

Kyushu Plant / Environmental Report 2005

Business Summary: Vehicle manufacturing

Location: 1-3 Shinhamacho, Kanda-machi, Miyako-gun, Fukuoka, Japan

Start of Operations: April 1975

Number of Employees: 5,000

ISO 14001 Certification: March 1999

Environmental Slogan: Let's protect our precious sea and nature, and keep our development along with the area.



General Manager
Kyushu Plant
Kenzo Kawase



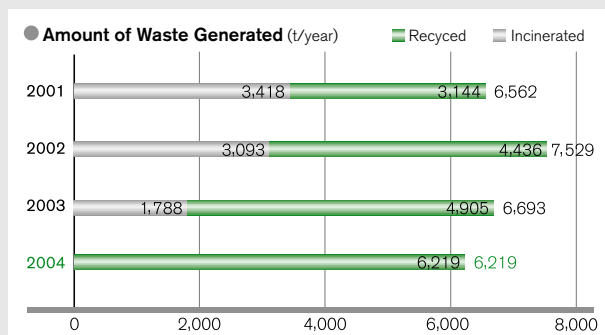
Kyushu Plant

Major Results in FY 2004

Reduction of Waste Generated

We continued recycling all waste generated, enabling us to discontinue use of the incinerator at the Kyushu plant in February 2004. As a result of the following waste reduction activities, the amount of waste generated has been decreased to 6,219 tons FY 2004 that fall below 6,600 tons of our target value.

1. Reduction of wastewater treatment sludge
2. Reduction of packing material for parts
3. Reduction of paint sludge



Energy Conservation Activity

In working toward achieving our energy conservation goals, we organized an "Energy Conservation Family," as an original activity of kyushu plant, for sharing the improvement case with each process of manufacturing, engineering, maintenance and inspection. Family did the excavation and the execution of the reduction item.

FY 2004 Targets and Results

We were able to reduce the amount of heat by 166,200 GJ, surpassing our target of 122,000 GJ.

Major Item

The boiler was used in the frame plant, which is used for operating the plant on Saturdays and Sundays. We were able to discontinue use of the boiler and achieve a reduction of 36,600 GJ/year, by improving the production process and dispersing the installation of air conditioning equipment.

Public Awards Received

We received the "Energy Management Achievement Award" in recognition of our ongoing energy-saving activities.

- Electrical Engineering Section: Minister of Economy, Trade and Industry Award (individual)
- Thermal Section: Kyushu Bureau of Economy, Trade and Industry Director's Award (individual)

FY 2004 Objectives and Results

Objective	Target	Result	Comment
Environmental communication with the community	Partnership activities with the authorities 3 times/year	+ 3 times	Conducted clean-up activities three times/year in collaboration with the town of Kanda.
	Revision of Kyushu Plant website 2 times/year	+ 2 times	Revised environmental website of Kyushu Plant 2 times/year
	Plant tour 2 times/year	+ 2 times	Participated in a 'children correspondents' interview regarding waste water treatment facility, co-sponsored by the Nishinippon Newspaper.
Environmental preventive measures	Minor environmental accident 4 times or less/year (Half number of accident generation in FY 2003)	— 6 times	Continued to take thorough measures to maintain equipment
Reduction of waste generated	Amount of waste generated less than 6,600t	+ 6,219t	The incinerator was stopped in February, 2004, by the recycling of all wastes. It led to a reduction in the amount of waste generated.
Reduction of energy heat amount	Reduction in amount of heat to 122,000 GJ	+ 166,200 GJ	Received "Energy Management Achievement Award" in recognition of our ongoing energy saving activities.
Promotion of individual improvement/Improvement of indirect business in environmental aspects	Accomplishment rate of target more than 90%	+ 100%	Improvement example; The amount of waste edge steel has been reduced, by devising how to pierce the steel plate.
Creating a corporate culture that values the environment	Environmental Lectures 2 times/year	+ 2 times	Invited the lecturer from outside to hold lectures about recycling cars 2 times/year.

*Minor environmental accident: Accident to which oil and waste fluid leak on-site due to equipment failure. To lose the possibility of the outflow the outside the plant completely, we manage minor environmental accident though these fluids never effuse outside at once.

Communication with the Community

Clean-up Activities in Collaboration with Kanda

We actively participate in clean-up activities with the town of Kanda as well as with area businesses.

1. **October 19: Clean-up of Kouno Shima island** (about 80 participants)
2. **July 5 and November 18: Clean-up along Shiraishi Beach** (about 100 participants each time).
3. **On the 2nd Monday of each month: Clean-up of the prefectural road surrounding the plant** (about 60 people each time).

In addition, as the administrative agent of the Kanda Port Beautification Council, we are promoting various activities associated with the beautification of the Kanda port (PR activities, activities to expand membership, inspection tour activities, etc.).

Opening Facilities to the Public

We held tours to introduce our plant's water treatment facility.

1. PR Activities

We introduced our water treatment facility and announced the commencement of facility tours at various external gatherings.

2. Plant Tours

- **November 3: Open House** (about 100 people joined)
- **March 12: Nissan Children Correspondents** (about 30 participants)

Nihama Festival

This festival is held annually with the aim of establishing a harmonious relationship with the local community and of invigorating our employees. In fiscal year 2004, the festival was held in the parking lot of the plant on September 12 and with approximately 35,000 visitors, the event was a great success. Because members from the Kanda Executive Committee and the local university were involved in all the planning stages, we saw even more open lines of communications with the local community as compared to previous years.



Nissan-sponsored Sports Events

Nissan sponsors sports events every year to deepen the friendship between Nissan and the local community and to support the local youth.

1. Volleyball Tournaments (elementary school students)

Silvia Cup, June 13 – the tournament was held with 21 participating teams (approximately 280 participants) from the districts of Keichiku and Kokura-minami.

Nissan Cup, January 23 – the tournament was held with 72 participating teams (approximately 980 participants) from the districts of Keichiku, Kita-Kyushu and Chikuho.

2. Table Tennis Tournament

February 27 – the tournament was held with approximately 1,300 participants from Fukuoka Prefecture.

3. Tennis Tournament

August 7, 8 – the tournament was held with approximately 200 participants from the districts of Kita-Kyushu and Keichiku.

4. Badminton Tournament

December 5 – the tournament was held with approximately 220 participants from the districts of Keichiku and Kita-Kyushu.

5. Track and Field Meet

August 22 – the meet was held with approximately 950 participants from the district of Keichiku.

Environmental Data

Air Quality (Air Pollution Control Law and ordinances)

Unit: NOx: ppm, Soot and dust: g/m³N

Substance	Facility	Legal Limit	Measured Value
NOx	Boiler	230	88
	Paint oven	230	34
	Gas turbine	70	49
Soot and dust	Boiler	0.10	0.010
	Paint oven	0.15	0.007
	Gas turbine	0.05	ND*

*Measured values are the maximum measured values in FY 2004.

*ND indicated values lower than the minimum quantifiable limits.

Wastewater Quality (Wastewater Pollution Control Law and other ordinances)

Unit: mg/L (except pH)

Item	Legal Limit	Measured Value		
		Maximum	Minimum	Average
pH	5.8-8.6	7.2	6.5	6.9
COD*	15	9.1	7.5	8.4
BOD	20	2.1	ND	1.1
SS*	25	1.0	ND	0.1
Oil*	2	ND	ND	ND
Zinc	5	ND	ND	ND
Fluoride	8	2.3	0.88	1.6
Soluble iron	10	ND	ND	ND
Soluble manganese	10	2.5	0.96	1.7
Total nitrogen	120	21	10	13
Total phosphorous	16	7.9	3.6	5.6

*Indicates environment conservation agreement (Fukuoka Prefecture, City of Kanda, Nissan)

*Measurements of items other than those listed above were below minimum quantifiable limits

*ND indicated values lower than the minimum quantifiable limits

PRTR Substances

Unit: kg/year

Substance number	Chemical substance	Amount handled	Air	Water	Waste	Landfilled by Nissan	Recycled	Chemically changed	Product
1	Water-soluble zinc compounds	31,579	0	95	4,011	0	0	0	27,474
16	2-Aminoethanol	59	0	0	0	0	0	59	0
30	Bisphenol A type epoxy resin (liquid)	30,057	0	0	0	0	0	844	29,213
40	Ethyl benzene	334,352	139,290	0	0	0	134,652	31,606	28,804
43	Ethylene glycol	1,244,253	9,686	0	0	0	0	1,473	1,233,094
44	Ethylene glycol monoethyl ether	14	12	0	0	0	0	1	0
63	Xylene	843,517	291,635	0	0	0	261,388	62,592	227,902
68	Chromium and trivalent chromium compounds	15	0	0	0	0	0	0	15
101	2 ethoxyethyl acetate	43	32	0	0	0	0	11	0
224	1,3,5 trimethylbenzene	18,744	9,445	0	0	0	6,681	2,617	0
227	Toluene	615,119	210,493	0	0	0	168,169	25,226	211,230
230	Lead and its compounds	52	0	0	18	0	0	0	35
231	Nickel	32	0	0	0	0	0	0	32
232	Nickel compounds	6,014	0	143	3,816	0	0	0	2,055
272	Bis (2-ethylhexyl) phthalate	2,519	0	0	0	0	0	85	2,434
299	Benzene	12,004	2	0	0	0	0	0	12,002
304	Boron and its compounds	75	7	8	61	0	0	0	0
309	Poly (oxyethylene) nonyl phenyl ether	3,039	0	0	0	0	0	3,039	0
310	Formaldehyde	769	540	0	0	0	0	230	0
311	Manganese and its compounds	7,060	0	99	819	0	0	0	6,143
314	Methacrylic acid	5	0	0	0	0	0	0	5
315	2-ethylhexyl methacrylate	4	0	0	0	0	0	0	4
Total		3,149,326	661,143	345	8,724	0	570,891	127,783	1,780,441

*PRTR: Pollution Release and Transfer Register. This system calculates the extent to which the production, use, and storage of chemical substances result in the release and transfer of those substances into the environment. The PRTR Law was originally enacted in July 1999 in Japan. *According to PRTR law, raw materials that contain 0.1% or more of carcinogen (designated type 1 chemical substances) and those that contain 1% or more of other substances are measured. All are reported to the local government, but information on additional substances is included in this chart (all types of dioxin are stated). *As the figures are rounded to the first place, the sum of air, water, waste, or buried by Nissan, recycled, chemically changed, and made into products may not necessarily be the same as the sum of the amount handled or total.

Major Products



LAFESTA



MURANO

Nissan Motor Co., Ltd.

[For inquiries, please contact]

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