

Expanding Environmental Preservation Activities in Preparation for Building a Sustainable Society Group Companies in Japan and Overseas Responding to Environmental Needs in Line with Their Business Activities

Domestic Companies

■Asahi Sangyo Co., Ltd.

At an award ceremony held by the Energy Conservation Center, Japan (ECCJ) at the Tokyo Big Sight international exhibition facility on January 30, 2008, Asahi Sangyo was presented with the fiscal 2007 ECCJ Chairman's Award in recognition of its improved energy conservation performance.

In fiscal 2004, Asahi Sangyo's electric power consumption rose to 7,080,000 kWh, making it a Type 2 Designated Energy Management Factory for regulatory purposes (this classification applies to plants with annual energy consumption of 1500kL or more on a crude oil conversion basis). The company responded by drafting a plan for reducing its power consumption 18% over three years, and this plan was implemented with the participation of all the company's employees, who sought to "thoroughly eliminate all kinds of waste." The measures center on those to improve compressed air ducts in factory facilities, shift to the use of energy-saving compressed air nozzles, and otherwise comprehensively root out inefficiency in compressed air distribution systems. These and other activities-such as those to introduce inverter-controlled equipment and devise gravity-assisted conveyor equipment-enabled Asahi Sangyo to reduce its power consumption 19%, to 1480kL on a crude oil conversion basis.

Asahi Sangyo has also begun implementing Energy Loss Minimization Activities. It has introduced a system for the real-time measurement of energy consumption and compressed air usage volume, enabling the implementation of data-based conservation measures designed to quickly discover waste in terms of fluctuations in the consumption of power and air per unit of output. Asahi Sangyo's innovative creation of a system for controlling the number of compressors in operation is expected to make possible additional energy conservation achievements going forward.

■Sanwatech Co., Ltd.

Previously, Sanwatech's component cleaning and drying processes employed a compressed-air "air blow" technique for removing water drops from washed components and drying the components. However, the company's air compressors annually consumed 254,000kWh of electric power. After deliberations, blow-drying with compressed air was discontinued, and cleaning/drying equipment was equipped with turbo-blower units to remove water drops and dry components. The turbo-blowers only consume 55,000kWh of power per year, less than a quarter of the power consumption of the air compressors.

■Participation in Environmental Volunteer Activities

Sanden Denso Co., Ltd., has continuously organized environmental volunteer activities since June 2003. These activities initially involved only Sanden Denso employees, but, since 2007, the company has been inviting neighboring companies to participate. One company responded to the invitation, and the activities were implemented cooperatively. Previously Sanden Denso had little interaction with neighboring companies, and the recent start of cooperative volunteer activities has fostered deepening friendships among employees of both participating companies. Plans call for inviting additional nearby companies to cooperate in future activities.

■Sanwa Co., Ltd.

On November 11, 2007, Sanwa Co., Ltd., participated in the "Akagi Friendly Forest" forest-tending activities project, which has been implemented since 2004. Despite the challenge of a strong rainstorm on that day, 16 Sanwa employees participated and worked to tidy up the forest by handling such tasks as moving fallen trees and collecting illegally dumped rubbish. The number of participants in this project has increased each year, and they have played an important role in preserving the forest's good condition.

Asahi Sangyo Co., Ltd.



■The fiscal 2007 ECCJ Chairman's Award

Sanwatech Co., Ltd.



■Blow drying with compressed air (before improvements)

Sanden Denso Co., Ltd.



■Clean-up activities in cooperation with a nearby company

Sanwa Co., Ltd.



■The "Akagi Friendly Forest" forest-tending activities project



■A monitor display showing the volume of compressed-air flows



■Blow drying with a turbo-blower (after improvements)



■The volunteers are skilled at polishing road reflector mirrors



■Tidying up fallen trees amid the rain

Overseas Companies

Social Activities in the Asia Region

Sanden International (Singapore) Pte. Ltd. (SIS) participated in an environmental activities and environmental education programs involving approximately 350 local middle-school students and teachers. This participation reflects SIS's commitment to undertaking social activities as a company that strives to "return an excellent world to the next generation." In fiscal 2007, its environmental activities included planting mangrove seedlings, forming a human chain of students around the mangroves, and implementing an outdoor environmental education programs.

Sanden International Taiwan Corporation (SIT) also participates in environmental activities each year. In fiscal 2007, it participated in two local environmental activity projects. SIT employees have a high level of environmental consciousness, and many family members of employees also participate in its environmental activities. Approximately 110 volunteers participated in the two fiscal 2007 projects, which were a beach clean-up project in Taoyuan County and a project to remove litter from streets in Taipei City.

Social Activities in the Europe Region

As part of its small-group activities programs, Germany-based Sanden of Europe GmbH (SOE) participated in an environmental beautification and clean-up campaign in Bad Nauheim City. SOE was the only corporate participant in the campaign, and its outstanding approach to environmental activities was reported in the local news media. Participants in the campaign were amazed to find that they had collected approximately 60m³ of illegally dumped trash. During and after the activities, the participants were able to attain highly significant local community building benefits in the form of new friendships and deepened mutual understanding. Plans call for all SOE employees to participate in this program each year going forward.



■Asia region (Singapore): Mangrove seedling planting



■Asia region (Singapore): Human chain surrounding mangrove trees



■Asia region (Singapore): Outdoor education program



■Europe region (Germany): Bad Nauheim environmental beautification and clean-up campaign (local newspaper report on the campaign)



■Asia region (Taiwan): Cleaning up the beach (Taoyuan County)



■Asia region (Taiwan): Collecting litter from the streets (Taipei City)

TOPICS

Receipt of the Prime Minister's Hibiscus Award in Malaysia

Sanden International (Malaysia) Sdn. Bhd. (SIM) has won the Prime Minister's Hibiscus Award, an official award of the Malaysian government. This award is given to companies that have demonstrated notable achievement in environmental performance, and SIM was able to win the award based on the evaluation of the results of the all-employee-participation environmental improvement activities that it has sustained for the past three years. These results include a 10% reduction in electric power consumption, a 60% reduction in oil consumption realized based on oil recycling measures, the introduction of a component cleaning method that eliminates problems with harmful solvents, the provision of support for flooding countermeasures and implementation of other social contribution measures, and the sorting and recycling of waste.



■Malaysia: The Prime Minister's Hibiscus Award



■Malaysia: Receipt of the Prime Minister's Hibiscus Award