

KYUDEN GROUP

Environmental Report 2018

Highlights

The Kyuden Group pursues environmental management as a means of bettering the environment together with business to ensure we are an environmentally-friendly corporate group. Here, we showcase some of the major initiatives that we have undertaken to reduce our environmental impact, promote environmental conservation and achieve other positive environmental results.

CO₂ emissions reduced due to active development and use of renewable energy

Geothermal	-520,000 t
Solar	-30,000 t
Wind	-40,000 t
Biomass	-80,000 t
Hydroelectric	-2.15 million t

▶▶▶ p. 20

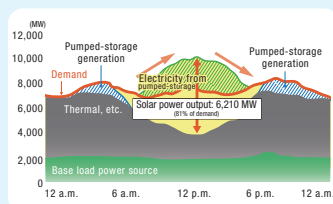
Note: t = metric ton (tonne)

CO₂ emissions total
-2.82 million t

Use of solar power generation exceeded 80% of demand

From 12 p.m. to about 1 p.m. on May 3 (Thurs.), 81% of electricity delivered to customers was solar power. This set a record high in terms of percentage of total demand!

▶▶▶ p. 23



Demand curve



Initiatives to Address Global Environmental Issues

CO₂ emissions in FY2017 reduced compared to the previous fiscal year

CO₂ emissions were reduced due to stable operation of Sendai Nuclear Power Station Units 1 and 2, and increased generation of renewable energy.

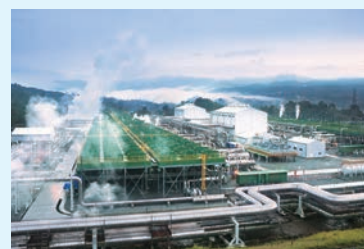
▶▶▶ p. 17

CO₂ emissions reduced by about 7%

All Sarulla Geothermal Power Units commenced operation in Indonesia

The Sarulla Geothermal Power Station in Indonesia has been constructed as one of the world's largest geothermal IPP projects. All units have started commercial operation.

▶▶▶ p. 21, p. 32



World-class Sarulla Geothermal Power Station (Units 2 and 3)



Collaborating with Communities

Local daycare children experienced digging for sweet potatoes, and got very excited about the insects that emerged! ▶▶▶ p. 44

Local daycare children harvested sweet potatoes they themselves had planted. Perhaps this will give them a sense of gratitude for the food they eat each day.

About 6,600 people participated in Kyuden “Play Forest”!

Many customers participated with their children in these hands-on environmental events held in forests throughout Kyushu. ▶▶▶ p. 43



Getting dirty and planting sweet potatoes (Karita Power Station)



Playing an exciting nature game while interacting with plants and animals



Promoting Environmental Management

No violations of environmental laws or regulations, or environmental accidents

To acquire the knowledge needed for promotion of environmental management and compliance, training and lectures were held for people in charge of environmental work at business sites.



In-house training with group discussions

▶▶▶ p. 45



Environmental Communication

Received the Minister for Economy, Trade and Industry Award at the 27th Global Environment Awards

We received this award for the first time due to high acclaim for our active development and maximal use of renewable energy, and our environmental preservation activities in collaboration with local communities. ▶▶▶ p. 46



Awards ceremony (Held at the Meiji Kinenkan, in Moto-Akasaka, Tokyo)

Received Prizes for Merit and Excellence at the 21st Environmental Communication Awards

Among our group companies, Kyushu Rinsan Co., Inc. won the Prize for Merit for the second year in a row, and Koyo Denki Kogyo Co., Ltd. won the Prize for Excellence for the third year in a row. ▶▶▶ p. 47



Award ceremony (Kyushu Rinsan Co., Inc.)

Award ceremony (Koyo Denki Kogyo Co., Ltd.)

Topics

Activities to contribute to society

Supporting the disposal of driftwood after torrential rains in northern Kyushu ▶▶▶ p. 26



Reihoku Power Station

Driftwood processed into wood chips was used as fuel for power generation at the Reihoku Power Station.



Clearing driftwood