

Technical Center/Environmental Report 2006

Business Summary: Vehicle Planning, Styling Design, Design, Prototype Engineering, Experiments, Purchasing

Address: 560-2 Okatsukoku, Atsugi-shi, Kanagawa, Japan

Start of Operations: November 1981

ISO 14001 Certification: March 1999

Message from Technical Center's Environmental Supervisor

NISSAN Technical Center of Kanagawa Prefecture, located in Tanzawa Oyama with its bountiful nature, is Nissan Motor's global hub, responsible for developing new products and technology. We aim to promote business activities in symbiosis with the environment as we continue to proactively conserve and improve it.



Environmental Supervisor and Executive Vice President
Mitsuhiro Yamashita



Technical Center

Environmental Policy in Nissan Technical Center

In order to achieve Nissan's environmental philosophy, "Symbiosis of People, Vehicle and Nature," Nissan Technical Center will serve as a business office that performs planning, technology and product development of automobiles in the Tanzawa-Ooyama area, which is blessed with a wealth of natural beauty, and we will continuously promote our environmental contribution activities based on the following policies:

1. Coexistence with a region

- As a member of a regional community, we not only proactively promote on our own participation in regional environmental activities, but also the environmental contribution toward a region.
- We will further reinforce our ongoing relationship by energizing the mutual communication with a region.

2. Cleaner business office

- We will make efforts not only to comply with legal regulations, but also to prevent environmental problems before they occur.
- We will eliminate the environmental hazardousness that influences society through the work that is assigned to each staff.
- We will proactively promote energy conservation and the 3R's: Reduce, Reuse and Recycle, to contribute to the conservation of the earth's environment.

3. Voluntary environmental activities

- In order to make our environmental activities more persuasive, each individual will consider issues by themselves and address these issues proactively.

Revised: June 19th, 2006

1. Coexistence with a region

The Technical Center endeavors to be a good corporate citizen by assisting with environmental education at local elementary and middle schools, conducting cleanup activities around the Center and at shuttle bus terminals, and holding friendship events with local governments and community associations.



2. Cleaner business office

Proactive efforts are made to conserve resources and energy by boosting the efficiency of our engineering activities, including extensive use of simulations in development work. Other activities are undertaken to prevent environmental issues from occurring in the first place, to achieve zero waste emissions and to promote energy savings.



final cut-off valve installed

3. Voluntary environmental activities

Wide-ranging activities are undertaken to elevate the environmental awareness of every employee. In addition to in-house environmental education, outside instructors are invited to give lectures on the environment. Various events are also held in conjunction with Environment Month, 3R Promotion Month and Energy Conservation Month.



FY 2005 Objectives and Results

Objective	Target	Result	Comment
Communication with local communities and related government offices	No serious claims	+	Held information exchange sessions with local communities.
Environmental preventive measures	No environmental accidents*	+	Ensured by improving facilities and lateral spread throughout the company of safeguards against minor incidents that may otherwise lead to serious environmental accidents.
Compliance with environmental laws	No legal violations	+	Ensured by the establishment of corporate targets and enforced through daily inspections and environmental patrols.
Improving waste recycling	Over 99% recycling rate	+	Actual result: 99.8% Achieved by verifying that our waste was separated and by expanding our network of recyclers.
Reducing waste generation	Waste reduction: Over 68 tons	+	Actual result: 104 tons Accomplished by identifying and implementing new measures for reducing waste.
Promoting energy conservation	Reduction of CO ₂ emissions by over 600 tons	+	Actual result: CO ₂ reduction of 992 tons Accomplished by forming an energy conservation committee that identified and implemented new energy conservation measures.
Reducing paper use	Reduction to 305 sheets/person per month	+	Actual result: Reduced to 268 sheets/person per month Achieved by using projectors, doubled-sided copying and shrinking documents to be copied.
Fostering a better understanding and awareness of environmental protection	100% participation in environmental management system training	+	Actual result: 100% Improved environmental education and engaged in events during Environment Month.

* Environmental Accident: A spill above legal requirements leaving company grounds.

Environmental Data

Air Quality (Air Pollution Control Law and ordinances)

Substance	Facility	Legal Limit	Measured Value
NOx	Kerosene boilers (installed before April 1, 1997)	150	94
	Kerosene boilers (installed after April 1, 1997)	80	63
	Gas boilers (installed before April 1, 1997)	150	99
	Gas boilers (installed after April 1, 1997)	60	56
Soot and dust	Kerosene boilers	0.3	0.002
	Gas boilers	0.1	Less than 0.001

Unit: NOx: ppm, Soot and dust: g/m³N

• Measured values are the maximum measured values in FY 2005.

Wastewater Quality (Sewage Water Law and other ordinances)

Item	Legal Limit	Measured Value			
		Maximum	Minimum	Average	
pH	Above 5 - less than 9	7.8	6.7	7.3	
BOD	Less than 600	450	1	74.4	
SS	Less than 600	190	1	16	
n-hexane	Liquid petroleum	5	3	1	Less than 2
	Fat and oil taken from plants and animals	30	19	Less than 1	2.4
Zinc		3	1.37	Less than 0.01	0.2
Nickel		1	0.9	Less than 0.1	0.2
Iodine	Less than 220	44.1	Less than 1	3.5	
Smeltable metal	10	0.8	0.05	0.2	
Soluble manganese	1	0.1	0.02	Less than 0.1	

Unit: mg/L (except pH)

PRTR Substances

Substance number	Chemical substance	Amount handled	Unit: kg/year						
			Air	Water	Waste	Landfilled by Nissan	Recycled	Chemically changed	Product
40	Ethyl benzene	23,292	138	0	68	0	0	23,085	0
43	Ethylene glycol	1,022	16	0	1,006	0	0	0	0
63	Xylene	131,972	534	0	1,727	0	0	129,711	0
85	Chlorodifluoromethane	1,095	0	0	1,095	0	0	0	0
227	Toluene	187,574	587	0	1,205	0	0	185,782	0
299	Benzene	7,742	4	0	1	0	0	7,737	0
	Total	352,695	1,279	0	5,101	0	0	346,315	0

*PRTR: Pollutant 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. *As the figures are rounded to the first place, the sum of air, water, chemicals, 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.

Nissan Motor Co., Ltd.

[For inquiries, please contact]

Technical Center Environmental Management Desk

(R&D Administration Department, Facilities Planning and Maintenance Section)

Tel: +81(0) 46-270-1220 Fax: +81(0) 46-270-1547

