

# Environmental Protection Promotion Activities

## Awards, Commendation Program

### 2<sup>nd</sup> Japan Sustainable Management Award “Excellent Sustainable Management Award”

KYOCERA MITA Tamaki Plant was awarded the “Excellent Sustainable Management Award” at the 2<sup>nd</sup> Japan Sustainable Management Award in March 2004 as a result of various environmental protection activities. The awards were given to the Kyocera Group companies in 2 successive years (Last year, Kyocera Kagoshima Kokubu Plant was awarded).

#### [Contents of Award]

Positive activities for environment while giving priority to global environmental preserving based on the Kyocera Environmental Charter, as development and manufacturing plant for “ECOSYS printer” which is environmental preserving product

1. Zero emission (100% recycling of waste) has been continued since July 2002.
2. The ECOSYS concept of environmental preserving, operation cost reduction and system conformity has been well known especially in Europe and its market share has been increasing as it has obtained ECO mark of each country.
3. The sales of ECOSYS printer increased by 3.2 times during the past 7 years.  
The employment opportunities have been increasing continuously.
4. The company is positive for social contribution activities including local communication such as information exchange meeting with the local community.



### Kyocera Global Environment Contribution Award (8<sup>th</sup>: FY2005 Results)

#### Grand Award Category

“Development of Global Environmental Preserving Products”

#### Solar Power Generation System for Home Use “SAMURAI” and Monitor Display “ECONONAVIT”

The new solar power generation system “SAMURAI” allows space expansion for the system installation with the concept of “Stylish & Powerful” since it can be attached on limited space or a complicated shape of roof, which could not be attached before.

“ECONONAVIT” is a monitoring system that helps the user to have more interest in energy saving by using it with solar power generation system together.



#### Excellent Award Category

“Industrial Waste Reduction”

#### Industrial Waste Reduction through Introduction of Waste Green Sheet Recycling Facility

Waste green sheet is waste raw material generated during manufacturing of multi-layer ceramic packages. This green color sheet shape waste contains chromium. It is difficult to incinerate the waste green sheet since chromium changes to hexavalent chromium during its heating. In the past, the green sheet was thus disposed at controlled landfill site at much expense.

We wanted to find the method to change the green sheet to harmless material internally and finally, the waste green sheet recycling facility was introduced in fiscal 2003.

This combustion furnace can heat waste green sheet at high temperature (1,350 deg C) for more than 30 min. As a result, waste green sheet can be sold as materials for refractory and others, leading to large benefit in waste reduction.

We established the “Kyocera Global Environmental Contribution Award” in fiscal 1997 for encouraging our environmental preservation activities. The contribution award is to commend the activities having made a great contribution to the global environment with original and epic-making ideas during our environmental preservation activities every year.

#### Excellent Award Category

“Chemical Substance Reduction”

#### Reduction of Etching Solution through Introduction of Solution Control Equipment

The equipment used for etching of liquid crystal panel manufacturing analyzes the freshness of the liquid individually and detects the reason of its deterioration. We could reduce the chemical substances used for this process.

#### Excellent Award Category

“Chemical Substance Reduction”

#### Reduction of Chemical Substance through Change of Etching Resist Stripper

Chemical substances of high environmental impact were eliminated through change resist stripper, used after etching for liquid crystal manufacturing.