

Environmental Protection Program

Energy Conservation Program

Global warming, caused by CO₂ emissions produced by burning fossil fuels, such as petroleum, is considered to be the most critical of all global environmental problems. In order to counter this problem, energy conservation, including electric power, has become a critical issue.

Oki Electric has established targets for reducing CO₂ emissions generated by their own sites and is promoting activities to achieve these targets.

Targets

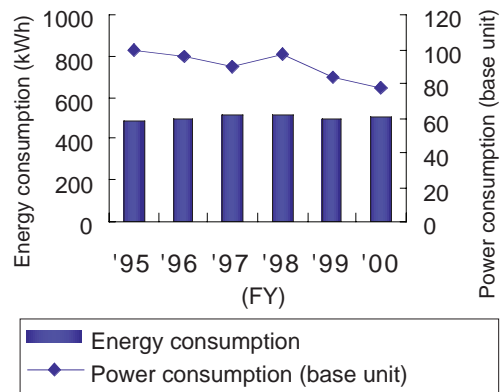
- ◆ Reduce the power consumption (basic unit) by 10% more than that of 1995 by 2000.
- ◆ Reduce all CO₂ emissions (basic unit) by 10% more than the total of FY1995 by 2000.

1. Energy Conservation Results for FY2000

The electric power consumption for FY2000 (basic unit) was reduced by 22.3% more than the total of FY1995 and the target was achieved with a large margin.

The CO₂ emissions (base unit) have been reduced by 21.8% more than the total of FY1995, and here again the target was achieved with a large margin.

Oki Electric shall continue with these efforts.



Electric Power Consumption Trend (at major production sites)

2. Major Energy Conservation Measures and Effects for FY2000

Energy conservation measures in general

Energy conservation measures were implemented, primarily at semiconductor manufacturing plants where electrical consumption is the highest.

Major Energy Conservation Measures

Energy conservation measures	Effects (MKWh)
Implementation of high-efficiency turbo refrigerator and co-generation system	2.6
Implementation of free cooling	1.0
Conversion of pumps to inverter types	0.9

Energy conservation measures in production processes

In production processes, the efficiency of operational facilities has been improved and the saving of space was achieved through the implementation of the JIT (Just In-Time) production system that resulted in energy conservation.



Efficient use of production plant space and a reduction in the ceiling lights (Oki Electric Honjo District)

Reduce CO₂ emissions by implementing the co-generation system

A co-generation system is a power generating system, which also collects steam and heated water from thermal exhausts, realizing a highly efficient use of energy. Oki Electric installed a co-generation system at the semiconductor production plants where a large amount of electrical power is consumed.

The energy utility efficiency was raised from the previous 35% to 50% and the CO₂ emissions are expected to decline by 3.5%.



Installation of a Co-generation System