

# 4. Contribution to International Global Warming Mitigation Measures

## [Contributing to CO<sub>2</sub> Emissions Reduction via IPP Project Implementation]

We are helping to control CO<sub>2</sub> emission not only in Japan but also overseas thanks to our involvement in IPP projects centered mainly in Asia, such as the construction of high-efficiency, natural gas thermal power plants in Vietnam and the Philippines and the construction of wind power generation facilities in China.

In March 2017, Sarulla Geothermal Power Plant Unit 1 (106,000 kW), which represents one of the largest geothermal IPP projects in the world, went online. When Unit 2 (scheduled to start operation in 2017) and Unit 3 (scheduled to start operation in 2018), which are currently being built, also go online, the total power output for the plant is expected to be approximately 320,000 kW.



Aerial view of Sarulla Geothermal Power Plant Unit 1

## [Reducing CO<sub>2</sub> Emissions via IPP Projects]

The contribution to CO<sub>2</sub> emissions reduction for FY2014 as a result of high-efficiency thermal power plant and wind power plant operations overseas (six countries, seven projects<sup>\*1</sup>: equity ownership in output of 1.5 million kW) is estimated at approximately 380,000 tons<sup>\*2</sup>. This is roughly equivalent to 0.8% of Kyushu Electric Power's domestic CO<sub>2</sub> emissions volume.

\*1: IPP projects: six projects / General power providers: one project

\*2: CO<sub>2</sub> emissions factors for the countries in question were calculated using values obtained from the "CO<sub>2</sub> EMISSIONS FROM FUEL COMBUSTION 2016 EDITION (IEA)" (because the latest data is from 2014, calculation was performed using figures for 2014).

## [Utilizing Kyushu Electric Power Group Technology and Expertise for Overseas Consulting]

We are actively involved in overseas consulting on basic energy plans, on energy generation, transmission and conservation and on environmental initiatives which put to use the technology and expertise that we as a group have cultivated in the course of our domestic and international electrical power operations, helping other countries to improve the stability, eco-friendliness and human resources infrastructure of their power generation industries.

In FY2016, we performed a study in support of the installation of a solar power generation system on Ebeye Island, part of the Marshall Islands located in the western central Pacific Ocean, as well as performed a study in relation to the operation of a geothermal power plant in Kenya.

### Overseas Project Implementation (FY2016)

