



# Environmental Conservation Activities

To ease the impact on the environment, Oki is engaging in a variety of activities. These include reducing the environmental impact from products, and reducing the environmental impact from business activities. Oki also develops products contributing to the environment.

## Reducing Environmental Impacts from Products

### Efforts throughout the Product Lifecycle

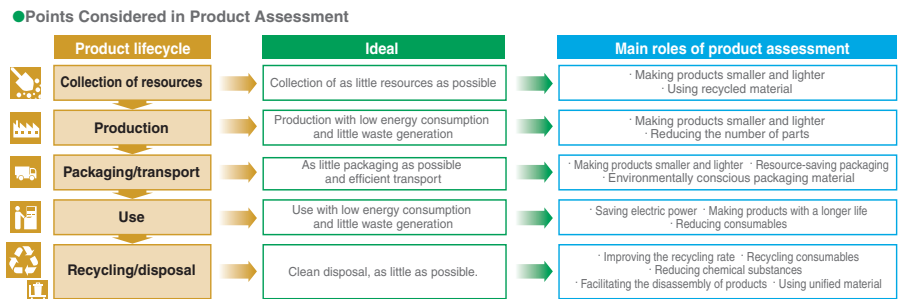
The dimension of the environmental impact of a product is often determined during the design and development phase. To provide products with little impact on the environment, we need to evaluate the environmental impact throughout the lifecycle of a product—such as its potential to save energy

and resources, recyclability, or whether it contains chemical substances—in this phase. The Oki group works to reduce environmental impact from products by implementing product assessment or LCA (lifecycle assessment), and by operating the “Oki Eco Product Certification Program”.

### Operation of Product Assessment

Product assessment is a method to reduce the environmental impact of a product by comparing a designed product with a reference product in view of established evaluation items (for example, resource conservation, energy saving, or recyclability), and repeating the design process until the designed model clears the judgment standards. The illustration at the right shows what should be considered in product assessment. The Oki group has been conducting product

assessment since the introduction of the product assessment system in fiscal 1995.



### Example for the Application to Products

The following presents some information and telecommunications products of the Oki group where environmental impacts were reduced through product assessment.

#### Multimedia Communications Server DISCOVERY01® MCU……

◆Making smaller and lighter products, saving electric power, reducing the number of parts  
DISCOVERY01® MCU is a unit to control remote sites in IP network systems that have a DISCOVERY01® at their core. It enables continued telephone services at remote sites in the case of a failure of the DISCOVERY01® or of the IP network. With this device, we used IP functions to integrated functionality and reduced the number of parts used. By designing the device so that it operates in a stand-by status during normal times, the consumption of electric power was also reduced. The results were a 85% smaller and lighter product which uses 74% less electric power. (certified as an Oki Eco Product in fiscal 2003)



●DISCOVERY01® MCU



●DISCOVERY01® (main unit)  
Type ML, medium to large capacity (right)

●DISCOVERY01® (main unit)  
Type S, small capacity (above)

#### VoIP Terminal VC14R-FXS ……………

◆Making smaller and lighter products, saving electric power  
The VoIP\*2) terminal VC14R-FXS is a VoIP adapter to connect the VoIP service carrier. Based on the existing 2-channel VC12R-FXS, Oki used high-density mounting to realize 4 channels with the same chassis size. Further, the employment of low-power IC chips helped to keep the power consumption down at the same level as the existing 2-channel version. The result was a 50% smaller and lighter product which uses 17% less electric power. (certified as an Oki Eco Product in fiscal 2003)



●VC14R-FXS

\*2) VoIP: A communication technology where voice is converted into IP packets and transmitted through the Internet or dedicated IP lines.

#### Printer MICROLINE5300 ……………

◆Reducing consumables  
With this printer, Oki reduced consumables by employing limited-color printing, which also contributes to cost reductions at the customer's side. Concretely speaking, this printer allows printing with only a black ink unit, or a black unit and one other color (yellow, magenta or cyan) installed. This enables printing with a limited number of colors.  
Users do not have to purchase unnecessary ink units, which helps not only to improve the cost/performance ratio, but also to reduce waste from consumables.  
◆Making smaller and lighter products, saving electric power  
Compared to the MICROLINE7300, a printer that offers an equal printing speed, the MICROLINE5300 is smaller and lighter, and uses less electric power. Concretely speaking, Oki reduced the weight by 50%, the volume by 28%, the consumption of electric power in stand-by status by 33%, and the average power consumption during use by 20%. Toner cartridges and image drum units were also made smaller and lighter.



●MICROLINE5300

#### Other Examples: Merging of Molded Parts ……………

◆Reducing the number of parts  
Reducing the number of parts leads to a reduction in the time needed to assemble the product, energy conservation, and to a reduction of waste due to a reduction in packaging material for parts. Oki Electric is undertaking efforts to merge multiple molded components in its products into one.



●Integrated Molded Component