The Komatsu Group procures various parts and materials and, through the manufacturing process, utilizes the earth’s resources, including raw materials, water, energy, and chemical substances, among others, to provide products to customers. Such business activities have the potential to impact the environment at each stage in the process.

The Komatsu Group will continue to provide high value-added products and services while assessing the environmental impacts resulting from its business activities, formulating medium- and long-term objectives, and introducing measures to reduce such impacts.

Environmental Impact Resulting from Business Activities of Komatsu Group Companies, including Facilities outside Japan (FY2016)

- **CO₂ emissions**
  Calculated by multiplying the electric power, heavy oil, etc. consumed (see Energy section of Input column) by the CO₂ emission coefficient (according to the Greenhouse Gas Emissions Calculation - Reporting Manual of the Ministry of the Environment based on the Act on Promotion of Global Warming Countermeasures) (Domestic electricity emission factor is 0.384kg/kWh.)

- **SOx emissions**
  Calculated by multiplying the "density" and the "S content by percentage" (based on element tables of suppliers) by the amounts of heavy oil, kerosene, light oil, and coke used.

- **NOx emissions**
  Calculated by multiplying the "nitrogen oxide emissions units" (obtained at each Komatsu facility) by the amounts of heavy oil, kerosene, light oil, natural gas, and LPG used.

- **Emissions and transfer of substances covered by the PRTR Law**
  Calculated by the "content ratio of specific chemical substances" contained in indirect materials multiplied by the "discharge or transfer rate." This calculation is based on the PRTR Law, which was designed to mandate the disclosure of the amount of specific chemical substances released into the environment to promote the management of such substances.

**Coverage of Data**

*1 8 Komatsu manufacturing facilities in Japan
*2 11 Komatsu Group manufacturing facilities in Japan
*3 Logistics of business sites in Japan However, this excludes data from the Awazu Distribution Center, Hokkaido Parts Distribution Center, and Kyushu Parts Distribution Center,
*4 Sales agencies and rental companies in Japan (Komatsu Construction Equipment Sales and Service Japan Ltd., Komatsu Rental Ltd. and Komatsu Forklift Japan Ltd.) were added
*5 Including the usage of forklifts in the premises of a factory
Environmental Impact Indicators by Region

Scope 1: CO₂ emitted directly by manufacturing facilities

Scope 2: CO₂ emitted indirectly by manufacturing facilities

(by using generators, boilers, etc.)

(by purchasing electricity, steam and hot water)

Energy

Water Resources