

Environmental Activities Based on the Sanden Environmental Charter at Group Companies in Japan and Overseas-Diverse Achievements at Each Group Facility

The Sanden Environmental Charter applies to Sanden as well as other Group companies in Japan and overseas, promoting environmental protection activities throughout the entire Group. Already, 35 Group business sites have received ISO 14001 certification, and recently established Group members are now working toward meeting this global standard for environmental management systems.

■Environmental Activities at the Akagi Plant

The Akagi Plant encompasses a vending machine manufacturing facility, a retail systems manufacturing facility, a living and environment systems manufacturing facility, an electronic parts manufacturing facility, a parts center, and a distribution and processing center.

In fiscal 2006, we installed a 300kW solar power generating array, the second-largest in Gunma Prefecture, on the roof of our newly constructed distribution and processing center. During fiscal 2007, this array generated 350,000kWh of electric power, reducing CO₂ emissions by 67 tonnes (calculated based on the revised 2000 version of the NEDO's *Photovoltaic Power Generation Introduction Guide Book*). Moreover, the array has a thermal insulation effect that has helped prevent indoor temperature rises, thereby lowering summertime air-conditioning usage.

We also installed a monitoring panel at the

entranceway to the office of the center that shows in real time the volume of electric power being generated by the solar array, to help heighten the awareness of environmental issues among customers visiting the center and our personnel.



■Panel showing the level of power being generated by the solar array ■The distribution and processing center equipped with a large solar array

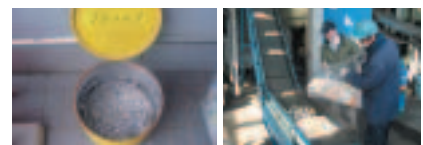
■Environmental Activities at the Yattajima Plant

The Yattajima Plant includes a compressor manufacturing facility and an air-conditioner system manufacturing facility. It handles operations ranging from product development, design, and manufacturing to service and distribution activities, and its outstanding technological capabilities and reliability have won acclaim from automakers worldwide.

In fiscal 2007, the parent company's plants—

mainly the Yattajima Plant but also including the Akagi Plant and the Isesaki Plant—began collecting deep-frying-use oil (tempura oil), PET bottle caps, and can tabs.

While the Yattajima Plant began recovering tempura oil in fiscal 2006, its employees were able to recover 1,600L of tempura oil, 288kg of PET bottle caps, and 19kg of can tabs during fiscal 2007. The tempura oil is being used in place of diesel fuel to power Sanden's minibuses and forklifts, while the PET bottle caps and can tabs are being redeemed to raise funds for donation to the Japan Committee for "Vaccine for the World's Children." In fiscal 2008 and subsequently, plans call for expanding the scope of these collection activities to include other Group companies in Japan.



■Can-tab recovery container ■PET bottle cap recovery



Akagi Plant

- Name: Akagi Plant, Sanden Corporation
- Location: 7 Nakanosawa, Kasukawa-mura, Setagun, Gunma Prefecture, Japan
- Number of employees: Approximately 1,000
- Products manufactured: Commercial freezers, refrigerated showcases, vending machines, living and environment systems, electronic parts
- Total site area: 641,000m²
- Building floor area: 128,600m²
- ISO certification: December 1997 (Acquired by the Kotobuki Plant, which became the Akagi Plant in 2003)

■Akagi Plant's Environmental Impact (Water quality)

Regulated item	Unit	Regulated value according to prefectural/city ordinances	Actual measurement
pH		5.8~8.6	7.3
BOD	mg/L	25	<2
SS	mg/L	50	<2
n-hexane	mg/L	30	<5
Total nitrogen	mg/L	120	<31
Total phosphorus	mg/L	16	<2
E. coli bacteria	Number/m ³	3000	<30

■(Air: Boiler)

Regulated item	Unit	Regulated value according to prefectural/city ordinances	Actual measurement
Sulfur oxide	Nm ³ /h	(15.7)	<0.012
Particulate density	g/Nm ³	0.3	<0.005
Nitrogen oxide	mg/L	180	<66

*The Akagi Plant has concluded a pollution prevention and environmental preservation agreement with the village of Kasukawa.
 -Items with "<" indicate levels too low to measure.
 pH: Density of hydrogen ions
 BOD: Biochemical oxygen demand
 SS: Mass of suspended solids
 Sulfurous-oxide regulations refer to k value regulations.



Yattajima Plant

- Name: Yattajima Plant, Sanden Corporation
- Location: 350 Yattajima-cho, Isesakishi, Gunma Prefecture, Japan
- Number of employees: Approximately 1,050
- Products manufactured: Automotive air-conditioner compressors and systems
- Total site area: 82,000m²
- Building floor area: 60,000 m²
- ISO certification: July 1997

■Yattajima Plant's Environmental Impact (Water quality)

Regulated item	Unit	Regulated value according to prefectural/city ordinances	Actual measurement
pH		5.8~8.6	7.6~7.8
BOD	mg/L	160	2~3
SS	mg/L	200	<2
n-hexane	mg/L	—	<1
Total nitrogen	mg/L	120	5.9~9.3
Total phosphorus	mg/L	16	0.41~0.75
E. coli bacteria	Number/m ³	3000	0~6

■(Air: Boiler)

Regulated item	Unit	Regulated value according to prefectural/city ordinances	Actual measurement
Sulfur oxide	Nm ³ /h	(15.7)	<0.0043
Particulate density	g/Nm ³	0.3	<0.098
Nitrogen oxide	mg/L	180	<70

*Prefectures (ordinances): Gunma Prefecture regulations to preserve a clean living environment
 -Items with "<" indicate levels too low to measure.
 pH: Density of hydrogen ions
 BOD: Biochemical oxygen demand
 COD: Chemical oxygen demand
 SS: Mass of suspended solids
 Sulfurous-oxide regulations refer to k value regulations.