

Oki group employs product assessment to ensure eco-friendly product design and production. By offering these products, we contribute to the reduction of environmental impact.

## 1 Environment Solutions

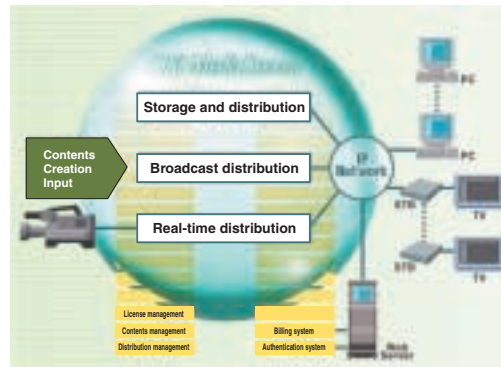
The spread of the Internet and the increased availability of broadband in networks have enabled anyone to collect or provide large volume of information in real time. The progress of these technologies provides us with convenience, and also has the effect that it cuts the resources and energy that we consume, reducing the impact on the environment. Oki is contributing to the reduction of environmental impact by offering "network solutions."

### ◆Live remote lecture system "LiveOnAir"

"LiveOnAir" is a system that uses real-time live transmissions to realize remote lectures or e-learning. Via a VOD server (Oki Media Server), high-quality images with a low delay are distributed to the lecturer and the students simultaneously. The lecturer can freely control the screen that the students can see, and can proceed with the lecture while showing presentation material to the students. The students, on the other hand, can ask questions in real time by text or voice. All this enables remote lectures with a realistic feeling over the Internet.

Oki Customer Adtech Co., Ltd., which is in charge of maintenance service work, etc. in the Oki group, uses LiveOnAir to connect its head office with the 77 branches nationwide for education and briefings on new products. Before, the 3,000 employees used to assemble in a training center in Shizuoka. This has now become unnecessary, leading to significant savings in energy and time that was used for the travel. We estimate that the reduction in energy corresponds to 990 tons of CO<sub>2</sub> <sup>Note)</sup>.

Note) Estimated based on the "Databook of industrial input-output tables for environmental impacts" (National Institute for Environmental Studies)



OKI MediaServer

### ◆Electronic Document Delivery System

On April 1, 2001, the "IT Document Summary Law" came into force, and the delivery of documents as electronic files using, for example, the Internet became possible. The Electronic Document Delivery System is a system that transmits documents in the form of electronic file to customers, etc. over the Internet. To ensure secure transmissions, it has advanced security functions such as electronic signatures, encryption, or digital watermarks. We expect that the utilization of this system will reduce paper resources and energy for transport.

### ◆VICS (Vehicle Information and Communication System)

VICS is a system to communicate traffic information and is going to be deployed all over Japan as part of ITS (Intelligent Transport Systems). Through beacons or FM multiplex broadcasting installed on the roadside, drivers are provided with necessary information (such as traffic jams, traffic regulations, routes or parking space) over their on-board equipment (car navigation system). By deploying VICS all over Japan, we expect reductions in traffic jams, exhaust gas and wasted fuel energy. Oki offers communications control equipment for VICS centers and roadside radio beacons.

## 2 Commercialization of Energy-saving LSIs (SOI Technology)

Oki Electric has been the first in the world to work on developing and commercializing complete depletion type SOI (Silicon on Insulator) technology to realize LSIs with low power consumption. LSIs that have complete depletion type SOI technology implemented consume only one third of the energy of conventional LSIs, and boast revolutionary performance because of their high speed, enabling energy saving also for electronic devices. The Casio Computer's Solar Waveceptor watch, the world's first product that implements SOI technology, enjoys high evaluations. We will continue our development to aim for the commercialization of light-conversion LSIs for optical transceivers, microcomputer LSIs and SRAM (memory LSIs).



An LSI with SOI technology and the Solar Waveceptor watch that uses this LSI (photograph provided by Casio Computer Co., Ltd.)

