

Environmental Management Efforts

Based on its corporate philosophy of “harmonizing energy supply with the environment,” the J-POWER Group practices environmental management that simultaneously aims to improve both environmental friendliness and economic value as a means of increasing the Group’s contribution to the development of a sustainable society.

The J-POWER Group’s Environmental Management Vision includes Basic Policies as well as an Action Program that specifies concrete objectives and targets as well as methods for attaining targets. The Action Program includes Corporate Targets to be attained over the medium term, and the Group is concertedly moving ahead with the implementation of measures designed to enable the attainment of those targets.

The J-POWER Group’s Environmental Management Vision (Revised on July 1, 2011)

Basic Policy

Basic Stance

As an energy supplier, we will contribute to the sustainable development of Japan and the rest of the world by harmonizing our operations with the environment and ensuring the constant supply of energy essential to human life and economic activity.

- Being an enterprise involved with the supply of energy, we will focus our expertise and technologies on ways of utilizing diverse kinds of energy sources—including fossil fuel energy, nuclear energy, renewable energy, and other kinds of energy—as a means of efficiently and continuously supplying the electric power required for human life and economic activity.
- We will continuously strive to minimize the environmental impact of our business activities, respond to needs to prevent global warming, and otherwise reduce environmental risks and augment environmental efficiency (defined at the ratio of environmental impact volume to production volume), and concurrently realize increases in environment friendliness and economic value so that we can contribute to sustainable development in Japan and elsewhere in the world.

Efforts Relating to Global Environmental Issues

While doing our utmost to ensure a stable energy supply, we will steadily advance with efforts to realize a low-carbon society in Japan and overseas and contribute to the reduction of global CO₂ emissions.

Therefore, by “promoting low-carbon coal-fired power,” “engaging in R&D related to next-generation low-carbon technologies,” “expanding the scope of CO₂-free power,” and taking other initiatives, we will work from a medium- to long-term perspective and with a focus on technologies to provide stable energy supplies to Japan and the rest of the world while also reducing CO₂ emissions. Furthermore, we will continue to work toward our ultimate goal of achieving zero emissions through the capture and storage of CO₂.

Promoting low-carbon coal-fired thermal power plants



Maintaining high operational efficiency, expanding use of mixed-biomass fuels, replacing aging thermal power plants, promoting overseas development of high-efficiency coal-fired thermal power plant business

R&D related to next-generation low-carbon technologies



We are engaged in R&D programs focused on such topics as technologies for further increases in energy efficiency, CO₂ capture and storage technologies, and ocean-based, wind-power technologies.

Efforts Aimed at Realizing a Low-Carbon Society

Doing our utmost to create nuclear power plants based on the prerequisites of obtaining the understanding of local residents and ensuring safety while also working to expand the use of hydropower, wind power, and geothermal power

Expanding use of CO₂-free power sources



Efforts Relating to Local Environmental Issues

We will take measures to reduce the environmental impact of our operations; limit the generation of waste by saving, recycling, and reusing resources; and harmonize our operations with local environments.

Efforts Relating to Transparency and Reliability

We will ensure that our business activities comply with all laws and regulations and disclose a wide range of environmental information while also striving to enhance communications with stakeholders.

Action Program Corporate Targets (Revised as of July 1, 2011)

Efforts Relating to Global Environmental Issues

Subjects	Targets
Promoting the Development of Low-Carbon Power-Source Technologies	<p>As it continues to make contributions as an enterprise engaged in electric power business, J-POWER will seek to implement Electric Power Business Environmental Action Plan measures by 2020 and thereby work to provide stable supplies of energy in Japan and elsewhere in the world while reducing CO₂ emissions.</p> <ul style="list-style-type: none"> • We will work to replace aging coal-fired thermal power plants with the latest high-efficiency USC power plants beginning with the planned replacement of the No. 1 and the No. 2 units at the Takehara Thermal Power Plant. • We will promote the mixed combustion of biomass fuels (effective utilization of non-utilized resources) at coal-fired thermal power plants. • We will develop coal-fired thermal power plant business employing our advanced high-efficiency power generation technologies at sites outside Japan centered on the Asia region and thereby contribute to the restraint of global CO₂ emissions and the transfer of technologies. • We will realize the Osaki CoolGen project and promote the development of higher-efficiency, oxygen-blown coal IGCC technology. • We will implement the EAGLE project, the Osaki CoolGen project, and the Callide Oxyfuel Project in Australia as well as thereby promote R&D related to CCS. • Regarding the Ohma Nuclear Power Plant Plan, we will earnestly address issues associated with the Fukushima Daiichi power plant accidents and further strengthen safety systems in accordance with national policies while ensuring that necessary countermeasures are consistently implemented in accordance with those policies in an appropriate manner and while obtaining the understanding of local communities as we do our utmost to create a nuclear power plant that is dependably safe. • We will promote the creation of new hydroelectric power plants and the expansion, upgrading, and renovation of existing hydroelectric power plants and thereby make efforts to expand the utilization of hydroelectric energy. • We will seek to greatly expand domestic wind power facilities while promoting R&D for the purpose of commercializing ocean-based, wind-power facilities. • We will make efforts to develop geothermal power plants at additional domestic sites.
Maintaining and Increasing the Thermal Efficiency of Thermal Power Plants (Higher Heating Value (HHV) Standards)	We will maintain our thermal power plants efficiency at their current level (approximately 40%) in each fiscal year beginning from fiscal 2008.
Gas Recovery Rates When Inspecting and Removing SF₆ Emission Control Equipment	We will strive to maintain SF ₆ recovery rates at 97% or higher when inspecting equipment and at 99% or higher when removing equipment in each fiscal year beginning from fiscal 2008.

Efforts Relating to Regional Environmental Issues

Subjects	Targets
SOx emissions per unit of thermal power generation	We will maintain SOx emissions per unit of thermal power generation at its current level (approximately 0.2 g/kWh) in each fiscal year beginning from fiscal 2008.
NOx emissions per unit of thermal power generation	We will maintain NOx emissions per unit of thermal power generation at its current level (approximately 0.5 g/kWh) in each fiscal year beginning from fiscal 2008.
Increased recycling rate for industrial waste	We will strive to maintain a recycling rate of approximately 97% in each fiscal year beginning from fiscal 2011.
Preservation of biodiversity	We will give due consideration in our business operations to the objective of preserving biodiversity.

Efforts Relating to Transparency and Reliability

Subject	Target
Enhancing environmental management	We will strive to continuously improve our environmental management systems (EMS) in each fiscal year beginning from fiscal 2008.