

# Consideration for the Environment

OKI Group achieves a better global environment for the next generation, and inherits the environment. To do that, in order to reach the targets in the OKI Group Environmental Vision 2020 (See Page 12), we coordinate and implement across the entire group the environmental management systems that underpin our environmental management commitment.



Logo for OKI Group's environmental activities

## OKI Group Environmental Business Promotion Organization

OKI Group creates an environmental action plan for each of the 4 themes in the OKI Group Environmental Vision 2020, which are important business issues. We practice management of these, and actively work on activities to continually reduce environmental impacts through our products and business activities.



## OKI Group Environmental Policy

The OKI Group achieves a better global environment by providing products and services that contribute to the development of the information society for the next generation, and inherits this within the group.

- 1** Aim to maximize measures' effects by implementing the OKI Group environmental management.
  - (1) Take actions to provide environment-friendly products and services in all business processes through product planning, manufacturing and maintenance operation.
  - (2) In the business activities, strive to save energy/resources and take actions to reduce and recycle wastes.
  - (3) Work on the biodiversity conservation and sustainable use.
- 2** Comply with applicable environmental legal requirements and regulations, and with customer requirements and other requirements to which the OKI Group subscribes, and prevent pollution.
- 3** Adequately implement PDmCA (Plan-Do-multiple Check-Act) in the environmental management system, and take actions to progress environmental performances and to continue improvements of its operation system.
- 4** Disclose environmental information, and make wide contribution to the society by supporting environmental activities.

## OKI Group Environmental Activity Plan (Fiscal 2012): Targets and Achievements

	Environmental Vision Theme	Activities	Targets for Fiscal 2015	Targets for Fiscal 2012	Achievements in Fiscal 2012		
					Results	Evaluation	See Page
Products	Prevention of pollution	Operate and improve chemical substance management • Regulations to control chemical substances in Japan and overseas • Response to revised standards of the industry	Develop chemical substances management procedures, in response to regulatory roadmaps in Japan and overseas	Legal revisions and industry information are reflected in our chemical substances management procedures document, and deployed and implemented in the Group  Supply CMS* assessment procedures are deployed to major suppliers	Revised and began implementing the chemical substance management procedures document Deployed to major suppliers, and revise part of the procedures document	○	14
			Build databases in response to regulatory roadmaps in Japan and overseas	Deploy across entire company the functions to increase survey efficiency for chemical substances	Completed addition of survey functions Began deploying to entire company	○	
	Realization of low carbon society	Conform with laws and regulations about power saving as well as the industry's initiatives	Achieve mid-term targets for larger amount of contribution to CO2 emissions reduction	Register five or more new OKI Eco Products in accordance with the new certification standards	Registered nine new Eco Products	○	Website
Business Activities	Realization of low carbon society	Reduce CO2 emitted from business activities (by introducing highly efficient equipment, and revising operational systems)	Basic unit to be reduced by 3% or more (compared to fiscal 2012)	Basic unit to be reduced by 1% or more (compared to the average of the past five years)	Reduced basic unit by 4.9%	○	13,25, 26,27
	Resource circulation	Reduce newly input resources at production sites	Achieve mid-term targets for the reduction of newly input resources and higher recycling efficiency	Maintain and continue zero-emission	Maintained and continued zero-emission	○	15,25,27
Environmental Management	Biodiversity conservation	Build and operate a biodiversity management system	Create and deploy a procedure to evaluate biodiversity	Clarify policy Build a management system	Created policy Built system and began activities	○	15
	Shared themes	Streamline OKI Group Environmental Management System	Achieve mid-term target for each theme in our environmental vision	Implement the consolidated certification plan Study the addition of locations subject to plan	Completed consolidation certification as planned Completed advance preparation for additions	○	Website

\* CMS: Chemical Management System

## Environmental Contribution through Products

As a company responsible for IT, OKI Group is researching and developing products which contribute to realizing a low carbon society by IT.

### Eco Driving: Higher Gas Mileage by Automatic Driving

OKI developed "high reliability vehicle-to-vehicle communication technology," and participated in the Energy ITS project by the New Energy and Industrial Technology Development Organization (NEDO). This experimented with automatic driving and queue driving with 4 meter gaps between 4 large trucks.



Automatic driving and queue driving with 4 meter gaps between vehicles

Based on vehicle-to-vehicle communication technology developed until now which supports safe driving, we set the target value for communications quality at about 100 times higher. To make it even more reliable, we used a subsystem with optical vehicle-to-vehicle communication using light as the communications media, combined with vehicle-to-vehicle communication by radio.

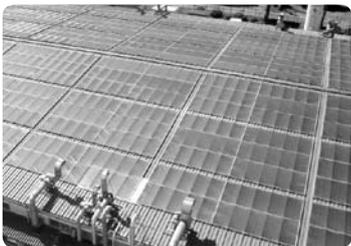
This technology enables energy saving driving, with automatic driving which reduces fuel wasted due to unnecessary deceleration and traffic jams, and queue driving with less distance between vehicles to reduce air resistance. NEDO announced this experiment's results on February 25, 2013.

## Contributions to Environment Conservation in Business Activities

Each of OKI Group's sites works on various energy saving and resource saving activities, and works on activities which lead to realizing a low carbon society and resource recycling.

### Nagano OKI's Initiatives to Save Energy and Recycle Resources

Nagano OKI is in Komoro City, Nagano Prefecture. In July 2012, as an energy saving policy, they installed shading insulation material on the factory's roof, and worked to boost air conditioning efficiency, so the amount of electricity consumed in July was 14% less than in the year before. In the factory, due to heat from various production equipment and from sunlight hitting the roof, cooling by air conditioning is



Factory with shading insulation material installed

necessary in summer.

This installed shading insulation material is a net made from tightly woven polyester flame retardant threading which screens sunlight. Installing it

horizontally on the factory roof reduces the transmission of heat to the roof surface, and heat held between the net and roof is released, preventing temperature rise in the factory. After it was installed, room temperatures in the factory were about 3°C lower than before it was installed.

Also, shading films were pasted onto windows of the factory, etc., and total electricity consumption in July 2012 was reduced by 40,000kWh, equivalent to 8.7% of the total in the previous year.

On the other hand, as an energy saving initiative, in 2012, Nagano OKI began recycling lead-free solder. By using lead-free solder recycling equipment, after use, oxidized portions of lead-free solder are removed, and unoxidized portions are reused. The fiscal 2012 recycling ratio was 39%.



Lead-free solder recycling equipment

## Boosting Environmental Skills

OKI Group aims to raise the level of environmental awareness and activities, so it provides environmental training in the entire group each year. And environmental training is provided at each location, corresponding to its operations.

### Environmental Training in the Entire OKI Group

General training (e-learning)	Specialized training (e-learning or classroom training)	Internal auditor training (classroom training)
<ul style="list-style-type: none"> <li>• Aim to introduce ISO 14001</li> <li>• OKI Group environmental policy, activity plans, etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Management of chemicals in products</li> <li>• Disposal of industrial waste &amp; used products</li> <li>• Eco inspection seminar</li> </ul>	<ul style="list-style-type: none"> <li>• Auditor development training</li> <li>• Auditor leader development training</li> <li>• Auditor refresher training</li> </ul>

## Responses to Environmental Pollution, etc.

### Pollution of Groundwater and Soil

The OKI Group installed observation wells at business locations, and is monitoring groundwater. A survey was done for a land transaction in fiscal 2012, which found environmental pollution in the soil and groundwater of OKI System Center in Warabi City, Saitama Prefecture. This was reported to the government, and appropriate action was taken in accordance with environmental regulations.

### Environmental Accidents, Claims, etc.

There were no environment-related accidents nor large claims made against the OKI Group in fiscal 2012. Whenever such an event occurs, we take action to alleviate the effects, and in accordance with rules for corrective and preventative actions, we find the causes and take action to prevent reoccurrence. We also do appropriate disclosure in accordance with rules on external communication.