

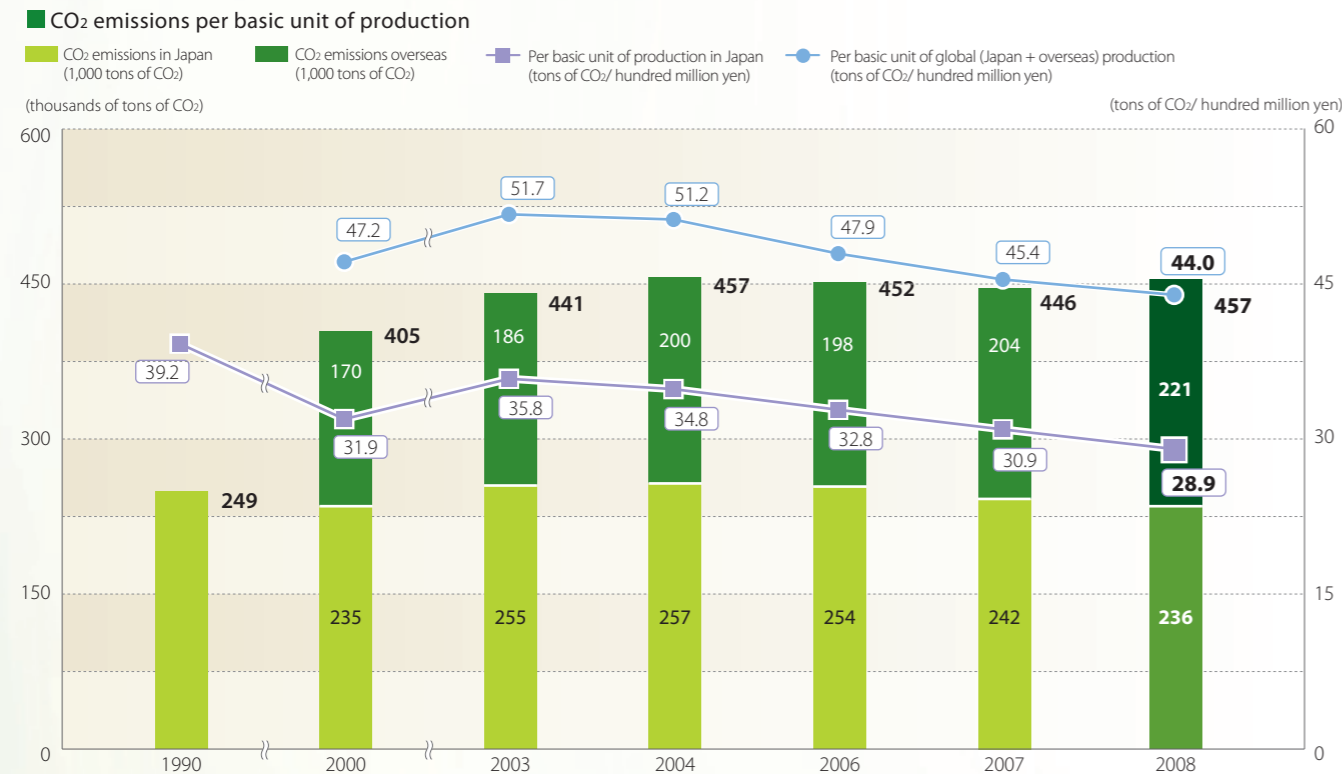
Creation and Expansion of Businesses for a Recycling-Oriented Society

See our [website](#) for details of:

- Waste material reduction
- Release/ transfer of chemical substances
- Environmental Accounting, etc.

Global Warming Prevention >>>

Global warming is said to be caused by a range of human activities. As a corporation and as a citizen, in order to coexist with the global environment and at the same time continue sustainable development, we need to take more strenuous action to prevent global warming. At Panasonic Electric Works, we work for global warming prevention in our business activities at the level of manufacturing, sales, distribution, and other stages, and devote resources to creating energy-saving products. We are also participants in the National Campaign to Prevent Global Warming organized by the Ministry of the Environment.



* Conversion standards for CO₂ emission volume
 • The GHG protocol's CO₂ emissions factors for each country are used for electricity purchased outside Japan.
 • For electric power purchased in Japan, the formula used is the receiving end formula indicated by the Federation of Electric Power Companies of Japan for the respective year (fiscal 2008: 0.410kg-CO₂/kWh)
 • For fuels, the conversion formula is based on the Ministry of the Environment's Manual for Calculation and Reporting of Greenhouse Gas Emission Volume

CO₂ emissions reduction by manufacturing divisions in Japan

In fiscal 2008, the Panasonic Electric Works Group achieved a 2.5% reduction in the CO₂ emissions of manufacturing divisions in Japan compared to the previous year. This result exceeds the target of a reduction of at least 1.5% compared to the previous year announced at the beginning of the year. One of the factors allowing us to achieve the target was the inventive energy-saving action taken at each site, including the practical examples of energy-saving introduced by Panasonic Electric Works Koriyama. CO₂ emissions reduction was effected by upgrading compressors, boilers, air-conditioners, lighting, electricity transformers and other utility installations and through energy-saving in production facilities including molding machines and dust extractors to improve energy consumption per basic unit of production in the manufacturing process.

New action on a global front

Among new activities in fiscal 2008 was a revision of targets carried out in line with the Panasonic Eco Ideas Declaration of October. In addition to the existing target of a 7% reduction in the total CO₂ emissions volume of manufacturing divisions in Japan compared to 1990 levels to be achieved by fiscal 2011, Panasonic Electric Works adopted the Panasonic Group target of driving global (Japan + overseas) total emissions volume for 2010 back down to fiscal 2001 levels. Paying attention to post-Kyoto Protocol, we are thus making steady progress toward a statement of global significance.

My contribution

Panasonic Electric Works Koriyama Controlling and altering deodorizers to save energy

By operating heat-storage type deodorizers more efficiently, I felt that it would be possible to greatly reduce the amount of fuel oil used as auxiliary fuel. So, by undertaking a detailed analysis of heat recovery conditions, we worked out an optimal method of controlling heat recovery in response to variations in the operating conditions of the driers and in the exhaust gas concentration, which varied depending on the product being manufactured and other factors. It was a tough task to work out the optimal control method to match the operating conditions of the driers, but doing so has realized a yearly energy saving of around 14%.

Panasonic Electric Works Koriyama
Kenji Hanada,
Head Technician, Engineering Section,
Engineering Department

My contribution

Panasonic Electric Works Beijing, Co., Ltd. (China) Changing the production system to save energy

Because of our production plans, we had not been able to achieve simultaneous operation of painting lines for our various lighting products, but by coordinating the production plans, sharing access to painting production plans and production data, modifying the hangers, and optimizing inventories, we were able to make changes to achieve efficient operation of the painting lines. Optimizing the conditions of the painting facilities was difficult, but it has led to savings in work time as well as energy-saving.

Panasonic Electric Works Beijing, Co., Ltd.
Shuwen Song,
Painting Manager,
First Component Section Head,
Lighting Department

TOPICS

Using energy-saving diagnosis to save energy

In order to drive forward energy-saving activities at overseas manufacturing bases in partnership with in-house environment departments, production engineering departments and engineering departments, we are implementing energy-saving diagnosis. This consists of inspecting the selected plant, then investigating and proposing detailed energy-saving measures. In fiscal 2008, concentrating on plants with high energy consumption and plants experiencing difficulty in rolling out energy-saving measures, energy-saving diagnosis was carried out at seven overseas plants, during which proposals were presented for energy savings equivalent to around 4,500 tons/year of CO₂. We will be promoting the full implementation of proposed measures to reduce CO₂ emissions.

Energy-saving diagnosis

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Strengthening the Relationship of Trust with Stakeholders

Rollout of Social Contribution Activities

