

# Initiatives for Environmental Management

## Obtaining and applying ISO 14001 certification

Nitto Denko decided to obtain ISO 14001 certification for the Nitto Denko group even before the standard was established in 1996. Beginning with the Kyushu plant, certification was obtained for all company facilities by fiscal 2000. The movement to acquire certification is

currently spreading from the company's domestic manufacturing and sales group companies to overseas group companies.

### Obtaining ISO 14001 certification

ISO 14001 certification was obtained by the head office in July 2000; all domestic facilities have now obtained certification. Four of the domestic manufacturing group companies have obtained certification; certification has been finalized for all but one company. Five of the domestic sales group companies have also obtained certification.



### ISO 14001 certification status

#### Domestic facilities

Obtained in fiscal 1999 or earlier

- Kyushu plant
- Shiga plant
- Kameyama plant
- Onomichi plant
- Kanto plant
- Tohoku plant
- Toyohashi plant

Obtained in fiscal 2000

- Head office

#### Group companies (domestic/overseas)

Obtained in fiscal 1999 or earlier

- Kyushu Nitto Denko Corp.
- Mie Nitto Denko Corp.
- Nitto Shinko Corp.
- Saitama Nitto Denko Corp.
- Nitto Logi-Com Corp.
- Nitto U-tech Corp.
- Permacel
- Nitto Denko Electronics (Malaysia) Sdn. Bhd.
- Nitto Denko Materials (Malaysia) Sdn. Bhd.
- Toyohashi Nikka Co., Ltd.
- Nitto Denko Packaging System Corp.
- Kameyama Nikka Co., Ltd.

Obtained in fiscal 2000

- Kyoshin Shoji Co., Ltd.
- Nitto Denko Matex Corp.
- Jinsec Corp.
- Nitto Medical Corp.
- Nitto Seiki, Inc.
- Nitto Analytical Techno-Center Co., Ltd.
- Nitto Business Support Corp.
- Nitoms, Inc.
- Nissho Corp.
- Nitto Lifetech Corp.

### Internal environmental audit

In compliance with ISO 14001, a strict internal environmental audit is conducted at all facilities. No particular problems were noted as a result of the audit conducted in fiscal 2000.



Internal environmental audit

# Initiatives for Supporting Activities of Overseas Operations

## Environmental activities at overseas facilities

Nitto Denko supports the same environmental countermeasures for overseas facilities, particularly manufacturing companies, as are used at the company's facilities in Japan.

### Initiative for preventing air pollution

Overseas group companies engaged in manufacture of adhesive tape have installed solvent recovery units and deodorizing furnaces to reduce discharge of organic solvents, and are operating with respect for the neighboring environment. The same emission standards or better are achieved at Nitto Europe N. V. in Genk, Belgium (established 1974), Permacel in New Jersey, USA (became group company in 1988), and Nitto Denko (Shanghai Songjiang) Co., Ltd. in China (established 1997) as in Japan. The company is also planning to install a deodorizing furnace at Nitto Denko (Taiwan) Corporation (NT) established in 1969 in Kaohsiung, Taiwan.



Heat accumulating deodorizing furnace at Nitto Europe N. V. (Belgium)



Catalyst deodorizing furnace at Nitto Denko (Shanghai Songjiang) Co., Ltd. (China)



Heat accumulating deodorizing furnace at Permacel (New Jersey, USA)

### Initiative for reducing CO2 emission

The same type of heat cycle exhaust treatment system installed at the Toyohashi plant in 1998 (exhaust from the manufacturing process is detoxified by incineration and at the same time the thermal energy is recovered as hot air and supplied to production equipment) has been installed at Nitto Europe N. V. and Nitto Denko Material (Thailand) Co., Ltd. in Ayutthaya, Thailand (established 1997), reducing energy consumption by approximately 25% compared with the conventional manufacturing type.



System of Nitto Denko Material (Thailand) (Ayutthaya, Thailand)



System of Nitto Europe N. V. (Belgium)

### Proper treatment of industrial waste

In order to support environmental activities of overseas group companies, the Environmental Technology Development Department has been conducting a study of impact on the environment by the various companies since fiscal 2000. The company checks the disposal site together with the local person in charge to make sure industrial waste is properly disposed of.



Ultimate disposal site in Belgium



Industrial park wastewater treatment facilities in Shanghai