

5 Others

Number of Employees with Environmental Qualifications (as of March 2002)

	Qualification	Number of certified employees	
External qualifications	Assistant ISO14001 auditor	7	
	Assistant ISO14001 auditor (qualified for applications)	66	
	Energy administrator/administration staff	85	
	Pollution prevention administrator	Manager	6
		Air	53
		Water	51
		Noise pollution	22
		Vibration	9
Dioxin	19		
Internal qualifications	Nissan internal environmental auditor	580	
	Nissan Green Shop auditor	94	

Major Employee Education Programs (FY 2002)

Items	Number in attendance
New Employee Training - Environmental Lectures	605
Basic Technical Employee Training I - Environmental Related Lectures	1,923
Basic Technical Employee Training II - Applicable Technical Employee Education Environmental Related Lectures	104
General Technical Employee Training - Environmental Lectures	18
Environmental Management Lectures	33
Energy Conservation Technology Lectures	36
Training for Internal Environmental Auditors	59
Refresher Training for Internal Environmental Auditors	58
Training for Assistant ISO14001 auditors	1

FCV (Fuel Cell Vehicle) Exhibitions and Test Drive Events (18 events in FY 2002)

June 1-2	ECO CAR WORLD 2002
September 4-6	CaFCP California Coast 2002 Road Rally
September 21	Japan Hydrogen & Fuel Cell Demonstration Project (JHFC) FCV Hands-on Learning Class and Trial Rides for Kids
November 4	Japan EV Festival 2002
December 10-11	Advanced Technologies Presentation Meeting & Test Drive
December 13	Ministry of the Environment Test Drive
December 13	Ministry of Economy, Trade and Industry Test Drive
December 17	Ministry of Land, Infrastructure and Transport Test Drive
December 18	Japanese Electric Vehicle Association (JEVA) Electric Vehicle Forum Exhibition
January 23	Environmentally Friendly Vehicles (EFV) International Meeting & Trial Rides
January 29	National Traffic Safety and Environment Laboratory Test Drive
January 30	Ministry of Land, Infrastructure and Transport KANTO District Transport Bureau Test Drive
February 6-7	Energy and Environment Exhibition (ENEX) 2003 (Tokyo)
February 13-15	Energy and Environment Exhibition (ENEX) 2003 (Osaka)
March 12	Opening of JHFC Park, Trial Rides
March 18	The 3rd International Electric Vehicle Symposium Exhibition on Fuel Cell Vehicles
March 22	Environment & Low Emission Vehicle Fair - Exhibition in No. 2 (Low Emission Vehicle) Division
March 23-25	International Conference on Environmentally Sustainable Transport Exhibition

Number of Low Emission Vehicles Shipped (FY 2002)

		Passenger vehicle		Truck		Bus	Total
		Standard and compact	Light motor vehicle	Standard and compact	Light motor vehicle		
Low Emission vehicles	Electric Vehicle (EV)	0	30	0	0	0	30
	Hybrid Electric Vehicle (HEV)	0	0	0	0	0	0
	Compressed Natural gas Vehicle (CNG)	0	0	383	0	7	390
	Methanol vehicle	0	0	0	0	0	0
Certified as both low fuel composition and low emission vehicles *1	☆☆☆	419,844	35,284	23,274	0	0	478,402
	☆☆	0	0	0	0	0	0
	☆	41,968	0	14,193	0	0	56,161
Diesel alternative LPG vehicles		0	0	83	0	0	83
Total		461,812	35,314	37,933	0	7	535,066

* Low emission vehicles indicate vehicles sold.

* Includes vehicles received as OEM, but not supplied as OEM.

* Diesel alternative LPG vehicles numbers indicate Atlas 20 LPG vehicles sold.

*1 Achieved fuel standards early according to the Law Concerning the Rational Use of Energy, and is certified as a low emission vehicle according to the Low Emission Vehicle Certification Guidelines.

• Certified low emission vehicle

☆☆☆ (Ultra-low emission vehicle): 75% reduction from 2000 gas emission standards

☆☆ (Excellent-low emission vehicle): 50% reduction from 2000 gas emission standards

☆ (Good-low emission vehicle): 25% reduction from 2000 gas emission standards

Number of Low Emission Vehicles Shipped (FY 2002)

		Number of shipped vehicles	
☆☆☆	March	163,198	☆
	Cube	67,452	X-Trail
	Serena	49,552	Wingroad
	Elgrand	43,517	Cube
	Sunny	36,383	Cedric / Gloria
	Moco	35,284	AD Van
	Bluebird Sylphy	23,338	Liberty
	Wingroad	22,866	Sunny
	AD Van	20,353	Bluebird Sylphy
	Liberty	18,202	Moco
	Primera	16,491	Presage
	Teana	15,476	March
	Fairlady Z	13,457	Avenir
	Skyline	5,622	Expert
	Expert	3,195	Caravan
	Avenir	1,063	Bassara
	Tino	549	Primera
		535,998	Safari
☆☆	Moco	7,813	March
	Cedric	3,977	
	Crew	3,092	
	Caravan	421	
		15,303	
			Total
			694,679

☆☆☆ (Ultra-low emission vehicle): 75% reduction from 2000 gas emission standards ☆☆☆ (Excellent-low emission vehicle): 50% reduction from 2000 gas emission standards

☆☆ (Good-low emission vehicle): 25% reduction from 2000 gas emission standards

Nissan Motor Co., Ltd. PRTR Environmental Contaminant Discharge/Displacement (FY 2002)

Substance number	Chemical substance	Amount handled	Air	Water	Transferred as waste	Buried by Nissan	Recycled	Chemically changed	Product
1	Water-soluble zinc compounds	49,207	0	357	2,729	3,592	0	1,200	41,328
9	Bis (2-ethylhexyl) apidate	6,174	0	0	0	0	0	572	5,603
13	2,2'-azobisisobutyronitrile	73	0	0	7	0	0	0	65
16	2-Ethynol amine	9,468	2	249	450	0	0	8,766	0
24	linear alkyl benzene sulfonic acid	35	0	2	33	0	0	0	0
25	Antimony and its compounds	27,770	0	0	0	0	0	0	22,770
29	Bisphenol A	21,311	0	0	0	0	0	21,311	0
30	Bisphenol A mold epoxy resin	16,416	0	35	0	0	0	871	15,509
40	Ethyl benzene	233,378	60,243	0	210	0	666	83,658	88,601
43	Ethylene glycol	2,601,380	26,289	0	0	0	89	1,960	2,573,042
44	Ethylene glycol monoethyl ether	38	37	0	0	0	0	1	0
63	Xylene	4,312,944	1,490,424	0	1,007	0	1,856,343	562,835	402,336
67	Cresol	1,710	0	0	0	0	0	1,710	0
68	Chromium and trivalent chromium compounds	32,309	0	0	27	0	0	0	32,281
69	Hexavalent chromium compounds	20	0	0	6	0	0	0	14
100	Cobalt and its compounds	185	0	0	19	0	0	0	167
101	2 ethoxyethyl acetate	281	224	0	0	0	0	57	0
109	2-(Diethylamino) ethanol	275	0	55	0	0	0	220	0
176	Organotin compounds	16,217	0	162	0	0	0	16,054	0
179	Dioxins	3,230	72	0	645	0	2,513	0	0
224	1, 3, 5 trimethylbenzene	51,751	41,625	0	0	0	1,788	8,338	0
227	Toluene	2,284,572	518,359	0	1,904	0	570,697	598,755	594,857
230	Lead and its compounds	2,794	0	0	312	2	229	0	2,251
231	Nickel	479	0	0	38	0	0	3	438
232	Nickel compounds	8,504	0	204	2,684	2,725	0	0	2,891
243	Barium and its compounds	808	0	0	804	0	0	0	5
253	Hydrazine	76	0	0	0	0	0	66	10
260	Pyrocatechol	19,260	0	0	0	0	0	19,260	0
266	Phenol	23,685	0	0	0	0	0	23,685	0
270	Di-n-Butyl Phthalate	177	7	0	0	0	0	125	44
272	Bis (2-ethylhexyl) phthalate	315,174	0	0	0	0	0	11,193	303,981
283	Hydrogen fluoride and its compounds	15,480	1,371	2,127	2,751	0	9,230	0	0
299	Benzene	97,258	177	0	67	0	0	25,407	71,608
304	Boron and its compounds	1,318	47	351	686	223	0	3	7
307	Poly (oxyethylene) = alkyl ether (C = 12 - 15)	5,534	0	127	1,929	0	0	3,478	0
309	Poly (oxyethylene) nonyl phenyl ether	7,785	1	216	685	0	433	6,450	0
310	Formaldehyde	8,339	7,119	0	2	0	0	1,204	14
311	Manganese and its compounds	380,665	0	763	1,590	5,318	0	0	372,993
312	Phthalic anhydride	144	0	0	0	0	0	12	132
314	Methacrylic acid	1	0	0	0	0	0	1	0
315	Ethylhexyl dimethacrylate	1	0	0	0	0	0	1	0
346	Molybdenum and its compounds	6,943	0	0	10	0	61	0	6,872
	Total	10,554,936	2,145,927	4,649	17,949	11,860	2,439,536	1,397,198	4,537,817

* 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.

* Only carcinogens whose annual handling volume is 500 kg or greater and other substances whose handling volume is 1 ton or greater are listed. (All dioxins are listed)

* As the figures are rounded to the first place, the sum of air, water, chemicals transferred as 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 Achievements Over the Last Five Years

1997	March	Cedric/Gloria CNGV (compressed natural gas vehicle) is released	2001	December	Serena, an ultra-low emission vehicle (☆☆☆), is released Forklift engines (gasoline and LPG) are certified for the first time by California's emission regulations	
	May	Prairie Joy EV (electric vehicle) is released Oppama Plant receives ISO14001 certification for its environmental management system		2002	January	NISSAN GREEN PROGRAM 2005 is announced Sponsoring "Nissan Environmental Meeting" Exhibition on the Coexistence of Man, Automobile, and Nature is held
	June	Nissan begins to issue Environmental Note EURO Environmental Management Committee is formed			February	Skyline, an ultra-low emission vehicle (☆☆☆), is released Primera, an ultra-low emission vehicle (☆☆☆), is released
	September	NISSAN CVT is commercialized			March	March, an ultra-low emission vehicle (☆☆☆), is released Nissan Green Shop certification is completed at all dealers
	October	Demonstration dismantling plant is opened to promote the recycling of end-of-life vehicles			April	Moco, an ultra-low emission vehicle (☆☆☆), is released
December	Nissan (NEO Di) direct-injection gasoline engine is commercialized	May	Sunny, an ultra-low emission vehicle (☆☆☆), is released Elgrande, an ultra-low emission vehicle (☆☆☆), is released			
1998	January	North American Environmental Management Committee is formed	July	Nissan Environmental and Social Report 2002 is issued Fairlady Z, an ultra-low emission vehicle (☆☆☆), is released		
	February	Sale of LEV is commenced (Cube) Nissan Vehicle Recycling Program is announced Green Office Program is launched	August	Results of the environmental survey on the former Kurihama Plant site are announced Avenir, an ultra-low emission vehicle (☆☆☆), is released Expert, an ultra-low emission vehicle (☆☆☆), is released AD Van, an ultra-low emission vehicle (☆☆☆), is released		
	March	Nissan Environmental Report (data version) is issued	September	Liberty, an ultra-low emission vehicle (☆☆☆), is released March featuring e-4WD released		
	May	R'nessa EV (electric vehicle) is released	October	Cube, an ultra-low emission vehicle (☆☆☆), is released Tino, an ultra-low emission vehicle (☆☆☆), is released		
	June	Nissan NEO Di direct-injection diesel engine is commercialized	November	Wingroad, an ultra-low emission vehicle (☆☆☆), is released		
September	A unit combining direct-injection gasoline engine and NISSAN CVT is commercialized The first Nissan Environmental Forum is held	December	X-TRAIL FCV Approved by Minister of Land, Infrastructure and Transport			
1999	February	The Nissan Green Parts supply system is expanded Fukkatsukun, an engine coolant recycling machine, is released	2003	January	Skyline Coupe, an ultra-low emission vehicle (☆☆☆), is released	
	March	All seven plants in Japan and the Product Planning, Research and Development Group acquire ISO14001 certification for environmental management systems		February	Teana, an ultra-low emission vehicle (☆☆☆), is released Nissan Achieves ultra-low emission vehicle (☆☆☆) ratio of 80% of all passenger vehicles sold in Japan	
	May	On-road testing of the Tino methanol hybrid started On-road testing of methanol reformer-equipped fuel cell vehicle started				
	June	Nissan NEO Di VQ30DD and Nissan NEO Di VQ25DD, direct-injection gasoline engines that meet 2000 exhaust emission standards, are commercialized on the new Cedric/Gloria				
	September	Participation in joint field trial projects with the ultra-small Hypermini EV Nissan Environmental Report 1999 is issued				
October	The Extroid CVT new generation transmission is installed on a vehicle for the first time in the world, on the Cedric/Gloria					
2000	January	Nissan Sentra CA, the world's cleanest gasoline vehicle, is launched in California				
	February	Hypermini ultra small electric vehicle is released				
	March	Nissan participates in The California Fuel Cell Partnership in the United States Nissan Green Shop certification system, Nissan's independent environmental certification system, is implemented at dealers Tino Hybrid is released				
	April	AD Van CNGV (compressed natural gas vehicle) is verified as ultra-low emission vehicle (☆☆☆) by the Ministry of Transportation's low emission vehicle certification system				
	August	Bluebird Sylphy, an ultra-low emission vehicle (☆☆☆), is released				
September	Nissan Environmental Report 2000 is issued Environmental actions announced for the former Ogikubo Office site					
October	Nissan Green Parts is extended throughout the country Atlas 10 LPG and Atlas 20 LPG vehicles are released					
2001	April	Public road test of Xterra FCV (high-pressure hydrogen fuel cell vehicle) is started Environmental actions announced for the former Murayama Plant site				
	August	Clean emissions model is added to the JX-w engine powered forklift				
	September	Results of the environmental survey on the former Murayama Plant site are announced Nissan Environmental Report 2001 is issued				
	October	Nissan announces the use of ultra-low emission engines on more models				
	November	Environmental survey on the former Murayama Plant site is completed				



Topics Environmental awards received in FY 2002

(): sponsoring bodies.

Nissan's efforts in environmental protection are bearing fruit as environmental improvement technologies. These technologies and activities were recognized with various awards during 2002.

The Nihon Keizai Shimbun Environmental Technology Award 2003 (Nikkei Business Publications, Inc)

The e-4WD system is engineered around a regular front drive configuration, and when compared to mechanical 4WD systems, was judged to achieve improved fuel economy, a more level and roomy interior, as well as reductions in size, weight, and cost.

2002 Westech Grand Prize - New Technology Division (Westech Executive Committee)

Nissan has developed and introduced the unique environmental certification accreditation system, the "Nissan Green Shop Certification System," which is in accordance with ISO14001. Implementation of this was completed at all sales companies by March 2002. This covers not only environmental preservation, but also economic recovery. The system is highly thought of worldwide, in other industries as well.

6th Environmental Report Awards - Award for Excellence (Global Environmental Forum)

Nissan's Environmental and Social Report 2002, issued in March 2002, was awarded the Environmental Report Awards 2 years running. Nissan has strived for thorough disclosure of information, and the report shows the responsibility and measures Nissan is taking in reducing environmentally hazardous products. The report was judged to fully illustrate Nissan's stance and activities as regards the environment.

6th Green Reporting Award, Award for Ment (Toyo Keizai Inc.)

The Environmental and Social Report that was issued in March 2002 was given this award, as it was judged to give detailed explanations of recycling, and to positively reflect readers' opinions.

Comparison of Items Included in the Environmental and Social Report

This report makes use of outside guidelines in presenting Nissan's environmental management system, policies, goals, reporting plan, etc. The chart below compares the previous editions of the Environmental Report with this version, in line with the Environmental Reporting Guidelines (February 2001) prepared by Japan's Ministry of the Environment.

We will also continue to make improvements to the sustainability report, by providing social performance based on GRI.

Items		March 1999 Edition	March 2000 Edition	March 2001 Edition	March 2002 Edition	March 2003 Edition
Ministry of the Environment Environmental Reporting Guidelines (FY 2000 Version)	Basic items					
	CEO's introductory remarks and signature	■	■	■	■	■
	Preliminary remarks and signature of officer in charge of environmental protection	■	■	■	■	■
	Corporate philosophy (management philosophy)	■	■	■	■	■
	Corporate profile	■	■	■	■	■
	Name of department that prepared the report and the contact	■	■	■	■	■
	List of disclosed materials	■	■	■	■	■
	Report time frame and date of next planned publication	■	■	■	■	■
	Environmental Management					
	Environmental philosophy and environmental policies	■	■	■	■	■
	Overview of environmental management system	■	■	■	■	■
	Organization for environmental activities	■	■	■	■	■
	Environmental audit system, if any, and methods	■	■	■	■	■
	ISO14001 certification	■	■	■	■	■
	Communications with subsidiaries, affiliates, and suppliers	■	■	■	■	■
	Emergency Measures	■	■	■	■	■
	Employee education	■	■	■	■	■
	Environmental Communication	■	■	■	■	■
	Compliance with regulatory requirements	■	■	■	■	■
	Environmental Accounting	■	■	■	■	■
Life cycle assessment	■	■	■	■	■	
Efforts to reduce environmental impact						
Responsibility specified by field		■	■	■	■	
Product Development						
Product environment policy	■	■	■	■	■	
Product environmental management organization	■	■	■	■	■	
Cleaner exhaust emissions	■	■	■	■	■	
Improving Fuel Economy	■	■	■	■	■	
Development clean energy vehicles	■	■	■	■	■	
Reducing external car noise	■	■	■	■	■	
Reducing environmental impact substances	■	■	■	■	■	
Suppressing release of air conditioner refrigerants	■	■	■	■	■	
Manufacturing						
Pre-Assessment system	■	■	■	■	■	
Product environmental management organization	■	■	■	■	■	
Promoting energy saving	■	■	■	■	■	
Waste reduction	■	■	■	■	■	
Atmospheric pollution prevention	■	■	■	■	■	
Preventing water pollution	■	■	■	■	■	
Improving management of chemical substances	■	■	■	■	■	
Contamination of soil and underground water prevention	■	■	■	■	■	
Environmental Preservation in Logistics	■	■	■	■	■	
Sales and Service						
Recycling						
Development process for recycling design	■	■	■	■	■	
Recycling targets	■	■	■	■	■	
Efforts in the development stage of new models	■	■	■	■	■	
Efforts to promote recycling of end-of-life vehicles	■	■	■	■	■	
Business activities						
Green Procurement	■	■	■	■	■	
Industrial machinery business	■	■	■	■	■	
Environmental monitoring research	■	■	■	■	■	
Relations with society (e.g., ITS)	■	■	■	■	■	
Interactive communication						
Data & Reference					□ Added business sites to report	
GRI	Social performance					
	Corporate citizenship		■	■	■	■
	Health and safety		■	■	■	■
	Employee relations				■	■
	Communication with customers				■	■
Compliance					□ Newly added	
Sustainability				■	□ More detailed	
Approach to sustainability						