and other special steel wires essential for civil structure construction. The company also supplies a wide variety of superior materials including sintered parts used in automobiles and household appliances, and synthetic diamonds, called the "ultimate material." Various products made from these sophisticated industrial materials support the bases of industries, thereby contributing to the development of society.



## Cutting Tools (IGETALLOY™/SUMIBORON™ and SUMIDIA™)

Cutting tools are used in various metalworking processes such as cutting, shaping, and drilling. Sumitomo Electric provides a wide variety of cutting tools, including IGETALLOY™, a cemented carbide alloy characterized by hardness rivaling diamond or cubic boron nitride and steel-like toughness, as well as SUMIBORON™/SUMIDIA™, whose cutting edges are made from cubic boron nitride or ultrafine diamond particles. Through these cutting tools, the Company has long contributed to enhancing productivity and reducing costs in the field of machining.



### Special Steel Wire (Spring Steel Wire, Steel Tire Cord)

Spring steel wires are used in applications such as automotive engine valve springs, while steel tire cords are used to reinforce radial tires. These products ensure comfortable driving by meeting automobile manufacturers' needs for further improvements in energy savings, safety, security, and ride quality.



### Special Steel Wires (Tensioning Materials)

Tensioning materials for prestressed concrete (PC) are used to make high-strength concrete structures by applying high compressive force to the concrete. These materials are indispensable for constructing bridges, storage tanks, and other large structures.

### Sintered Powder Metal Parts

These products are made by utilizing powder metallurgy technology (sintering), a method of producing parts by baking compacts that are molded by compressing metallic powder. Sintering allows for the creation of highly accurate and intricately shaped parts, and is popularly used to make automotive engine components and drive train parts, as well as air conditioner parts.



### High Performance Powder Metallurgy Aluminum Alloys (SUMI ALTOUGH™)

This aluminum alloy is made from rapidly solidified alloy powder. Due to its superiority to conventional aluminum products in strength, wear resistance, heat resistance, machinability and other physical properties, this new alloy is most suitable for meeting the need for lightening automotive and other machine parts.



### Heatspreader Materials

Copper molybdenum, copper tungsten, AlN ceramics, diamond, and other high-performance heat-sink materials are widely used to dissipate heat from high-power semiconductor chips installed in electric/hybrid electric vehicles, electric power converters, communication equipment and LED modules.

### Diamond and CBN Tools

Grinding wheels and precision cutting tools made from diamonds and CBN are used for high-accuracy machining of automotive parts as well as precision parts used in semiconductor and electronic devices that support the development of the IT industry.



## PICK UP



### Nano-Polycrystalline Diamonds

Sumitomo Electric has been engaged in the development of diamonds for over 40 years, during which the company has advanced its unique ultra-high-pressure technology to release various products. SUMIDIA™ BINDERLESS is the ultimate new nano-polycrystalline diamond having hardness higher than that of single crystal diamonds and overcoming cleavage, a shortcoming of single crystal diamonds.

## Responding to New Social Needs



Taking advantage of our assets accumulated in a wide range of business fields, we will contribute to the establishment of a new social infrastructure

Utilizing our assets accumulated in a wide range of business fields explained so far, our group will present solutions for future social needs.

An example of such efforts is the development of a smart energy system, which is necessary for establishing a new power and energy infrastructure. Taking advantage of our strength as a manufacturer of a full range of products in a value chain consisting of power transmission, distribution, storage, and use, we are able to present proposals ranging from concepts and designs to solutions.



Energy Management System (EMS)



Superconductor Electric Vehicle



Photovoltaic Systems  
(Photo credit: Tokyo International Air Cargo Terminal Ltd.)



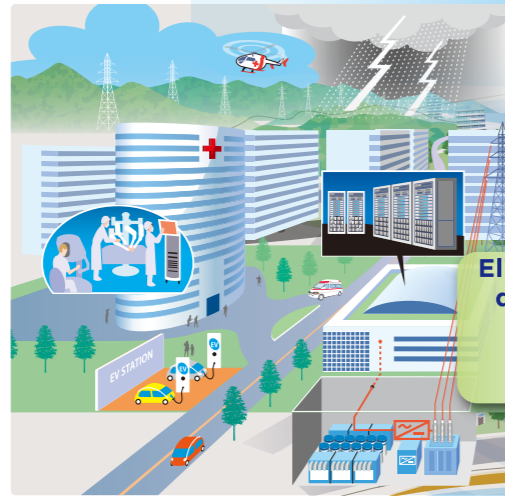
Concentrator Photovoltaic (CPV) Systems



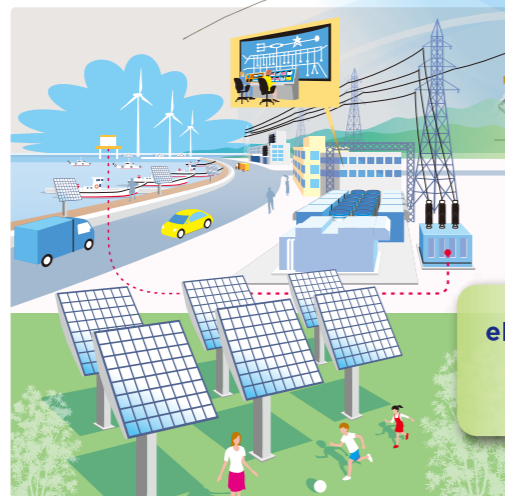
Maritime Wind Powered Generators



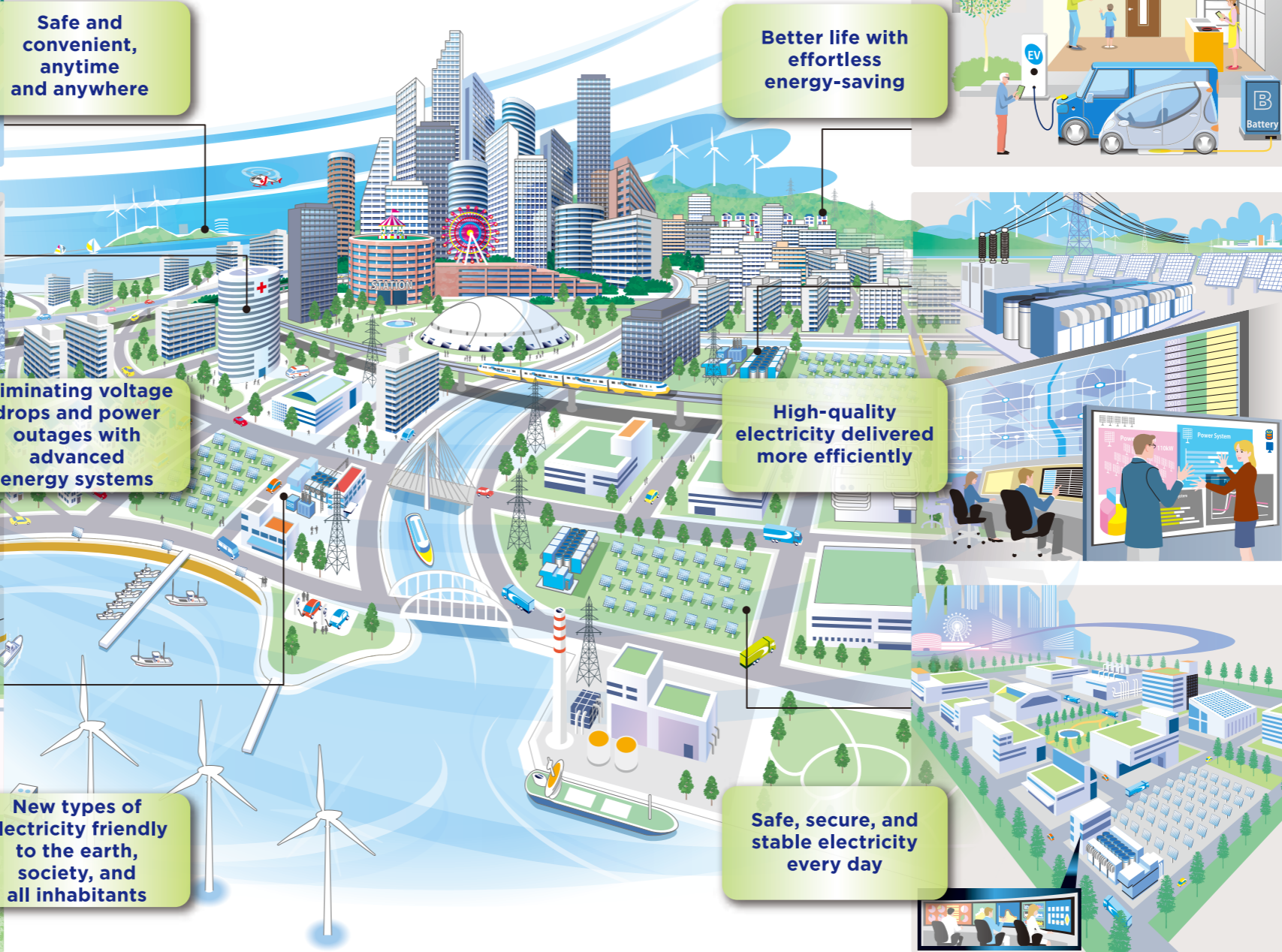
Safe and convenient, anytime and anywhere



Eliminating voltage drops and power outages with advanced energy systems



New types of electricity friendly to the earth, society, and all inhabitants



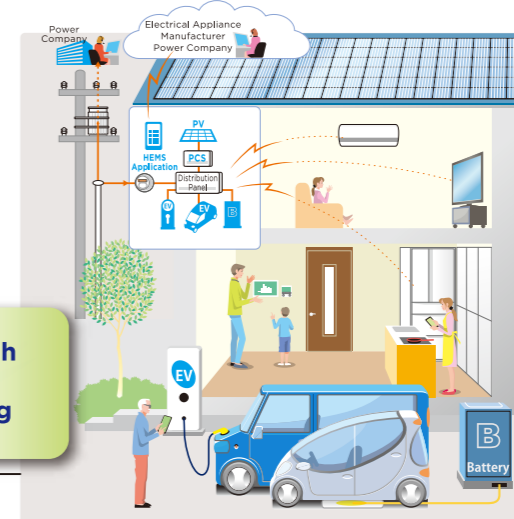
Better life with effortless energy-saving

High-quality electricity delivered more efficiently

Safe, secure, and stable electricity every day

## Smart Energy System Proposed by the Sumitomo Electric Group

Providing high-quality electricity and energy that is safe, secure, stable, and environmentally friendly



Power Conditioner for Photovoltaic System



Small Battery "POWER DEPO™ II"



Smart Distribution Board



Redox Flow (RF) Battery System



Capacitor Voltage Transformer



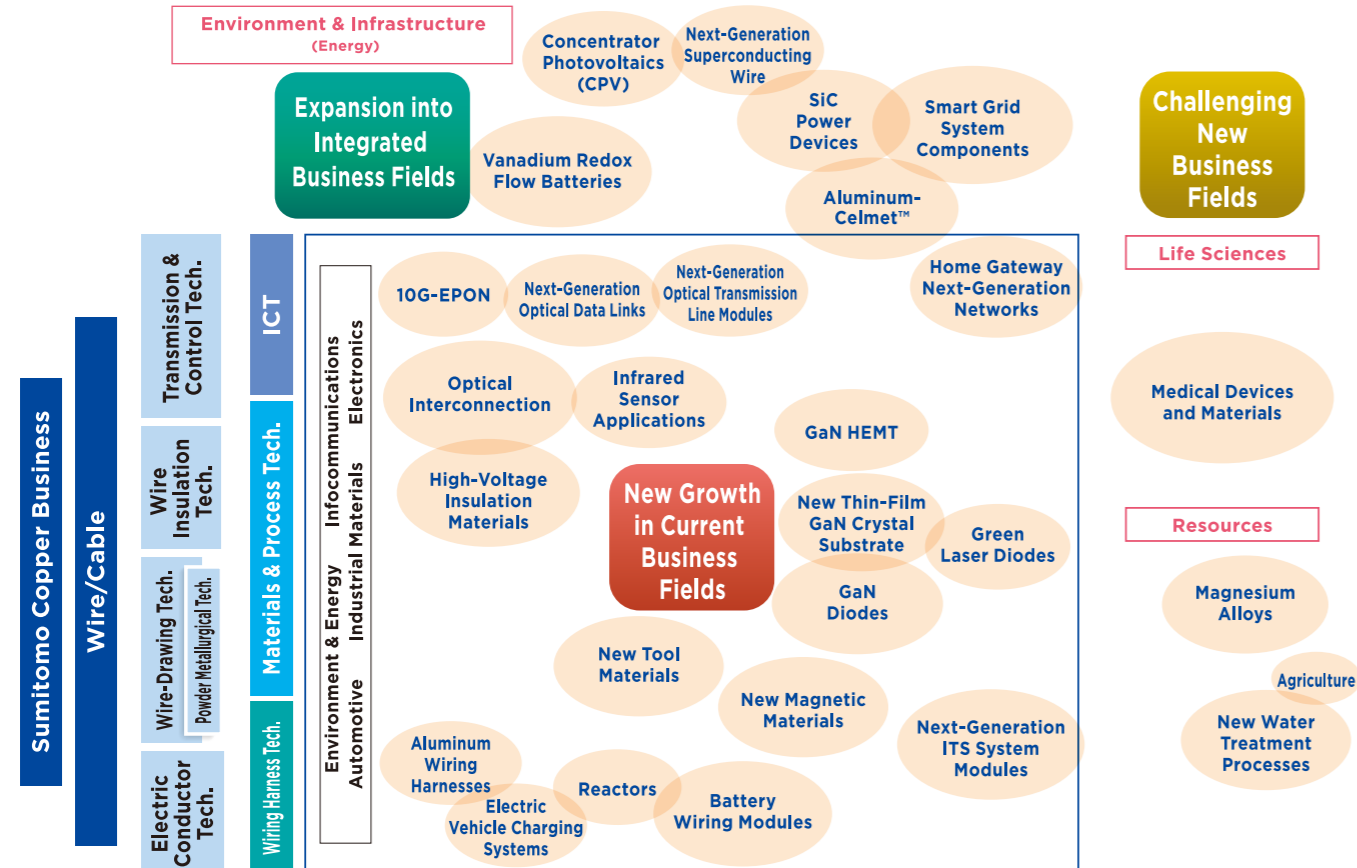
Harmonic Filter Equipment



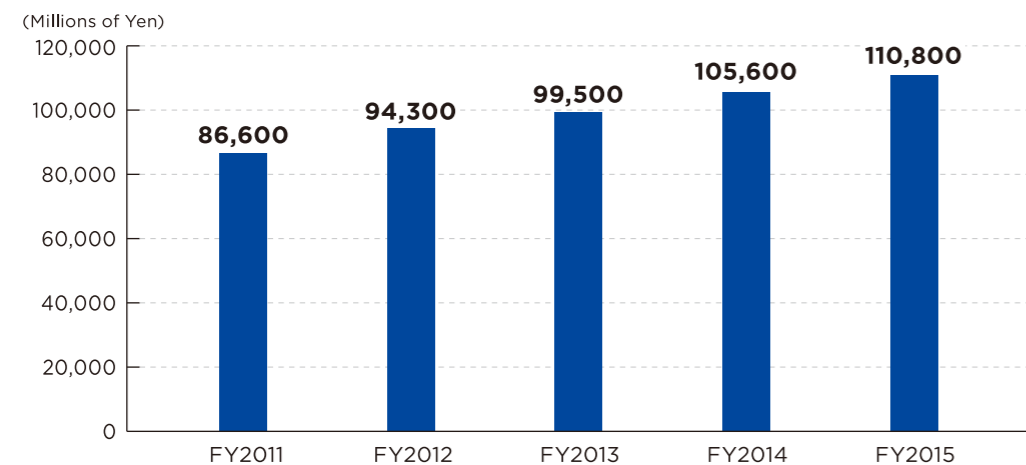
Power Capacitor

# Promoting research and development with due consideration for the future and creating innovative technologies and products

Technology is the engine of the future and the very source for growth. From our origins as a copper business, we have developed a wide variety of technological bases. We will continue striving to create new technologies and products with due consideration for future social needs, and further accelerate our commercialization of technology in response to this time of rapid change.

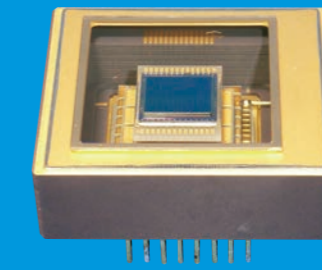


## Research and Development Expenses



### Low-Loss Optical Fiber

Sumitomo Electric has developed a low-loss fiber optics technology and broken its own world record, reducing transmission loss to 0.149 dB/km (at 1,550 nm wavelength). This optical fiber is ideal for high-speed, high-capacity digital coherent communication systems rapidly coming into wide use. Specifically, the total cost of submarine optical cable systems and the number of submarine repeaters can be reduced with the use of this fiber due to the increased information transmission capacity. This fiber has already been adopted in new cable system installations.



### Advanced Near-Infrared Image Sensors with High Sensitivity and Low Noise

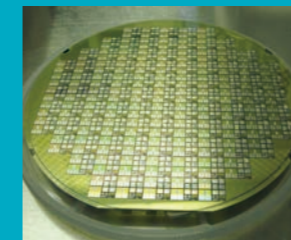
We have developed near-infrared high-quality image sensors having a high photo sensitivity up to 2 μm and low noise by applying the new quantum well structure and utilizing the technologies developed for optical communication devices. By visualizing things that cannot be detected by the human eye, these sensors are expected to be applied in various applications, including process control and quality inspection in plants, infrastructure deterioration diagnosis (e.g. of bridges), and life science.



### Magnesium Alloys

Magnesium alloys are the lightest of all structural metals, and are therefore expected to contribute to reducing environmental burdens in ways such as improving automobile fuel efficiency. Sumitomo Electric has developed magnesium alloys featuring excellent strength, corrosion resistance and processability. The wide range of promising application fields includes mobile devices, automobiles, railroad equipment, medical apparatuses and welfare devices.

### SiC Transistors on Epitaxial Wafer

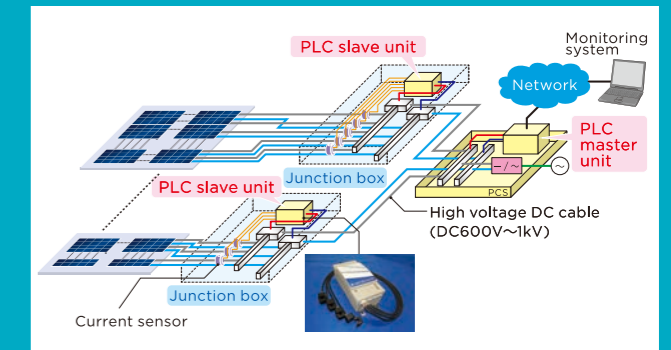


### 3,300V, 400A Full SiC Power Module



### High-Quality SiC Crystal and Epitaxial Wafers

Silicon carbide (SiC) is a promising material for high-power and high-efficiency power devices which promote an advanced, energy-saving society. We are developing SiC crystals and epitaxial wafers using high-quality and cost-effective growth technology (MPZ™). Newly designed SiC power transistors and modules with low power loss and high blocking voltage are also being developed. Our power system equipment will incorporate these SiC power devices in the near future.



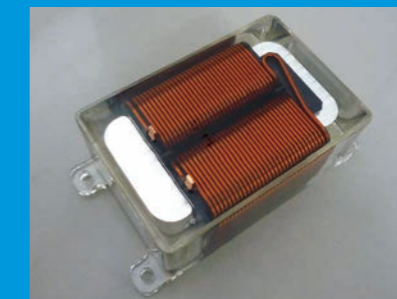
### SSMAP (Solar Cell-string Monitoring & Analysis System by PLC)

Current mega-solar systems comprise tens of thousands to hundreds of thousands of panels, and it is difficult to detect the degradation of panels from the total generated electricity decrease. We have commercialized a monitoring system, using the PLC technology that employs, as a communication medium, power cables incorporated in mega-solar systems, and enables the detection of generated electricity from each string (a row of 14-22 series-connected photovoltaic panels).



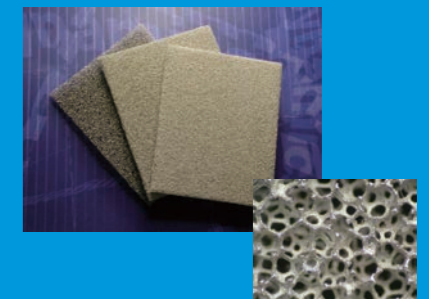
### POREFLON™ Modules

Using PTFE (polytetrafluoroethylene), which has excellent chemical resistance, heat resistance and durability, we have developed a porous separation membrane making the best use of our unique processing techniques and created the POREFLON™ module for water treatment systems. This product features various characteristics, such as high strength and high permeability. In addition, it can be cleaned with various chemicals, and is easy to handle thanks to the effects of hydrophilic surface treatment. As a result, the product can be used in a wide variety of water treatment applications. POREFLON™ modules come in two types - submerged type and pressurized type - allowing the selection of an appropriate type depending on the usage.



### Dust Core Reactor

Eco-friendly vehicles such as HEVs, PHEVs, and EVs incorporate various magnetic components to increase motor power, transform supply voltage and eliminate noise. Applying our proprietary electromagnetic and thermal design and reliability-assessment technologies to powder magnetic core materials, we develop magnetic components such as reactors and choke coils to respond to needs for small, light and high-performance products.



### Aluminum-Celmet™

We have developed a porous aluminum sheet Aluminum-Celmet™ that features a three-dimensional mesh structure and a maximum porosity of 98%, the same as existing Celmet™ (nickel). Lithium-ion battery electrodes made from this material boost battery performance. Thus Aluminum-Celmet™ is expected, for example, to facilitate the development of longer-range electric vehicles (EVs).

## Bases Supporting Sumitomo Electric



## Bases Supporting Sumitomo Electric

The capability of individual members of the Sumitomo Electric Group is the prime motor of our business development. To improve each member's capabilities and achieve VISION 2017 and the major goal of becoming a Glorious Excellent Company, we are setting up a work environment where all of our employees, each with their own system of values, can work with enthusiasm. We inherit and enhance the art of manufacturing nourished since the establishment of our company.

### Promotion of Global HR Management

Sumitomo Electric Group's business activities are continuously becoming more diverse - in technologies, markets, geographical locations and more - involving over 240,000 employees in about 40 countries around the world. We believe that for Sumitomo Electric Group to develop further globally and continue making significant contributions to society, it is essential that we fully mobilize the Group's technologies, products, business models and all other resources and acknowledge that it is employees that make all our endeavors possible.

In September 2011, we decided to adopt the "Global Human Resource Management Policy" as the Group's common basic worldwide policy, thereby clearly stating the Group's commitment to truly global human resource management. With this policy, Sumitomo Electric Group aims to accelerate globalization from the aspect of human resources and organization, provide various career opportunities regardless of nationality, race, gender or age, and pursue globally "the right person in the right position" along with diversity in order to fulfill our policy.

#### Sumitomo Electric Group Global Human Resource Management Policy

We provide workplaces where all the employees can work actively, grow both personally and professionally through work, achieve self-actualization, and contribute to society.

We offer various career opportunities and globally pursue "the right person in the right position" regardless of race, ethnicity, national origin, religion, age, gender, gender identity, sexual orientation, or disability.

We value and promote diversity in the workplace in order to enhance the creativity of the organization and to sustain the growth of the business.

We develop global leaders who lead and give energy to our global business. Global leaders are those who understand and share the Sumitomo Spirit and the Corporate Principles and can lead highly diversified teams.

### Developing Human Resources

Our human resources development is based on our traditional spirit of "People make the enterprise." The cornerstone of human resources development resides with each staff member's strong willingness for self-development, as well as with instructions by and dialogues with superiors at worksites. Under the concept of the SEI University, the Group offers a wide variety of training programs. By so doing, we provide strong support for self-development, as well as for instructions by and dialogues with superiors, and strive to achieve human resources development in compliance with our corporate philosophy and management strategy.

#### • Desired Human Resources

Those who solidly adhere to the Sumitomo Spirit, understand the corporate management policy, remain faithful to the basics of their work while having high levels of knowledge and skill, and are globally functional.

#### • Fundamental Principles of SEI University

- (1) Disseminating the Sumitomo Electric Group's corporate philosophy
- (2) Sharing the Sumitomo Electric Group's management strategies and vision
- (3) Developing employees' abilities, skills and knowledge so that they may play an active role in the global community

### Enhancing Manufacturing Capabilities

To further strengthen our competence in the areas of Safety, Environment, Quality, Cost, Delivery, and Research & Development (SEQCDD), we promote company-wide activities to enhance our manufacturing capabilities such as safety activities, the Action ECO-21 Campaign, and the QR-1 (QR: quality and reliability) Campaign.

Under the leadership of the committee in charge, all divisions are working hard to improve their manufacturing structures based on the two key concepts of quality assurance covering all the processes undertaken at their facilities and completing tasks in time. The viewpoints and expertise gained through these activities are learnt, passed down, and improved in the Technical Training Center established in October 2008, along with other manufacturing techniques and skills that the Group should share and develop on a global basis.



Technical Training Center (TTC)

# For a better society and environment

The Sumitomo Spirit, which gives top priority to social credibility and corporate ethics, is deeply instilled in the Sumitomo Electric Group.

With the Sumitomo Spirit and the Sumitomo Electric Group Corporate Principles serving as the basic value standards that guide us, we will continue to create social values and contribute to a better society and environment through business operations that comply with all applicable regulations.

We have specified five CSR core categories: Products & Services, Supply Chains, Human Resources, Environmental Preservation, and Social Contribution. Based on this approach, we will fulfill our responsibilities to stakeholders and establish good relationships with all of them. To transform into a Glorious Excellent Company, we will strive to secure sustainable growth.

## Environmental Activities

We regard global environmental conservation as one of the top priorities in management. To promote our environment-oriented management, we set company-wide indexes and long-term targets for systematic actions regarding mitigation of global warming, resource savings, recycling, prevention of environmental contamination, and increased provision of environmentally friendly products.

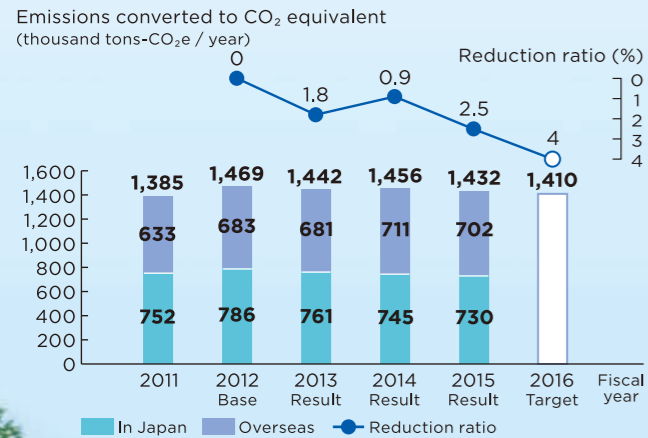
### “Action ECO-21” Campaign

We conducted the “Action ECO-21” campaign, initiated in April 2003. The ‘E’ in the Action ECO-21 campaign stands for environmental engineering, ‘C’ for environmental communication and ‘O’ for originality. The campaign was designed to enhance advanced activities for improving the global environment, thereby fulfilling our social responsibilities and further developing our businesses, so that we may grow as a company that always merits the trust of our customers and of society.

### Reduction of Greenhouse Gas Emissions

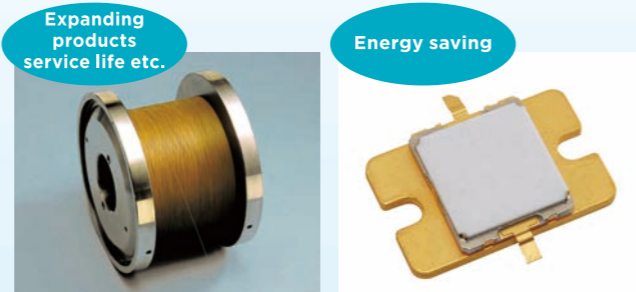
We have been working to cut energy-derived CO<sub>2</sub> emissions through energy conservation activities and to reduce consumption of SF<sub>6</sub> and other greenhouse gases. In FY2015, greenhouse gas emissions were reduced by 2.5% from the base year on a group basis.

### Greenhouse Gas Emissions and Reduction Ratio (in Japan and overseas)



### Offering Excellent Eco-Products

We operate a product assessment program for environmental, qualitative evaluation of new products and an Eco Symbol Program for authorization of energy- and resource-saving products in order to offer environmentally friendly products to our customers.



Fixed abrasive diamond wire saw

GaN HEMTs

### Eco Life Activities

In January 2008, the Sumitomo Electric Group started Eco-Life Activities, aiming to reduce greenhouse gas emissions from households. This campaign encourages the Group’s employees and their families to make energy-saving efforts with environmentally friendly activities at home in order to reduce CO<sub>2</sub> emissions by 1 kg per person per day. Successful activities are honored by the president.

## Social Contribution Activities

Sumitomo Electric stipulated the Sumitomo Electric Group Basic Policies on Social Contributions, which are based on the Sumitomo Spirit and the Sumitomo Electric Group Corporate Principles, on the occasion of the 110th anniversary of its founding in 2007.

Under the Basic Policies, we are committed to the social contribution activities suitable for the Sumitomo Electric Group. These activities include the establishment of the SEI Group CSR Foundation as a vehicle to encourage research and learning activities and human resource development, as well as promotion of activities to contribute to local communities and support of volunteer activities and donations by employees.

### The Sumitomo Electric Group Basic Policies on Social Contributions

The Sumitomo Electric Group will proactively address voluntary social action programs, as a member of society, focusing on “respect for human resources,” “attaching importance to technology” and “creating a better society and environment” in accordance with the Sumitomo Spirit and the Sumitomo Electric Group Corporate Principles, as well as widely contributing to society through its business activities, including the provision of products, technologies and services that benefit society.

#### The Sumitomo Electric Group shall

1. Globally promote efforts toward the development of human resources, the promotion of research and learning and environmental conservation.
2. Promote community-oriented social contribution activities in the Group’s business locations all over the world.
3. Provide continuous support to employees’ voluntary social contributions.

### Activities of the SEI Group CSR Foundation

Sumitomo Electric established the SEI Group CSR Foundation in April 2009 for the purpose of developing human resources and promoting academic activities in a wide variety of fields both in Japan and overseas. The Foundation was officially recognized as a public interest incorporated foundation in February 2010.

The Foundation implements the following programs: 1) making monetary contributions to university courses; 2) providing scholarships for local students studying at overseas universities; 3) providing scholarships for international students studying in Japan; (4) providing scholarships for students studying in Japan; and (5) offering support for academic and research activities.



Monetary contributions to university courses

In addition to these activities through the Foundation, Sumitomo Electric provides financial support in a wide range of fields such as art and cultural activities and community development programs.

The Company also matched contributions made by its employees to support restoration efforts after the Great East Japan Earthquake, flooding in Thailand, and the Kumamoto Earthquake.

### Social Contribution Activities in Japan

Our business facilities in Japan actively work on a wide variety of measures to build harmonious relationships with local communities. They contribute to local communities by providing support including community cleanup activities, facilitate communication by publishing local community magazines, and offer educational training support including hands-on programs for local students.



Local cleaning activities



Local community magazine



Manufacturing training, hands-on programs for students

### Social Contribution Activities in Foreign Countries

The Sumitomo Electric Group, which operates businesses in about 40 countries, respects each country and region’s unique culture and customs, and works on a wide variety of activities with a view to contributing to the development of the local economy and society. We provide support for our employees to participate in volunteer activities for local communities, make donations to local schools, and provide scholarships for university students.



Technical education activities in Thailand (received an Education Minister’s award)

**Global Network**  
(As of March 31, 2016)



# Europe 57

Europe	Total
Belgium	1
Bulgaria	1
Czech	1
France	5
Germany	13
Hungary	3
Italy	3
Moldova	1
Netherlands	3
Poland	4
Romania	2
Russia	4
Serbia	1
Slovakia	2
Spain	1
Turkey	4
U.K.	7
Ukraine	1



# North & South America 46

North & South America	Total
Argentina	1
Brazil	7
Canada	2
Mexico	9
Paraguay	1
U.S.A.	26



# Middle East & Africa 12

Middle East & Africa	Total
Egypt	2
Morocco	4
Saudi Arabia	1
South Africa	2
Tunisia	3



# Japan 114

# Asia & Oceania 160

Asia & Oceania	Total
Australia	3
Cambodia	1
China*	80
India	7
Indonesia	12
Korea	7
Malaysia	5
Philippines	11
Singapore	4
Thailand	21
Vietnam	9
*Numbers including	
Taiwan	5
Hong Kong	6



## Networks growing throughout the world

The Sumitomo Electric Group operates globally. The Group includes about 390 subsidiaries and affiliates in about 40 countries around the world, mainly in Asia, North America and Europe.

The total number of employees for the entire Group exceeds 240,000. We aim to contribute to economic and social development not only by offering excellent products and services, but also by carrying out business activities in harmony with local society, based on our respect for the culture and custom of each country or region.

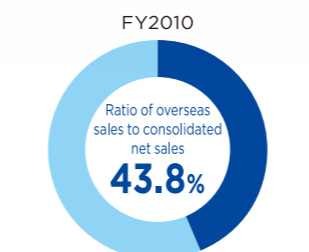
Business operations in about **40** countries worldwide

About **390** subsidiaries and affiliates

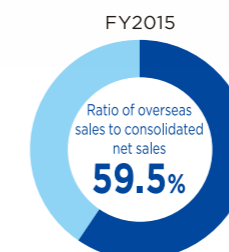
More than **240,000** employees in entire Group

### Overseas Sales

■ Overseas ■ Domestic



Overseas sales 890,370 million yen  
Consolidated net sales 2,033,827 million yen

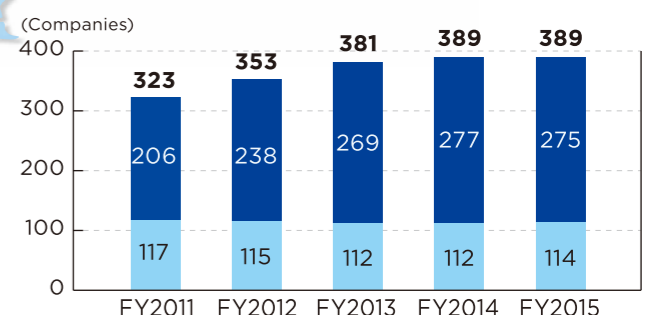


Overseas sales 1,746,138 million yen  
Consolidated net sales 2,933,089 million yen

Our fiscal year begins on April 1 of each year and ends on March 31 of the following year.

### Total Subsidiaries & Affiliates

■ Overseas ■ Domestic



\*Total subsidiaries and affiliates: total of consolidated subsidiaries and equity method affiliates (As of the end of March)



## Subsidiaries

● Manufacturing / Construction & Engineering ★ Sales / Others



### Automotive

#### Domestic

- ★ AutoNetworks Technologies, Ltd.
- Sumitomo Wiring Systems, Ltd.
- Sumitomo Riko Co., Ltd.

#### Overseas

- ★ Hartec, Inc. (U.S.A)
- Huizhou Sumiden Wiring Systems Co., Ltd. (China)
- Huizhou Zhurun Automotive Wire Co., Ltd. (China)
- Huizhou Zhurun Wiring Systems Co., Ltd. (China)
- International Electric Wires Phils. Corp. (Philippines)
- ★ SEI ANTech-Europe GmbH (Germany)
- ★ SEWS Canada, Ltd. (Canada)
- SEWS Hungary Wiring Harness, Ltd. (Hungary)
- SEWS-CABIND S.p.A. (Italy)
- SUMI-HANEL Wiring Systems Co., Ltd. (Vietnam)
- Sumiden Vietnam Automotive Wire Co., Ltd. (Vietnam)
- Sumidense do Brasil Industrias Eletricas Ltda. (Brazil)
- Sumidense Mediatech Suzhou Co., Ltd. (China)
- Sumidense Vietnam Co., Ltd. (Vietnam)
- Sumitomo Electric Bordnetze GmbH (Germany)
- Sumitomo Electric Wiring Systems, Inc. (U.S.A)
- Sumitomo Electric Wiring Systems (Europe) Ltd. (U.K)
- Sumitomo Electric Wiring Systems (Thailand) Ltd. (Thailand)
- Tianjin Jin-Zhu Wiring Systems Co., Ltd. (China)
- Wuhan Sumiden Wiring Systems Co., Ltd. (China)



### Infocommunications

#### Domestic

- Broad Net Mux Corporation
- Japan Communication Accessories Manufacturing Co., Ltd.
- Kiyohara Sumiden, Ltd.
- SEI Optifrontier Co., Ltd.
- Sumiden Opcom, Ltd.
- Sumitomo Electric Device Innovations, Inc.
- Sumitomo Electric System Solutions Co., Ltd.

#### Overseas

- Hangzhou SEI-Futong Optical Fiber Co., Ltd. (China)
- ★ Sumitomo Electric Device Innovations U.S.A. (U.S.A)
- Sumitomo Electric Lightwave Corp. (U.S.A)
- Sumitomo Electric Optical Components (Wuxi) Co., Ltd. (China)
- Sumitomo Electric Photo-Electronics Components (Suzhou), Ltd. (China)



### Electronics

#### Domestic

- Sumiden Fine Conductors Co., Ltd.
- Sumiden Semiconductor Materials Co., Ltd.
- ★ Sumiden Shoji Co., Ltd.
- Sumitomo Electric Fine Polymer, Inc.
- Sumitomo Electric Printed Circuits Co., Ltd.
- Sumitomo (SEI) Electronic Wire, Inc.

#### Overseas

- First Sumiden Circuits, Inc. (Philippines)

- JUDD Wire, Inc. (U.S.A)
- SEI Electronics Materials Ltd. (Taiwan)
- ★ SEI Interconnect Products (Europe), Ltd. (Germany)
- Sumi-Pac Corporation (Taiwan)
- Sumitomo Electric Fine Polymer (Suzhou) Ltd. (China)
- Sumiden Electronic Materials (M) Sdn, Bhd. (Malaysia)
- Sumitomo Electric Interconnect Products (Hong Kong), Ltd. (China <Hong Kong>)
- Sumitomo Electric Interconnect Products (M) Sdn, Bhd. (Malaysia)
- Sumitomo Electric Interconnect Products (Shanghai), Ltd. (China)
- Sumitomo Electric Interconnect Products (Shenzhen), Ltd. (China)
- ★ Sumitomo Electric Interconnect Products (Singapore) Pte. Ltd. (Singapore)
- Sumitomo Electric Interconnect Products (Suzhou), Ltd. (China)
- Sumitomo Electric Interconnect Products (Vietnam), Ltd. (Vietnam)
- Sumitomo Electric Interconnect Products, Inc. (U.S.A)
- Sumitomo Electric Schrumpf-Produkte GmbH (Germany)
- Sumitomo Electric Semiconductor Materials, Inc. (U.S.A)
- ★ Sumitomo Electric (Shanghai) Electronics, Ltd. (China)
- Zhongshan Sumiden Hybrid Products Co., Ltd. (China)



### Environment & Energy

#### Domestic

- Daikoku Electric Wire Co., Ltd.
- Hokkaido Electric Industries Ltd.
- J-Power Systems Corporation
- Nissin Electric Co., Ltd.
- Sumiden Transmission and Distribution System Products, Ltd.

- Sumitomo Densetsu Co., Ltd.
  - Sumitomo Electric Industrial Wire & Cable Inc.
  - Sumitomo Electric Toyama Co., Ltd.
  - Sumitomo Electric Wintec, Inc.
- Overseas
- KTS High-Tech Rubber Co., Ltd. (China)
  - PT. Karya Sumiden Indonesia (Indonesia)
  - PT. Sumi Indo Kabel Tbk. (Indonesia)
  - PT. Sumitomo Electric Wintec Indonesia (Indonesia)
  - Sumitomo Electric Wintec America, Inc. (U.S.A)
  - Sumitomo Electric Wintec (Malaysia) Sdn, Bhd. (Malaysia)
  - Sumitomo Electric Wintec (Thailand) Co., Ltd. (Thailand)
  - Sumitomo Electric Wintec (Wuxi) Co., Ltd. (China)



### Industrial Materials & Others

#### Domestic

- A.L.M.T. Corp.
- Axismateria Ltd.
- ★ GOKOH SHOJI CO., LTD.
- Hokkaido Sumiden Precision Co., Ltd.
- Kyushu Sumiden Seimitsu Ltd.
- ★ SEI Business Creates, Inc.
- ★ STARNET Co., Ltd.
- ★ Sumiden Sizai Kakou Co., Ltd.
- Sumitomo Electric Hardmetal Corp.
- Sumitomo Electric Information Systems Co., Ltd.
- ★ SUMITOMO ELECTRIC INTELLECTUAL PROPERTY & TECHNOLOGY CENTER, LTD.
- Sumitomo Electric Sintered Alloy Ltd.
- Sumitomo Electric Technical Solutions, Inc.

- Sumitomo Electric Tochigi Co., Ltd.
  - ★ Sumitomo Electric Tool Net, Inc.
  - Sumitomo (SEI) Steel Wire Corp.
  - SUNRAY REINETSU CO., LTD.
  - ★ TAKARA SANGYO Co., Ltd.
  - Tokai Sumiden Precision Co., Ltd.
  - Tohoku Sumiden Precision Co., Ltd.
- Overseas
- PT. Sumiden Serasi Wire Products (Indonesia)
  - ★ SEI Carbide Australia Pty Ltd. (Australia)
  - ★ SEI (Philippines) Incorporated (Philippines)
  - ★ Sumiden Asia (Shenzhen) Co., Ltd. (China)
  - Sumiden Powder Metallurgy (Wuxi) Co., Ltd. (China)
  - Sumiden Wire Products Corp. (U.S.A)
  - ★ Sumitomo Electric Asia, Ltd. (China <Hong Kong>)
  - Sumitomo Electric Carbide Manufacturing, Inc. (U.S.A)
  - ★ Sumitomo Electric Carbide, Inc. (U.S.A)
  - ★ Sumitomo Electric Europe Ltd. (U.K)
  - ★ Sumitomo Electric Finance U.K. Ltd. (U.K)
  - ★ Sumitomo Electric Finance U.S.A., Inc. (U.S.A)
  - ★ Sumitomo Electric Hardmetal Asia Pacific Pte. Ltd. (Singapore)
  - ★ Sumitomo Electric Hardmetal Ltd. (U.K)
  - Sumitomo Electric Hardmetal Manufacturing (Thailand), Ltd. (Thailand)
  - ★ Sumitomo Electric Hartmetall GmbH (Germany)
  - Sumitomo Electric Hartmetallfabrik GmbH (Germany)
  - ★ Sumitomo Electric International (Singapore) Pte. Ltd. (Singapore)
  - Sumitomo Electric Sintered Components (M) Sdn., Bhd. (Malaysia)

### Affiliates

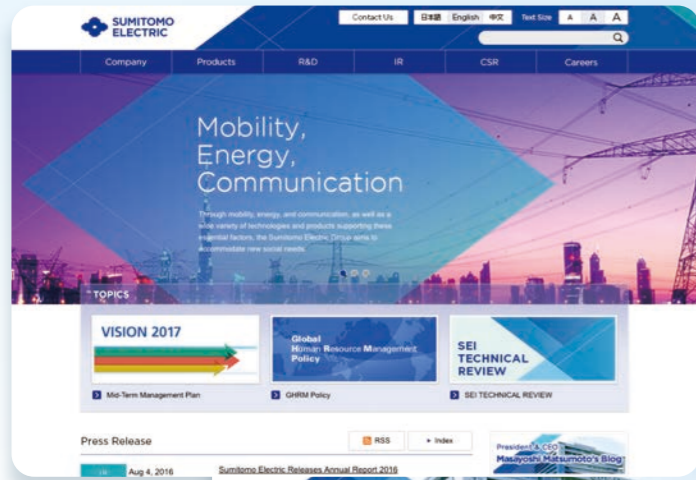
#### Domestic

- ★ Bay Communications Inc.
- Dyden Corporation
- Kitanihon Electric Cable Co., Ltd.
- ★ MIRAIT Holdings Corporation
- Nuclear Fuel Industries, Ltd.
- OCC Corporation
- Sumitomo Rubber Industries, Ltd.
- ★ TECHNO ASSOCIE CO., LTD.

#### Overseas

- Chengdu SEI Optical Fiber Co., Ltd. (China)
- Chengdu SEI-Futong Optical Cable Co., Ltd. (China)
- Korea Sintered Metal Co., Ltd. (Korea)
- Korloy Inc. (Korea)
- Kyungshin Corporation (Korea)
- O&S California, Inc. (U.S.A)
- Precision Sintered Products (Wuxi) Co., Ltd. (China)
- SEI-Nanjing Putian Optical Network Co., Ltd. (China)

# Websites



## Corporate Website

Japanese <http://www.sei.co.jp/>  
 English <http://global-sei.com/>  
 Chinese <http://global-sei.cn/>



## President & CEO Masayoshi Matsumoto's Blog

Japanese [http://www.sei.co.jp/president\\_blog/](http://www.sei.co.jp/president_blog/)  
 English [http://global-sei.com/president\\_blog/](http://global-sei.com/president_blog/)

<http://www.sei.co.jp/> <http://global-sei.cn/>  
<http://global-sei.com/>



## Sports Website (Japanese Only)

Track & field team <http://www.sei.co.jp/trackfield/>  
 Volleyball team [http://www.sei.co.jp/osaka\\_vb/](http://www.sei.co.jp/osaka_vb/)



## Sumitomo Electric Group Citizenship Activity Blog "Smile Relay"

Japanese <http://www.sei.co.jp/smile/>  
 English <http://global-sei.com/smile/>

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### Yokohama Works

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 Tel: +81-45-853-7182 Fax: +81-45-852-0597

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