

Efforts for Reducing Greenhouse Gas Emissions

The global warming brought on by the increasing amount of CO₂ and other greenhouse gases is considered to be the gravest issue among all environmental problems we face today. Reduction in the amount of greenhouse gas emissions, as a means to counter this problem, is the most critical

agenda.

At Oki Electric, we have set reduction targets and are engaged in activities to reduce CO₂ emissions arising from the use of electrical power and fossil fuels, as well as greenhouse gases (PFC gases) used in the semiconductor manufacturing processes.

[Target]

- Reduction of the amount of CO₂ emissions (basic unit, Note 1) by 30% of that of 1990 by the end of 2010.
- Reduction of the amount of greenhouse gas (PFC gas) emissions by 10% of that of 1995 by the end of 2010.

(Note 1) Basic unit: Amount of CO₂ emissions / production quantity

Record of Greenhouse Gas Reductions in 2001

- The CO₂ emission quantity (absolute quantity) was reduced by 7% (equivalent to 18,500 tons of CO₂) of that of 2000. But the CO₂ emission quantity (basic unit) increased by 27.8% of that of 1990 with the decrease in production volume due to the recession within the semiconductor industry.
- The amount of discharged greenhouse gases (PFC gases) was reduced, in terms of global warming coefficient (Note 2), by 27% of that of 2000. Further activities are being conducted to achieve the target value.

(Note 2) Global warming coefficient: A numerical index resulting from the conversion of impact toward global warming, to the quantity of CO₂.

Efforts for Reducing CO₂ Emissions

Energy saving efforts were carried out focusing on semiconductor production plants which consume large amounts of electric power. Details of the energy saving measures are described below.

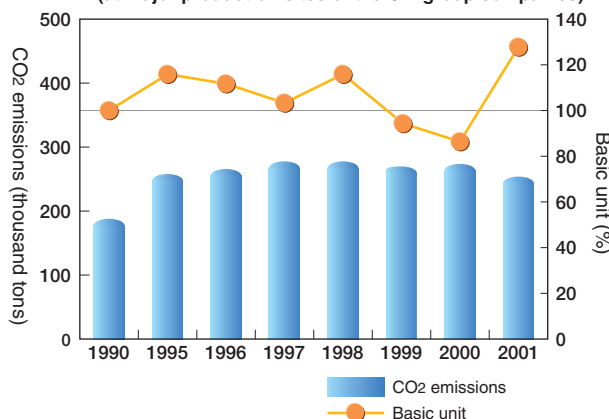
- Implementation of co-generation system.
- Upgraded facilities with highly efficient equipment (air conditioners, power receiving and converting facilities, etc.).
- Implementation of free cooling (outdoor air cooling) system.
- Modification of lighting, fans, and pumps into inverter types.
- Other measures (auto switch-off, thermal insulation of buildings, power supply cutoff for vending machines during nighttime, etc.).

Efforts for Reducing Greenhouse Gas (PFC Gas) Emissions

Perfluoro compound (PFC), which impacts global warming, is being used in the semiconductor manufacturing processes, and a part of the gas is emitted into the atmosphere. For this reason, the World Semiconductor Conference (WSC) set up a target for reducing the emission of PFC gases in 2010 by 10% compared to that of 1995, as measured in terms of global warming coefficient.

The semiconductor manufacturing divisions of Oki Electric are working towards achieving the WSC's target, through efforts such as the installation of exhaust gas treatment equipment and the improvement of manufacturing processes.

Transition of CO₂ emissions (at major production sites of the Oki group companies)



Installation of a co-generation system



Transition of PFC gases

