

Initiatives for Preventing Global Warming

Basic Approach

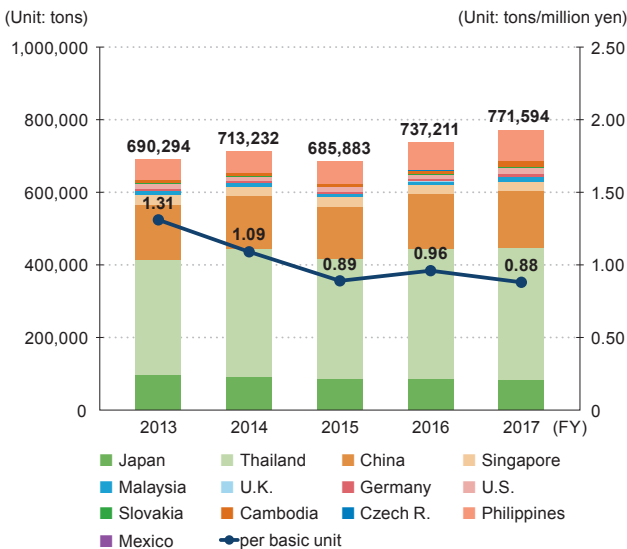
The MinebeaMitsumi Group recognizes that the international issue of global warming, along with the related issues of soaring energy prices and abnormal climatic conditions, pose a significant threat to the sustainability of its business activities.

In response, each office and plant in the MinebeaMitsumi Group is proactively promoting energy efficiency initiatives in order to combat global warming.

Results of FY2017 Initiatives

The MinebeaMitsumi Group's emissions of CO₂ in FY2017 totaled 771,594 tons, 5% more than in FY2016. In terms of basic units of production, CO₂ emissions decreased 8% over FY2016 to 0.88 tons per million yen of production.

CO₂ Emissions (Total and Per Basic Unit)



Initiatives at our Offices and Plants

Reducing Power Consumption of Raw Water Pumps by Increasing Pure Water and Raw Water Heat Exchangers (Chitose Business Division)

The Chitose Business Division uses groundwater for semiconductor production. Pure water for production processes is made from groundwater (well water), but the temperature of the well water is low year round, so it is necessary to heat it. In FY2017, idle heat exchangers were put back into service. The result was a 950,000 yen reduction in electric power consumption.

In addition to this measure, well water heat exchangers have been used for some time, and made a large contribution to the reduction in natural gas consumption.

Energy-saving Measures at Plants

We are actively introducing high-efficiency turbo chillers for air conditioning, inverter air compressors, LED lighting, and

other energy-saving devices at MinebeaMitsumi plants in Japan and overseas. We are also applying thermal insulating paint to plant roofs and walls, implementing measures to control intake of outside air using waste heat recovery and CO₂ sensors, and taking other measures to comprehensively increase energy savings at plants.



Turbo chillers installed at the Xicen Plant in China

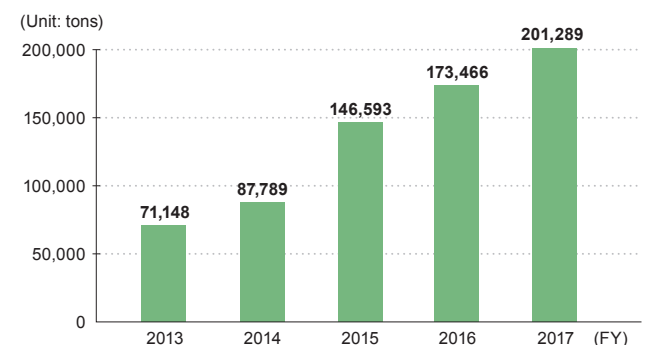
Initiatives at Logistics Divisions

Reducing CO₂ Emissions from Logistics

In addition to direct CO₂ emissions from business activities categorized as Scope 1 (gas and oil) and Scope 2 (electricity, steam, and heat), the MinebeaMitsumi Group also strives to grasp CO₂ emissions from logistics activities (product shipment) categorized under Scope 3 (other).

In FY2017, MinebeaMitsumi Group's emissions of CO₂ related to product shipments totaled 201,289 tons, an increase of 16% compared with FY2016. The increase was primarily the result of higher shipment volumes in conjunction with increased product shipments and greater use of air freight to distant customers.

CO₂ Emissions from Logistics Activities



Future Issues and Goals

The MinebeaMitsumi Group will continue to advance its measures to prevent global warming.

In regard to long-term goals for 2020 and 2030, we are taking into consideration the Intergovernmental Panel on Climate Change (IPCC) report, as well as measures in each country, as we make progress on our global warming countermeasures.