

Kyocera Global Environment Contribution Award

Kyocera established its “Kyocera Global Environment Contribution Award” in 1996 to encourage environmental preservation activities. This internal award commends original and creative ideas that make a great contribution to the global environment through our environmental preservation activities every year.

11th Annual Award Results

Grand Award “Chemical Substances Reduction” Category

- **Reduced Usage of Chemical Substances Through Improved Amorphous Silicon Photoconductive Drum Film Formation Method**

The method of forming an amorphous silicon film for photoconductive drums was changed from the previous RF CVD method using high frequencies to the DC CVD method using our proprietary DC plasma, thus greatly reducing gas and electricity consumption.

Main Improvement Effects

- Greatly reduced film forming time
- Large reduction in gas consumption
- Reduced equipment maintenance
- Reduction of unevenness and variation (quality improvement)



Grand Award “Resource Conservation” Category

- **Reduced Consumption of Pure Water, Electricity and Nitrogen Gas Through Manufacturing Process Improvement**

Adopting an “energy saving mode” in the supply of pure water according to operational status in the liquid crystal department made it possible to reduce consumption of pure water and electricity.

Additionally, the nitrogen gas used for purging was changed to compressed air, thus greatly reducing the consumption of nitrogen gas.



Excellence Award “Energy Conservation” Category

- **Reduced Energy Use by Increasing Carbon Thickness**

Single crystal sapphire is produced by melting raw alumina with high-frequency heat and using the EFG method (a technology for “pulling-up” ribbons of sapphire material).

The carbon used as a heat insulator was found to have a considerable impact on the high-frequency heating process. By increasing the thickness and height of the carbon insulation, we reduced the amount of energy needed for the process.

Excellence Award “Global Environmentally Friendly Product Development” Category

- **Small High-capacity, Thin-layer Multilayer Capacitor Series**

In the capacitor industry, which always aims for smaller size coupled with higher capacity, Kyocera implemented cutting-edge miniaturization techniques to reduce the consumption of energy and resources during manufacturing.

Excellence Award “Waste Reduction” Category

- **Waste Reduction at Shiga Yohkaichi Plant**

The Shiga Yohkaichi Plant promoted various waste reduction activities to greatly reduce its amount of waste.

Specifically, wood pallets are made into wood chips used by the local government, thus contributing to the region.

Major Activities

- Introduced decompression waste liquid concentrator
- Recycled waste plastics
- Made wood pallets into chips
- Reused office equipment

Accumulated No. of Kyocera Global Environment Contribution Awards

