



Environmental Conservation Activities

Reducing the Environmental Impact of Business Activities

Reducing the Environmental Impact of Distribution

Roughly spoken, distribution has two environmental impacts: the environmental impact from packaging and the environmental impact from transport. Oki Logistics Co., Ltd., a group company engaged in distribution, is working to reduce these environmental impacts.



Distribution Base of Oki Logistics

Efforts Related to Packaging

Environmental impacts of packaging are, for example, the consumption of resources for the packaging material or the emission of packaging material waste. To reduce these impacts, we are striving to design packaging in consideration of the keywords "Reduce, Reuse, Recycle," as well as to replace packaging materials with ones that are more eco-friendly.

Promotion of Resource-saving Packaging

To reduce the quantity of packaging material, we work for resource-saving packaging.

Improved Resource Conservation through Light Packaging of Large Equipment

Packaging is divided by material: corrugated cardboard packaging, which is currently widely used, and wooden frame packaging to protect large equipment. To save resources used for the packaging material of large equipment like Automated Teller Machines (ATM), we employ light packaging as shown in the picture, while at the same time limiting the means and methods for transport and delivery. For example, in "bare packaging," we cover the product with a polyethylene bag to shut out dust. During transport, we fix it using protective materials to prevent scratches. This way, we can maintain a transport quality of the same level as for equipment packed in corrugated boxes.

Types of Light Packaging

Packaging with skid assembly

- Large products with no wheels
- Transport by forklift

Bare packaging

- Products with wheels
- Transport by forklift/bucket

Packaging in reusable boxes

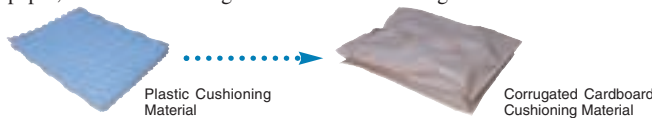
- Brought in and set up by Oki
- Lightweight products



Bare Packaging of ATM Equipment

Switchover to Eco-friendly Packaging Materials

We are promoting the replacement of polystyrene foam and other plastic cushioning materials with cushioning materials containing recycled paper, such as cushioning material made of corrugated cardboard.



Utilization of Palettes Made of Corrugated Cardboard

Palettes are platforms to load things on for transport with forklifts. The wooden palettes we used before were heavy and inconvenient to handle, and recycling them was also difficult. As a substitute, we are promoting palettes made of corrugated cardboard.



Palette Made of Corrugated Cardboard

Efforts Related to Transport

Environmental impacts of transport are, for example, the consumption of fossil fuels such as the diesel oil used by trucks, or the emission of CO₂, NO_x or SO_x in the exhaust gas. To address these impacts, we are, for example, switching over to CNG (compressed natural gas) and other low-pollution alternative fuel, or implementing "eco-driving" by, for example, stopping to let the engine idle. We are further promoting a restructuring in distribution, such as a modal shift to railroads and sea transport, as well as the improvement of loading efficiency and the operation of consolidated cargo delivery services.

Reducing CO₂ Emissions with a Modal Shift

The main environmental impacts from distribution in Japan come from transport by truck. To cut CO₂, we have for a long time been promoting a modal shift of transport from trucks to the more environment-friendly railroads. For transports to regions that are distant from the Kanto region, where the production sites are located - Hokkaido, Tohoku, Chugoku, Shikoku and Kyushu - the modal shift is already completed. Now, we are working on the Chubu and Kansai Regions.



Railroad Transport

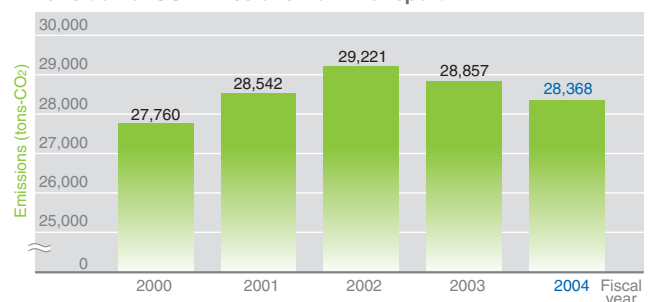
Reducing CO₂ Emissions by Shortening Air Transport Routes

The semiconductor divisions restructured their supply chain management, established new distribution bases in their overseas production plants, and changed the distribution routes so that semiconductors are now directly delivered to customers all over the world. This helped to shorten the air transport distance, thus reducing CO₂ emissions.

Reduction of CO₂ Emissions when Collecting Used Products

After we were designated as a Cross-jurisdictional Waste Treatment Manufacturer, we fully launched the collection and recycling of ATM equipment and other used Oki products. To ensure that this is executed with efficient distribution, we redesigned the distribution network and restructured the distribution bases in order to shorten the transport distances even further and to cut CO₂ emissions.

Transition of CO₂ Emissions from Transport



Transition in the Quantity of Purchased Packaging Materials

