

'eco ideas' Report 2009 Data File

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■ 'eco ideas' for Manufacturing

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Scope of information

Reporting period: Fiscal Year 2009 (April 1, 2008 - March 31, 2009)

Organization covered: Panasonic Corporation and consolidated subsidiaries

Data covered: All manufacturing sites (285 sites) that have established Panasonic Environmental Management Systems

* When companies included in a scope of organizations are changed, data is corrected in a retrospective manner.

* Data without any indications of fiscal years or regions refers to global result in fiscal year 2009.

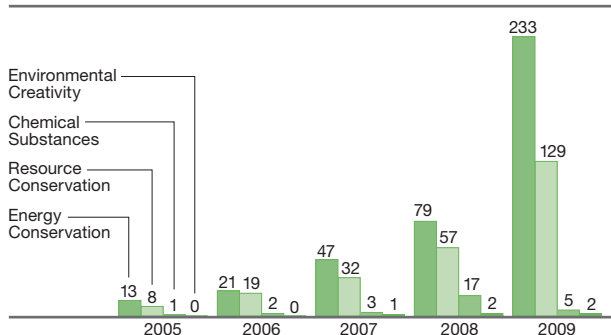
Related Page in
'eco ideas' Report 2009 \ P.00 : Page number of related articles

'eco ideas' for Products

Initiatives for Green Products

Related Page in 'eco ideas' Report 2009 [P15](#)

Breakdown of Superior GPs



Energy Conservation in Products

Related Page in 'eco ideas' Report 2009 [P17-18](#)

Reduction of annual power consumption

Products	2000 models	2008 Models	Reduction (as compared with 2000 models)
Blu-ray disk recorder	DMR-E10	DMR-BR550	82%
Heated toilet seat with warm water sprays	DL-ST30	DL-WA50	70%
Heat pump hot water supplier	HE-30T1XAS	HE-KU37BXS	67%
Tilted-drum washer/dryer	NA-SK600	NA-VR3500L	64%
Plasma TV (42 inches)	TH-42PM30/S	TH-42PX80	59%

Reduction of power consumption in standby mode

Products	2000 models	2008 Models	Reduction (as compared with 2000 models)
Blu-ray disk recorder	DMR-E10	DMR-BR550	98%
Plasma TV (42 inches)	TH-42PM30/S	TH-42PX80	96%
IH jar rice cooker (1.8L)	SR-HG18A	SR-SW182	95%
Mobile phone	P2101V	P-01A	83%
Air conditioner (2.8 kW)	CS-E280A	CS-X289A	75%

Environmental Labels

Related Page in 'eco ideas' Report 2009 [P12](#)

List of Type I Ecomark products in Japan

Items	Number of models	
	Fiscal 2009 results	Total number of models*
Electrostatic copiers	14	17
Wiring floor	3	3
Cooking oil cleaner	3	3
Total	20	23

* Number of models released as of March 31, 2009

List of registered Eco-Leaf Environment Labels (Type III) in Japan

Items	Number of models	
	Fiscal 2009 results	Total number of models*
Network cameras	6	27
Fixed telephones	6	18
Fax machines	8	17
Intercoms	4	17
PLC modems	5	9
PBX systems	2	8
Electronic whiteboards	0	6
Scanners	0	3
Wiring floor	3	3
Business fax machines	0	2
Photo printers	0	2
Electrostatic copiers	0	1
Total	34	113

* Number of models released as of March 31, 2009

Lists of products satisfying the International Energy Star Standard

Items	Number of models	
	Number of models accredited in fiscal 2009	
Computers	30	
Multi-function machines	6	
Scanner	4	
Personal fax machines	3	
Business fax machines	2	
Total	45	

* Products that are registered under the International Energy Star Program of Japan

Lists of products that acquired environmental labels (China)

From April 2008 to March 2009

Items	Conservation Labelling		China Environmental Labelling		China Ecolabelling
	Energy conservation	Water conservation	Type I	Type II	
Plasma TVs	—	—	—	11	—
LCD TVs	—	—	—	7	—
LCD projectors	10	—	—	—	10
Washing machines	13	13	—	5	—
Rice cookers	18	—	—	—	—
Air conditioners	60	—	—	5	—
Refrigerators	13	—	—	2	—
Microwave ovens	16	—	—	—	—
Multi-function machines	8	—	5	—	—
Fax machines	5	—	—	—	—
Total	143	13	5	30	10

* Source: Notice of China Certification Center



Type I Ecomark



Type III Declaration Eco-Leaf label



Energy Star declaration mark

Environmental labels used in China



Energy conservation Certification label



Water conservation Certification label



China Environmental Labelling Type I



China Environmental Labelling Type II



China Ecolabelling

'eco ideas' for Products

Products Conforming to the Law on Promoting Green Purchasing

Number of product models that conform to the Law on Promoting Green Purchasing
(as of March 31, 2009)

Product name	Number of models
Lighting fixtures	140
Air conditioners	135
Personal computers	98
Lamp bulbs ^{*1}	92
Electric hot water suppliers	81
Fluorescent lamps ^{*2}	65
Primary batteries	55
Refrigerator-freezers	26
Fax machines	24
Recording media	19
Microwave ovens	18

*1 Bulb-shaped fluorescent light

*2 Straight fluorescent light

Product name	Number of models
Multi-function machines	17
Heated toilet seat with a warm water sprays	17
Electronic whiteboards	12
Television sets	10
Car navigation systems	10
Small-sized rechargeable batteries	10
Scanners	7
Tonner cartridge	5
Disposers (recyclers)	4
Electric Toll Collection (ETC)	2

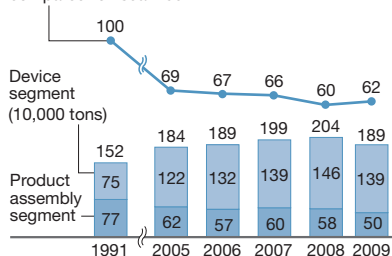
'eco ideas' for Manufacturing

Energy Conservation at Factories/Global Warming Prevention

Related Page in 'eco ideas' Report 2009 [P25-26](#)

CO₂ emissions and CO₂ emissions intensity (Japan)

CO₂ emissions per unit of actual production, compared to fiscal 1991



<Methodology for calculating CO₂ emissions>

The factors of fuels are based on the Guidelines for Calculating Greenhouse Gas Emissions (Ver. 2.2) by the Ministry of the Environment, Japan

The factors used for purchased electricity are the average of all types of power at the using end, reported by the Federation of Electric Power Companies of Japan.

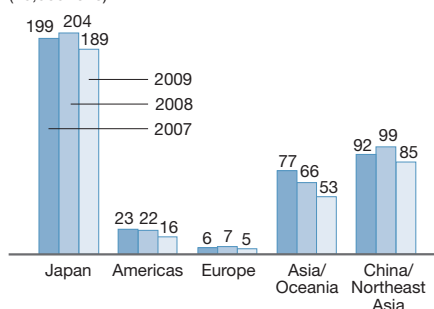
The CO₂ emissions factors (kg-CO₂/kWh) for individual fiscal years are set at 0.417 for fiscal 1991, 0.425 for fiscal 2006 and 2007 and 0.410 for fiscal 2008 and onwards.

In CO₂ emissions per basic unit of actual production¹, we reduced by 34% in fiscal 2009 compared to fiscal 1991 level when using 0.453 kg-CO₂/kWh as the newest CO₂ emission factor against a 35% reduction target in fiscal 2011 by four electrical and electronics-related associations in Japan. When using 0.417 kg-CO₂/kWh for a CO₂ emission factor, which is the same as a base year, a reduction rate in fiscal 2009 was 38%.

¹ CO₂ emission per basic unit = CO₂ emissions/(consolidated sales/Bank of Japan's corporate goods price index [electrical machinery and equipment])

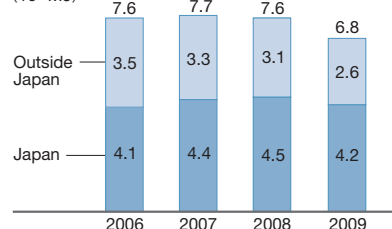
CO₂ emissions

(10,000 tons)

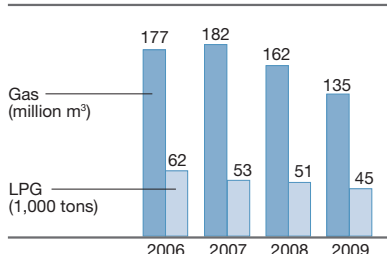


Energy consumption (global)

(10¹⁰MJ)

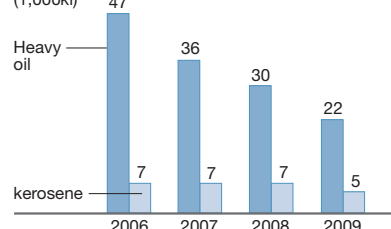


Gas/LPG consumption (Japan)



Heavy oil/kerosene consumption (Japan)

(1,000kl)



Renewable energy consumption (Japan)

Fiscal 2009	53,000 kWh
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Chemical Substance Management at Factories

Related Page in 'eco ideas' Report 2009 [P27](#)

Results of surveys on substances requiring management¹, conducted by Panasonic and its group subsidiaries

(Units: tons)

Chemical substances	PRTR category	Handled	Total amounts released and transferred	Released				Transferred ²	Re-moved ³	Re-cycled ⁴	Shipped as products ⁵
				Released into air	Released into public water-ways	Released into soil	Landfill				
Carbon dioxide		1,966.4	1,966.3	1,966.3	0.0	0.0	0.0	0.0	0.1	0.0	
Isopropyl alcohol		2,807.5	1,282.5	1,004.7	1.9	0.0	0.0	275.9	156.0	313.6	
Ethanol		448.6	313.7	298.6	0.6	0.0	0.0	14.5	39.7	20.1	
Manganese and its compounds	1	33,883.2	307.4	0.6	0.1	0.0	0.0	306.7	1.0	33,310.4	
n-butyl acetate		734.2	295.9	254.8	0.0	0.0	0.0	41.2	261.8	22.6	
2-butanone; methyl ethyl ketone		4,322.5	289.5	253.1	0.0	0.0	0.0	36.5	3,616.4	214.7	
Silica		6,834.5	272.4	15.3	8.2	0.0	0.0	248.8	1.4	6,409.1	
Toluene	1	1,010.6	264.5	257.5	0.1	0.0	0.0	6.8	152.1	247.8	
Acetone		742.3	206.6	185.8	0.4	0.0	0.0	20.5	148.0	26.2	
Methanol Methyl alcohol		5,809.5	174.6	163.0	0.0	0.0	0.0	11.7	4,421.9	680.9	
Propylene glycol mono-methyl ether		1,387.2	121.1	108.6	0.0	0.0	0.0	12.5	925.9	334.8	
N,N-Dimethylformamide	1	2,565.0	121.1	111.5	2.1	0.0	0.0	7.6	2,306.2	133.4	
n-butanol		246.3	116.5	115.9	0.0	0.0	0.0	0.6	12.0	78.4	
Calcium hydrate		4,696.3	101.6	0.0	82.1	0.0	0.0	19.5	3,064.2	498.3	
Isobutane		181.3	99.4	99.2	0.0	0.0	0.0	0.2	0.0	81.9	
Xylene	1	228.8	94.5	89.8	0.0	0.0	0.0	4.7	78.8	16.9	
Styrene	1	6,115.1	84.0	79.6	0.0	0.0	0.0	3.0	204.5	5,752.7	
Water-soluble compounds of zinc	1	6,114.3	69.0	0.0	0.0	0.0	0.0	68.9	0.4	6,026.3	
2-amino ethanol	1	66.4	60.9	2.1	14.6	0.0	0.0	44.3	2.4	0.2	
Formaldehyde	1	8,175.2	55.5	32.7	0.5	0.0	0.0	22.3	1,770.5	6,218.6	
Other PRTR substances		84,128.8	243.4	131.7	37.8	0.0	0.0	73.9	517.9	79,589.5	
Other substance groups		123,194.8	1,023.5	517.4	60.4	0.0	0.0	445.6	25,058.4	82,745.1	
Total		295,658.8	7,564.0	5,688.3	208.7	0.0	0.0	1,665.6	42,739.6	23,095.4	

¹ Based on Panasonic Chemical Substances Management Rank Guidelines (Version 3.1) and covering all substances listed in the Japanese PRTR Law.

² An amount of substances transferred as waste, as well as those discharged into the sewage system. Recycled amount which is free of charge or accompanied treatment cost under the Waste Management Law is included in "Recycled." (Different from a transferred amount reported under the PRTR Law)

³ An amount of substances converted into other substances through neutralization, decomposition or other chemical treatment.

⁴ An amount of substances recycled with revenue, as well as those recycled free of charge or with any payment.

⁵ An amount of substances that have been changed to other substances as a result of chemical reactions, and those that are contained in or accompanying products shipped out of factories.

Breakdown of release/transfer of Key Reduction-target Substances (2) (VOCs)

(Units: tons)

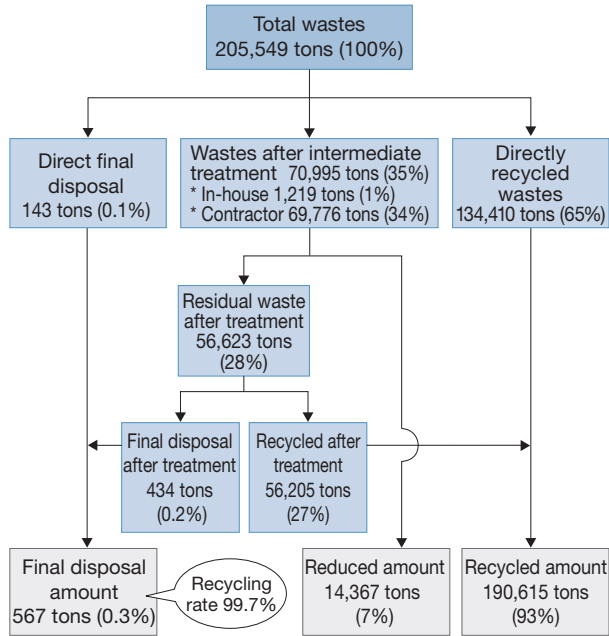
Chemical Substances	Fiscal 2006	Fiscal 2007	Fiscal 2008	Fiscal 2009
Isopropyl alcohol	1326.7	1263.6	1213.9	1282.5
Methyl ethyl ketone	612.1	525.2	483.2	289.5
Toluene	406.0	336.0	304.3	264.5
n-Butyl acetate	395.1	313.6	310.1	295.4
Methyl alcohol	367.8	226.9	207.5	174.6
Ethanol	318.3	336.7	331.8	313.7
Acetone	307.9	319.3	275.0	206.6
Xylene	319.1	232.6	197.3	94.5
Propylene glycol monomethyl ether	150.8	152.1	181.0	121.1
Styrene	146.1	145.0	111.9	84.0
Ethyl acetate	102.3	72.7	71.4	42.8
n-Butanol	98.6	130.0	156.9	116.5
Methyl isobutyl ketone	81.4	68.4	58.3	52.8
Dichloromethane	33.8	8.4	0.7	0.0
Cyclohexanone	28.3	32.2	28.7	26.5
Ethyl benzene	19.2	23.2	19.5	19.7
n-Heptane	5.6	2.5	2.3	2.8
Tetrahydrofuran	2.3	1.5	1.2	0.5
Trichloroethylene	0.2	0.0	0.0	0.0
Chloroform	0.0	0.0	0.1	0.2
Total	4721.7	4189.8	3955.1	3388.3

'eco ideas' for Manufacturing

Waste Reduction at Factories

Related Page in 'eco ideas' Report 2009 P28

Flowchart of waste treatment (Japan)



Amount of in-house circulating resources (Japan) (Units:tons)

Amount of in-house recycling ¹	7,631
Amount of recycling after in-house intermediate treatment ¹	1,320
Amount of in-house heat recovery ²	0

¹ Amount of internally reused resources
² Amount of internally heat-recovered resources

Breakdown of amount of total wastes (Japan) (Units:tons)

Items	Amount of waste arisings	Amount of recycled resource	Amount of final disposal
Metal	52,100	51,965	1
Paper	19,868	19,161	64
Plastics	32,093	29,525	117
Acids	29,548	25,906	24
Sludge	18,473	17,075	72
Wood	11,533	11,318	1
Glass/ceramics	10,916	10,880	20
Oil	7,691	6,975	9
Alkalis	5,619	3,152	199
Others	17,708	14,658	60
Total	205,549	190,615	567

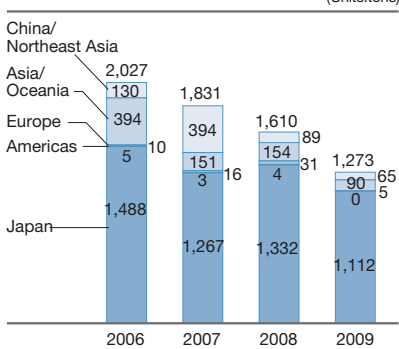
Compliance Management at Factories

Related Page in 'eco ideas' Report 2009 P30

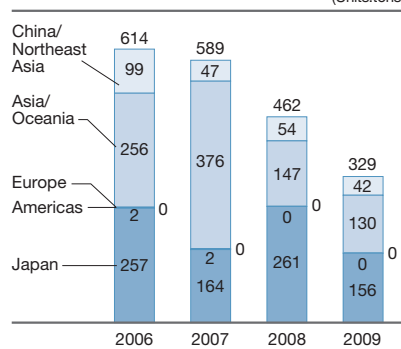
Impact on the air and public waterways (Japan)

* Aggregated data of business sites in countries that have regulations in place

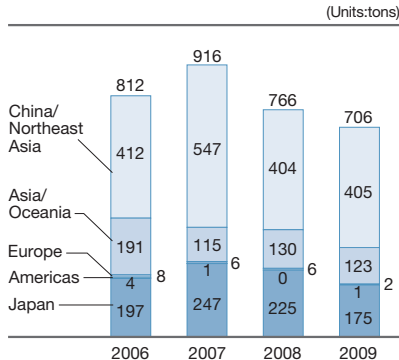
NOx emissions (air) (Units:tons)



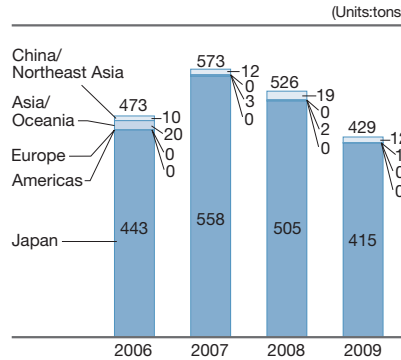
SOx emissions (air) (Units:tons)



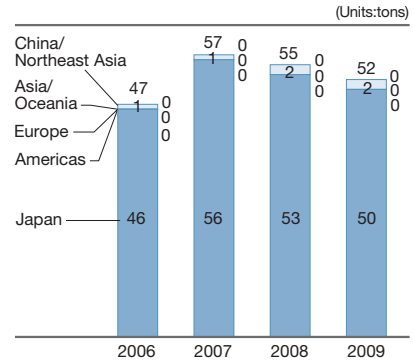
COD pollution (public waterways) (Units:tons)



Nitrogen pollution (public waterways) (Units:tons)



Phosphorus pollution (public waterways) (Units:tons)



'eco ideas' for Manufacturing

Energy Conservation in Offices

Related Page in 'eco ideas' Report 2009 **P30**

Result of green purchasing (Japan)

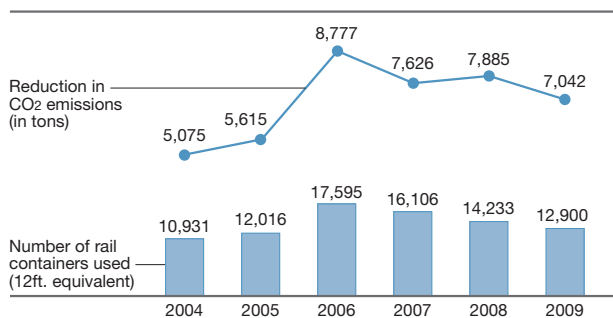
Category	Item	Amount in Green Purchasing items (unit: million yen)	Amount in non-Green Purchasing items (unit: million yen)	Total (unit: million yen)	Green purchasing rate(%)
		fiscal2009 (fiscal2008)			
Paper	Copy paper	216 (102)	0 (0)	216 (102)	100% (100%)
	Printing paper	1,899 (693)	0 (0)	1,899 (1,693)	100% (100%)
Office stationery	Notebooks, writing instruments, files, etc.	205 (242)	48 (79)	253 (320)	81% (76%)
Office automation equipment	Printers	81 (45)	0 (0)	81 (45)	100% (100%)
	PCs	1,032 (2,440)	0 (0)	1,032 (2,440)	100% (100%)

* Actual bulk purchases by the Company

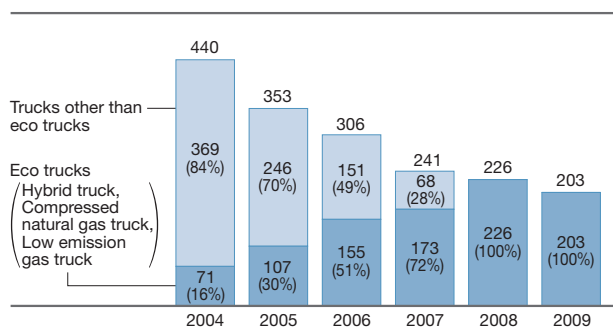
Green Logistics

Related Page in 'eco ideas' Report 2009 **P31**

CO₂ emission reduction effect by railroad transportation (Japan)



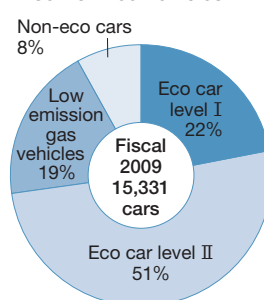
Introduction of self-owned eco trucks (Japan)



* From fiscal 2007, vehicles that will shortly be taken out of service have been excluded from the scope

* Reduced due to the promotion of outsourcing in fiscal 2009. Eco trucks reduced in fiscal 2009 has been utilized by partner companies

Rate of eco car introduction in self-owned vehicles

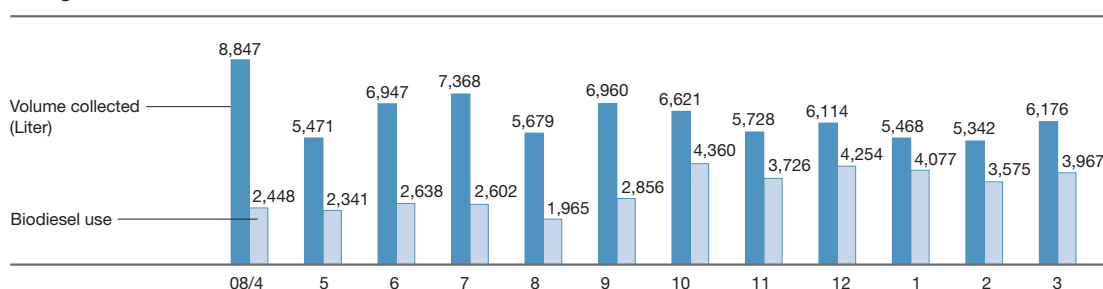


* As of the end of March 2009, excluding trucks

Definition of eco cars

Level 1
<ul style="list-style-type: none"> ● Electric powered vehicles ● Natural gas powered vehicles ● Methanol gas powered vehicles ● Hybrid vehicles ● Fuel cell powered vehicles ● Vehicles that achieve more than 75% reduction against the standard gas emission levels for fiscal 2006 and a fuel efficiency of 5% higher than fiscal 2011 standard levels
Level 2
<ul style="list-style-type: none"> ● Vehicles that achieve more than 75% reduction against the fiscal 2006 standard gas emission levels and 2011 standard fuel efficiency levels ● Vehicles that achieve more than 50% reduction against the standard gas emission levels for fiscal 2006 and fuel efficiency higher than fiscal 2011 levels

Changes in volume of collected waste oil and biodiesel fuel use



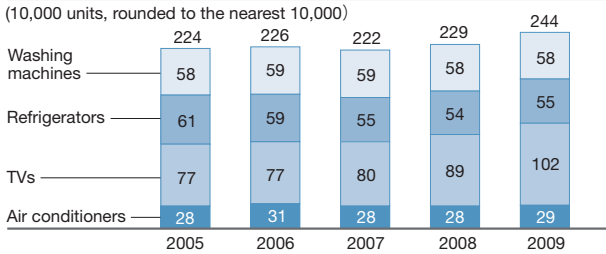
'eco ideas' for Manufacturing

Product Recycling

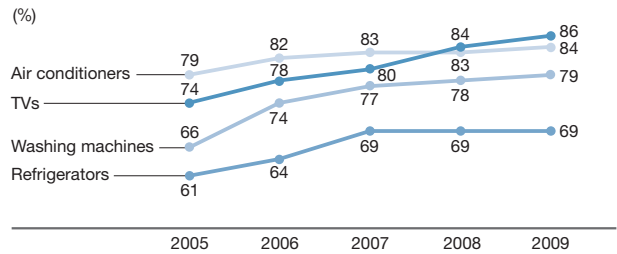
Related Page in 'eco ideas' Report 2009 P32

As a result of our recycling activities in fiscal 2009 (April 1, 2008 to March 31, 2009) based on the Law for Recycling of Specified Kinds of Home Appliances.

Number of products recycled (Japan)



Recycling rates of waste specified kinds of home appliances (Japan)



Overview of recycled 4 end-of-life products (Japan)

Numbers after the decimal point are truncated.

	Air conditioner	TV	Refrigerator /Freezer	Washing machine
Collected units at designated collection points [1,000 units] ^{*1}	294	1,047	546	574
Treated units for recycling and others[1,000 units] ^{*2}	295	1,017	546	576
Treated amount for recycling and others[tons] ^{*2}	12,748	31,660	33,819	19,760
Weight of recycled units [tons]	10,797	27,414	23,600	15,754
Recycling rate [%]	84	86	69	79

*1 "Collected units at designated collection points" and "Treated units for recycling" do not include units in case the manufacturer responsible for recycling has not been determined due to misentries in manifests and for other reasons.

*2 "Treated units for recycling" and "Treated amount for recycling" refer to the total (volume and weight) of waste electric appliance that have been treated for recycling in fiscal 2009.

Overview of the recycled parts and materials (Japan)

Total weight of the recycled parts and materials transferable for a fee or free of charge.

Numbers after the decimal point are truncated.

	Air conditioner	TV	Refrigerator /Freezer	Washing machine
Iron	4,750	2,522	15,538	9,189
Copper	854	1,009	398	204
Aluminum	797	17	16	216
Mixture including ferrous or non-ferrous materials	3,534	610	3,200	1,943
CRT glass	—	17,560	—	—
Other valuable materials ^{*3}	861	5,694	4,446	4,200
Total weight	10,797	27,414	23,600	15,754

*3 "Other valuable materials" are plastics, etc.

Weights of collected, shipped, and destroyed refrigerant fluorocarbons (Japan)

Unit: kg, decimals truncated.

	Air conditioner	Refrigerator /Freezer
Weight of collected refrigerant fluorocarbons	167,620	57,358
Weight shipped to consigned destroying companies of coolant fluorocarbons	166,746	56,460
Weight of destroyed coolant fluorocarbons	166,133	55,858

Weights of fluorocarbons liquefied and collected from heat insulation sipped and destroyed (Japan)

Unit: kg, decimals truncated.

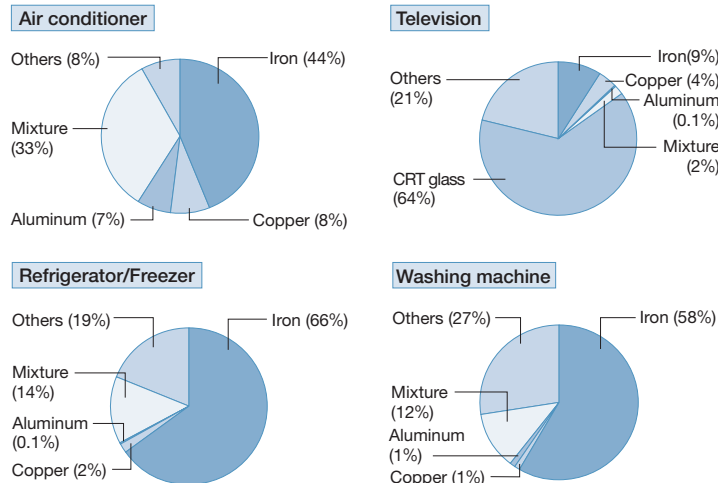
	Air conditioner	Refrigerator /Freezer
Weight of fluorocarbons liquefied and collected from heat insulation	—	123,028
Weight of fluorocarbons shipped to consigned destroying companies after liquefied and collected from heat insulation	—	120,756
Weight of fluorocarbons liquefied and collected from heat insulation, then destroyed	—	116,811

* Difference between weight of collected fluorocarbons and weight of shipped fluorocarbons is backlog

* Weight of shipped fluorocarbons and weight of destroyed fluorocarbons partly include weight of fiscal 2008

* Difference between weight of shipped fluorocarbons and weight of destroyed fluorocarbons is due to time-lag of reporting of destroying.

Breakdown of recycled materials by product family (Japan)



'eco ideas' for Everybody, Everywhere

Environmental Communication

Environmental communication results (handled by the head office of Panasonic Corporation)

Media/activities	Results	Media/activities	Results
Website (in Japanese)	Approx. 1.68 million page views	Lecture meeting	16
Website (in English)	Approx. 490,000 page views	Interview with reporters	10
Stakeholder dialogue	2	News release	28
TV commercial	12	Response to surveys/questionnaires	35
Newspaper advertisement	27	Inquiry/information request	2,490

History of environmental report issuance

Year	Number of copies			Number of pages	Date of issuance
	Japanese	English	Chinese		
Environmental Report					
1997	17,000	8,000	—	24	February 1998
1998	10,000	10,000	—	28	March 1999
1999	18,000	5,000	—	40	September 1999
2000	22,000	5,000	—	56	September 2000
2001	20,000	5,000	—	66	September 2001
2002	25,000	5,000	—	78	June 2002
Environmental Sustainability Report					
2003	35,000	5,000	—	92	June 2003
2004	25,000	8,000	4,000	76	June 2004
The Panasonic Report for Sustainability					
2005	30,000	10,000	4,000	54	June 2005
2006	30,000	10,000	5,000	62	June 2006
2007	20,000	7,000	6,000	42	June 2007
2008	14,000	8,000	5,000	30	June 2008

History of Environmental Data Book issuance

Year	Number of copies			Number of pages	Date of issuance
	Japanese	English	Chinese		
2005	10,000	5,000	5,000	66	August 2005
2006	10,000	5,000	5,000	68	August 2006
2007	13,000	5,000	5,000	66	June 2007
2008	13,000	5,000	3,000	72	June 2008

Participation in major exhibitions (fiscal 2009)

Exhibitions	Venues	Period
'eco ideas' World	Tokyo/Osaka/Fukuoka/Nagoya/Sendai/Hokkaido	April-July 2008
China Beijing International Hi-Tech Expo	Beijing (China)	May 2008
Interop Tokyo2008	Tokyo	June 2008
IFA 2008	Berlin (Germany)	August 2008
Home Care and Rehabilitation Exhibition 2008	Tokyo	September 2008
CEATEC JAPAN	Tokyo	September 2008
GITEX 2008	Dubai(UAE)	October 2008
International Broadcast Equipment Exhibition 2009	Tokyo	November 2008
electronica2008	Munich(Germany)	November 2008
Eco-Products 2008	Tokyo	December 2008
CES2009	Las Vegas (USA)	January 2009
Eco-Products International Fair	Manila(Philippines)	March 2009
SECURITY SHOW 2009	Tokyo	March 2009

On-site environmental communication results (by region)

	Japan	Americas	Europe/Africa	Asia/Oceania	China/North-East Asia
Site tours (visitors)	72,051	581	676	3,919	1,339
Community contribution activities* (frequency)	930	22	13	807	411

* Environmental events involving our participation and cooperation, including briefings to local residents on our environmental activities and other such meetings.

Number of business sites disclosing information in reports, on websites, or through other media (by region)

Japan	Americas	Europe/Africa	Asia/Oceania	China/North-East Asia
133	16	19	45	61

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Environmental Communication

Major awards in the environmental field (fiscal 2009)

Category	Presenter and the awards	Specific prize	Recipient company and details
Environmental sustainability management	China Entrepreneur Magazine, Daonong Center for Enterprise and Guanghua School of Management, Beijing University Second China Green Awards	China Green Company Award	Panasonic Corporation of China
	Nikkei Inc. Fifth Nikkei Manufacturing Awards	Manufacturing Grand Prize	Kusatsu Plant, Home Appliances Company, Panasonic Corporation
	Interop Tokyo 2008 [Best of Show Award]	Grand prix for ecology	Panasonic Group's 'eco ideas' Declaration
Products & Services	Ministry of Economy, Trade and Industry, Japan 19th Energy Conservation Grand Prize for excellent energy conservation equipment,	Director General Prize of Agency of Natural Resources and Energy	Home Appliances Company, Panasonic Corporation Natural refrigerant (CO ₂) heat pump water heater, Eco Cute Panasonic Ecology Systems Co., Ltd. DC motor-type ceiling-mounting ventilation fan, Ceiling-mounted DC
		Chairman Prize of ECCJ (the Energy Conservation Center, Japan)	Home Appliances Company, Panasonic Corporation Single split type room air conditioner, Comfort and Energy-saving Air Conditioner equipped with nanoe AIR ROBO (X series)
	Eco-Products Awards Steering Committee The 5th Eco-Products Awards	Chairperson's Award, Eco-Products Awards Steering Committee in Eco-Products Category	Panasonic Cycle Technology Co., Ltd. Business Eco bike (office-use electrically assisted hybrid bicycle) (BE-EPBS632S, BE-EPBU432S) Panasonic Electric Works Co., Ltd. E Floor series (wooden floor material)
	Life Cycle Assessment Society of Japan Fifth Japan LCA Forum Awards	Prize from the Director-General of the Industrial Science and Technology Policy and Environment Bureau, Ministry of Economy, Trade and Industry	Panasonic Corporation Reduction of CO ₂ emissions by 60% in an entire house
	Japan Center for Area Development Research (supervised by the Ministry of Land, Infrastructure, Transport and Tourism) House of the Year in Electric 2008	Grand prize	PanaHome Corporation EL SOLANA
Prevention of global warming	Ministry of Economy, Trade and Industry Awarding of Excellent Energy Conservation Factory & Building	Minister Prize of Economy, Trade and Industry	Tonami Plant, Semiconductor Company, Panasonic Corporation Panasonic Semiconductor Opto Devices Co., Ltd.
		Prize from the Director-General of the Kansai Bureau of Economy, Trade and Industry	Panasonic Welding Systems Co., Ltd.
Resource utilization	Ministry of Economy, Trade and Industry First Supply Chain Resource Conservation Model Awards	Grand prize	Panasonic Ecology Systems Co., Ltd.
	Clean Japan Center Foundation Resource Recycling Technology and System Awards	Prize from the Director-General of the Industrial Science and Technology Policy and Environment Bureau, Ministry of Economy, Trade and Industry	Panasonic Eco Technology Center Co., Ltd.
Management of chemical substances	Ministry of the Environment Commendation for person of merit in volatile organic compound (VOC) measures	Prize for person of merit in VOC measures	Fukushima Plant, DSC Business Unit, Network Business Group, AVC Networks Company, Panasonic Corporation
	Center for Environmental Information Science PRTR Awards 2008	Prize for encouragement	Amagasaki Plant, Panasonic Plasma Display Co., Ltd.
Environmental communication	Green Reporting Forum, Toyo Keizai Inc. 12th Green Reporting Award and Sustainability Reporting Award	Prize for excellence in Green Reporting	Panasonic Corporation Environmental Data Book 2008
	NTT Resonant Inc. Environment goo Awards 2008	Prize for excellence in the Kids category	Panasonic Eco Technology Center Co., Ltd. Eco Tech Kids website
	Dentsu Inc. 61st Dentsu Advertising Award	Grand Award in the newspaper advertising category (industry and housing category)	Panasonic Corporation Wall surface greening system, "Wall surface forests, cool cities"
		Dentsu Advertising Award in the radio advertising category	Panasonic Corporation 'eco ideas' "Nakunaru"
	The Nikkan Kogyo Shimbun, Ltd. 43rd Japan Industrial Advertisement Awards	Honorable mention in the first category	Panasonic Corporation Energy saving and creation, "Toyako"
		Ranked first in the second category	Panasonic Corporation Palook Ball, "Festival"
		Ranked third in the first information magazine category	Panasonic Corporation Copper recycling, "Cu again"
	FujiSankei Business i. 47th Business Advertisement Awards	Bronze prize for wide advertisement	Panasonic Corporation Palook Ball, "Lighting waste reduction"
		Gold prize for large-sized advertisement	Panasonic Corporation Semiconductor IPD, "Chorocho Denki"
		Gold prize for series advertisement run below articles	Panasonic Corporation National eco technologies, "Specters"
Nikkei Inc. 35th Nikkei Sangyo Shimbun Advertising Award	Award for electronics	Panasonic Corporation "Office lighting, W-ECO"	

Major honors in the environmental field (fiscal 2009)

Listed in the Dow Jones Sustainability Index, Global 100 Most Sustainable Corporations in the World, FTSE4Good Global 100 Index, and Carbon Disclosure Leadership Index of Carbon Disclosure Project
Ranked 4th among 510 manufacturers in the Nikkei Environmental Management Survey
Graded AA by Tohatsu Evaluation and Certification Organization Co., Ltd.

Environmental Management

Environmental Management System

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ISO 14001 Certification Sites

* As of March 31st, 2009. Date of Registration refers to a date when the first ISO 14001 certification was registered, regardless of changes in certification organizations.

Type	Sites	Major Products, Business Fields	Certification Organizations	Certification Number	Date of Registration
Japan (Manufacturing)	AVC Networks Company of Panasonic Corporation				
	Multiple-site Certification Group (11 sites)	PDP, PC, DVD, Camera	JACO	EC98J2010	1995 Nov.
	Home Appliances Company of Panasonic Corporation				
	Multiple-site Certification Group (Home Appliances Company, Mana Precision Casting Co.,Ltd.)	Air conditioner, Washing machine, Refrigerator, Heat exchanger, Vending machine, Compressor	LRQA	YKA0771754	1997 Feb.
	Multiple-site Certification Group (4 business units)	Hygiene toilet seat, Meter, Electric pot, Microwave oven	JACO	EC97J1124	1997 Nov.
	Cooking Equipment Business Unit	IH rice cooker, Cooking appliance	JET	E98-043	1998 Apr.
	Laundry Business Unit (Kusatsu)	Dish washer & dryer	LRQA	YKA4004116	1998 Jul.
	IH Cooking Heater Business Unit	IH cooking heater	JET	E06-525	1998 Jun.
	Cleaner Business Unit	Vacuum cleaner, Garbage disposer	JACO	EC98J1017	1998 Jun.
	Motor Company of Panasonic Corporation				
	Multiple-site Certification Group (Motor Company, Panasonic Motor Matsuzaka Co., Ltd.)	Home appliance/IT device motor, Industrial compact geared motor	LRQA	YKA0771761	1997 Feb.
	Lighting Company of Panasonic Corporation				
	Multiple-site Certification Group (Lighting Company, Panasonic Lighting Kagawa Co., Ltd., Panasonic Photo & Lighting Co., Ltd.)	Fluorescent lamp, Light bulb, Back light	JACO	EC99J2017	1996 Sep.
	Automotive Systems Company of Panasonic Corporation				
	Matsumoto Site	Car navigation system, Car audio equipment, Car TV, Engine controller	LRQA	YKA771743	1997 Jun.
	Panasonic Mobile Communications Co., Ltd., Panasonic Shikoku Electronics Co., Ltd., System Solutions Company of Panasonic Corporation, Panasonic MCE Co., Ltd., Panasonic MCGS Co., Ltd.				
	Multiple-site Certification Group	Infrastructure System, Communications network system, security, hearing aid	LRQA	YKA0771842	1997 Dec.
	Semiconductor Company of Panasonic Corporation				
	Multiple-site Certification Group (Semiconductor Company, Panasonic Semiconductor Discrete Devices Niigata Co., Ltd.)	Semiconductor, System LSI	JACO	EC97J1114	1997 Nov.
	Multiple-site Certification Group (Panasonic Semiconductor Discrete Devices Co., Ltd., Panasonic Semiconductor Discrete Devices Kumamoto Co., Ltd.)	Semiconductor, Lead frame, Transistor	JACO	EC97J1029	1997 Jun.
	Panasonic Semiconductor Opto Devices Co., Ltd.	LED, Photointerrupter, Photocoupler	JQA	JQA-E-80029	1997 Mar.
	Shirakawa Site	Microphone, Cell phone camera, In-vehicle camera	JACO	EC98J2012	1995 Dec.
	Energy Company of Panasonic Corporation				
	Multiple-site Certification Group (4 sites)	Batteries	LRQA	YKA0771898	1998 Jul.
	Panasonic Electronic Devices Co., Ltd.				
	Multiple-site Certification Group (Panasonic Electronic Devices Co., Ltd., Panasonic Electronic Devices Japan Co., Ltd., Panasonic Electronic Devices Yamanashi Co., Ltd., Panasonic Electronic Devices Nitto Co., Ltd.)	Electronic components	JQA	JQA-EM1015	1996 Oct.
	Panasonic Ecology Systems Co., Ltd.				
	Multiple-site Certification Group (Panasonic Ecology Systems Co., Ltd. (Headquarters), Ventec, Inc., Navec Co.,Ltd.)	Dehumidifier, Ventilating fan	JACO	EC99J2042	1996 Dec.
	Multiple-site Certification Group (Panasonic Ecology Systems Osaka Co., Ltd., Panasonic Ecology Systems Kyoei Co., Ltd.)	Filters, Ventilating fan	JACO	EC97J1194	1998 Feb.
	Panasonic Ecology Systems Oyabe Co., Ltd.	Production and sales of fans and motors	JMA	JMAQA-085	1997 Dec.
	Panasonic Communications Co., Ltd.				
	Oita Site	IC lead frame, Magnetic/IC card reader and writer	LRQA	YKA0771777	1998 Mar.
	Kumamoto Site	Optical disc drive, PBX	LRQA	YKA0771785	1998 Mar.
	Saga Site	IP products, Cordless telephone, Scanner, Electric white board	LRQA	YKA0771152	1997 Jul.
	Niigata Site	Fax machine, Digital imaging system	JACO	EC97J1020	1997 May.
	Utsunomiya Site	Digital imaging equipments	JACO	EC97J1223	1998 Mar.
	Panasonic Communications Kyushu Co.,Ltd.	Devices	JQA	JQA-E-90082	1997 Dec.
	Panasonic Communications Graphics Co.,Ltd.	Press reporting equipment	JACO	EC98J1114	1998 Dec.
	Panasonic Factory Solutions Co., Ltd.				
	Tosu Business Unit	Electronic chip mounting	LRQA	YKA0771759	1997 Aug.
	Kofu Business Unit	Electronic chip mounting	LRQA	YKA4004089	1997 Dec.
	Kitakadoma Business Unit	Micro-electronics mounting system	LRQA	YKA4004176	1998 Mar.
Panasonic Mobile Communications Co., Ltd					
Shizuoka Site	Cell phone	LRQA	YKA0771841	1997 Dec.	
Panasonic Shikoku Electronics Co., Ltd.					

Environmental Management

Type	Sites	Major Products, Business Fields	Certification Organizations	Certification Number	Date of Registration	
Japan (Manufacturing)	Multiple-site Certification Group (4 sites)	Health care business, Device business, Visual business	JACO	EC97J1224	1998 Mar.	
	Panasonic Welding Systems Co., Ltd.					
	Multiple-site Certification Group (Panasonic Welding Systems Co., Ltd., Panasonic Welding Systems Kaga Co., Ltd., Panasonic Welding Systems Engineering Co., Ltd, Panasonic System Solutions Facilities Co., Ltd., AMTEC Co., Ltd.)	FA/welding equipment, Observation controlling system equipment, industrial material	JACO	EC97J1213	1998 Mar.	
	Panasonic Electric Works Co., Ltd.					
	Multiple-site Certification Group (34 companies)	Lighting, Information system, Housing equipment, Building materials, Control equipment, Electric materials	LRQA	YKA0770279	1996 May.	
	Panasonic Electric Works Steel Pipe&Tube Co., Ltd.	Conduit tube	JQA	JQA-EM5124	2006 Jan.	
	Multiple-site Certification Group (SUNX Limited, KYUSHU SUNX Limited)	Sensors, LMP products, AiS products	JQA	JQA-EM0528	1999 Sep.	
	PanaHome Corporation					
	Multiple-site Certification Group (2 sites)	Production of components for prefabricated housing	JTCCM	RE0206	2000 Oct.	
	Panasonic Poly Technology Co., Ltd.	Bicycle tire, Tube, Industrial rubber and resin component	CIJ	CI/1185E	2003 Dec.	
	Panasonic Eco Technology Center Co., Ltd.	Recycling for used products	JACO	EC01J0383	2002 Mar.	
	Panasonic Cycle Technology Co., Ltd.	Production and sales of bicycles	JACO	EC99J1013	1999 May.	
	Shin Nihon Kogyo Co., Ltd.	Print services	JCQA	JCQA-E-0551	2004 Apr.	
	Wakayama Precision Company	Compressor	JACO	EC98J1124	1998 Dec.	
	Panasonic Eco Technology Kanto Co., Ltd.	Recycling for used products	JACO	EC07J0191	2008 Mar.	
	Panasonic Kibi Co., Ltd.	DVC camcorder assembly, DVC LCD unit & lens unit	JACO	EC98J1056	1998 Sep.	
	Panasonic Katano Co., Ltd	Micro cassette tape, PDP TV component assembly	JACO	EC98J1142	1999 Jan.	
	Japan (Non-manufacturing)	Panasonic Corporation				
		Headquarters and other related offices (Kadoma Site, OBP Site, Tokyo Site)		JACO	EC98J1049	1998 Aug.
Corporate Manufacturing Innovation Division (Minamikadoma, Kitakadoma)			JACO	EC97J1235	1998 Mar.	
R&D group			JACO	EC98J1046	1998 Nov.	
Corporate Industrial Marketing & Sales group			JACO	EC00J0167	2000 Dec.	
Panasonic Communications Co., Ltd.						
Headquarters			LRQA	YKA0771775	1997 Dec.	
Meguro Site, Panasonic Communications Solutions Co., Ltd. Headquarters			JACO	EC01J0209	2001 Dec.	
Panasonic Mobile Communications Co., Ltd						
Panasonic Mobile Communications R&D Lab. Co.,Ltd. (3 sites)			LRQA	YKA0773020	2002 Mar.	
Panasonic Factory Solutions Co., Ltd.						
Panasonic Factory Solutions Co., Ltd. Tokyo Site, Panasonic Factory Solutions Sales & Engineering Japan Co., Ltd.			JQA	JQA-EM1845	2001 Oct.	
Panasonic Ecology Systems Co., Ltd.						
Panasonic Environmental Systems & Engineering Co., Ltd.			JACO	EC00J0288	2001 Mar.	
Panasonic Electric Works Co., Ltd.						
Panasonic Electric Works Engineering Co., Ltd. Headquarters			JTCCM	RE0409	2005 Jan.	
Panasonic Electric Works Techno Service Co., Ltd. Headquarters			LRQA	YKA4002692	2003 Dec.	
Panasonic Electric Works Building Management Co., Ltd.			LRQA	YKA0773076	2002 Dec.	
Panasonic Logistics Co., Ltd.			JACO	EC00J0062	2000 Jul.	
Panasonic Health Insurance Organization, Science Center of Industrial Hygiene		JACO	EC99J1234	2000 Mar.		
Americas (Manufacturing)	Panasonic Disc Manufacturing Corporation of America	Wii game discs, Blu-ray discs	UL	A6976	1999 Apr.	
	Panasonic Avionics Corporation	Flight entertainment systems	UL	A9111	2001 Jan.	
	Panasonic do Brasil Ltda. (Manaus)	Micro wave oven, TV, Audio, Video	BRTUV	A-169	1998 Aug.	
	Panasonic Automotive Systems de Mexico S.A. de C.V.	Car audio equipment	BSI	EMS538591	1997 May.	
	Panasonic Peruana S.A.	Dry battery	DNV	4882-2007-AE-BRA-RvA	1998 May.	
	Panasonic Home Appliances de Mexico S.A. de C.V.	Vacuum cleaners units, Car seat heater	DNV	02193-2005-AE-HOU-ANAB	1999 Feb.	
	Panasonic Electric Works Mexicana S.A. de C.V.	Switching device, Lighting fixture, Home appliance	DNV	CERT-02937-2004-AE-HOU-ANAB	2000 Nov.	
	Panasonic Centroamericana S.A.	Dry battery	BVI	202242	1999 Mar.	
	Panasonic Energy Corporation of America, Lithium Battery Division	Lithium primary battery	BVI	US08000358	1999 Jan.	
	Panasonic Energy Corporation of America, Material Division	Materials for batteries	BVI	US08000291	1999 Jan.	

Environmental Management

Type	Sites	Major Products, Business Fields	Certification Organizations	Certification Number	Date of Registration
Americas (Manufacturing)	Panasonic do Brasil Ltda.	Dry battery	BVC	BR 227200	1999 Mar.
	Panasonic Corporation of North America, Panasonic AVC Networks Company America	TV	BSI	EMS39506	1996 May.
	Panasonic Electronic Devices de Tamaulipas, S.A. de C.V.	Speaker, Switch, Sensor	BSI	EMS53398	2000 Jan.
	Panasonic Electronic Devices Corporation of America	Electrolytic capacitor, Car speaker, Aluminum foil	AWM	00012	1997 Aug.
	Panasonic Corporation of North America, Panasonic Automotive Systems Company of America	Automobile equipment	BSI	EMS62857	1998 Nov.
	Panasonic de Mexico, S.A. de C.V.	Color TV, Stereo	TUV	950 99 0441	1999 Jun.

Type	Sites	Major Products, Business Fields	Certification Organizations	Certification Number	Date of Registration
Europe (Manufacturing)	Panasonic Energy Poland S.A.	Dry battery	KEMA	99654	1998 Nov.
	Panasonic AVC Networks Czech, s.r.o.	TV	SGS	CH07/0610	1998 Nov.
	Multiple-site Certification Group (Vossloh-Schwabe Deutschland GmbH, Vossloh-Schwabe Italia S.p.A., Elektrobau Oschatz GmbH & Co. KG, Vossloh-Schwabe Optoelectronic GmbH & Co. KG, Vossloh-Schwabe France, S.a.r.l., Vossloh-Schwabe Thailand Ltd., Panasonic Electric Works Vossloh-Schwabe GmbH)	Lighting fixture-related device	DQS	DE-000421UM	2006 Jan.
	Panasonic AVC Networks Slovakia s.r.o.	DVD recorder	SKQS	359/06	1997 Dec.
	Panasonic Automotive Systems Czech s,r,o	Car audio	CQS	CQS 56/2009	2003 Feb.
	Panasonic Communications Company (U.K.) Ltd.	Digital PBX, Cordless telephone sett	BSI	34828	1996 Sep.
	Panasonic Manufacturing (U.K.) Ltd.	Microwave oven, Set-top box, PC	BSI	4695997	1997 Jul.
	Panasonic Electric Works Europe AG, German factory	Relay, Switching device	BVC	DE6000326B	1998 Oct.
	Panasonic Electric Works Electronic Materials Europe GmbH	Laminate	OQS	089/0	1999 Oct.
	Panasonic Electric Works Electronic Materials Italia S.p.A	Laminate	CSQ ECO	9191.MATS	2002 Dec.
	Panasonic Electric Works Czech, s.r.o.	Switching device	BVQI	104034	2002 Jan.
	Panasonic Electronic Device Slovakia s.r.o.	Tuner, Power supply, Control drives, Speaker	TUV SUD	12 100/104 28395/02 TMS	2000 Jul.
	Panasonic Energy Belgium N.V.	Dry battery	KEMA	8999	1998 Nov.

Type	Sites	Major Products, Business Fields	Certification Organizations	Certification Number	Date of Registration
Asia/Oceania (Manufacturing)	PT. Panasonic Gobel Energy Indonesia	Dry battery, Battery application equipment, Lithium battery	ABSQEI	32461	1997 Feb.
	Panasonic AVC Networks Johor Malaysia Sdn. Bhd.	Audio and video products	BVQI	200336	1997 Feb.
	Panasonic Electronic Devices Vietnam Co.,Ltd	Tuner, Volume, Encoder, Speaker	BVC	230775	2008 May.
	Panasonic Communications Vietnam Co.,Ltd	BPX, Optical disk drive	BVC	230776	2008 May.
	Panasonic AVC Networks Vietnam Co., Ltd.	TV, BVQI	BVC	230809	2001 Oct.
	Panasonic Electric Works (Ayuthaya) Co., Ltd.	Molding material, Sealant, Wiring device, lighting fixture	LRQA	BGK403378	1999 Nov.
	Panasonic AVC Networks India Co., Ltd.	CRT TV, LCD TV	TUV NORD	04 104 01 0375-E3	2001 Mar.
	Panasonic Carbon India Co., Ltd.	Dry battery carbon rod	TUV	44 104 000064-E3	1998 Jul.
	Panasonic Home Appliances India Co., Ltd.	Rice cooker	TUVCERT	44 104 980085 - E3	1998 Dec.
	Panasonic Energy India Co., Ltd.	Dry battery	TUV NORD	44104010402-E3	1998 Feb.
	Panasonic Refrigeration Devices Singapore Pte. Ltd.	Compressor	TUV SUD PSB	96-0004	1996 Nov.
	Panasonic Factory Solutions Asia Pacific Pte. Ltd	AI machine, SMT machine	TUV SUD PSB	97-0019	1997 Dec.
	PT. Panasonic Electronic Devices Batam	Speaker, Resistor, Transformer, Coil	AJA	AJA 04/7248	2004 Feb.
	Panasonic Electric Works (Thailand) Co., Ltd.	Relay, Home appliance	AJA	AJA 99/1592	1999 Oct.
	PT. Panasonic Shikoku Electronics Batam	HDD fluid bearing motor, Optical disc drive	AJA	AJA02/5622	1999 Nov.
	Panasonic Semiconductor Singapore	Semiconductor	AJA	AJA97/1118	2000 Jul.
	Panasonic Home Appliances (Thailand) Co.,Ltd	Washing machine, Rice cooker, Refrigerator, Electric thermo pot	AJA	AJA98 /1221	1998 Feb.
	Panasonic Electronic Devices Singapore Pte. Ltd.	Surge Absorber, Resistor, SP-CAP, SAW device	AJA	AJA98/1151	1998 Apr.
	Panasonic Electronic Devices (Thailand) Co., Ltd.	Tuner, Speaker, Automotive switch, Metallized film capacitor	SGS	TH08/1765	1998 Jul.
	Panasonic Refrigeration Devices Malaysia Sdn. BHD.	Heat exchanger, Thermostat	AJA	AJA98/1207	1998 Jul.
	Panasonic Electric Works (Khon Kaen) Co., Ltd.	Relay, connector, Switch	LRQA	BCK0403788	2005 Aug.
	Panasonic Electric Works Steel (Thailand) Co.,Ltd.	Conduit tube	SGS	CH99/2182	1999 Dec.
	PT. Panasonic Electric Works Mitra Indonesia	Wiring material, free access floor	TUV	01 104 000465	2000 Apr.
	Panasonic AVC Networks Kuala Lumpur Malaysia Sdn. Bhd.	TV	SIRIM QAS	ER 0102	1997 Jan.
	Panasonic Semiconductor Discrete Devices (M) Sdn. Bhd.	Semiconductor	SIRIM QAS	P07570001	1998 Dec.
	PT. Panasonic Manufacturing Indonesia	Audio equipment, Refrigerator, Air conditioner, Washing machine, Pump	SGS	GB 98/11900	1998 Jan.
	PT. Panasonic Semiconductor Indonesia	Semiconductor	SGS	GB00/18282	2000 Jul.

Environmental Management

Type	Sites	Major Products, Business Fields	Certification Organizations	Certification Number	Date of Registration
Asia/Oceania (Manufacturing)	PT. Panasonic Electric Works Gobel Manufacturing Indonesia	Lighting fixtur, Electronic ballast, Wiring device	SGS	GB03/60117	2000 Jun.
	PT. Panasonic Shikoku Electronics Indonesia	Camcorder, PDP power supply	SGS	GB06/70180	1998 Jun.
	PT. Panasonic Lighting Indonesia	Palook ball, Fluorescent lamp	LRQA	JKT 0403244	1999 Dec.
	Panasonic Communications (Malaysia) Sdn. Bhd.	Fax machine	SIRIM QAS	P05720001	1997 Oct.
	Panasonic HA Air-Conditioning (M) Sdn. Bhd.	Air conditioner	SIRIM QAS	P06860001	1997 Jun.
	Panasonic Refrigeration Devices Malaysia Sdn. BHD.	Compressor, Device	SIRIM QAS	P06910001	1998 May.
	Panasonic Foundry Malaysia Sdn. Bhd.	Precision casting component	SIRIM QAS	P06920001	1998 Jun.
	Panasonic Compressor Malaysia Sdn. Bhd.	Compressor	SIRIM QAS	P07150001	1998 Feb.
	Panasonic Manufacturing Malaysia Bhd. Main Plant	Dry cell battery, Rice cooker, Electric iron, Home shower	SIRIM QAS	P07560001	1998 Nov.
	Panasonic Manufacturing Malaysia Bhd. Shah Alam II Plant	Fan, Vacuum cleaner	SIRIM QAS	P07560002	1996 Dec.
	Panasonic Electronic Devices Malaysia Sdn. Bhd. (2 sites)	Electrolyte condenser, chip resistor	SIRIM QAS	P7190002	1998 Oct.
	Panasonic Communications Philippines Corporation	Digital imaging system, Optical disc drive	SGS	PH08/0229	2002 Jul.
	Panasonic AVC Networks Singapore Pte. Ltd.	PDP, Home theater system	BV	SGPSGP001177	1997 Feb.
	Panasonic Energy (Thailand) Co., Ltd.	Dry battery, Storage battery, Battry appliance	SGS	TH07/2045	1998 Jul.
	Panasonic Automotive Systems Asia Pacific Co.,Ltd.	Car audio	SGS	TH08/1766	1998 Jul.
	Panasonic Motor (Thailand) Co., Ltd.	Motor	SGS	TH08/1768	1998 Jul.
	Panasonic AVC Networks (Thailand) Co., Ltd.	CRT TV, LCD TV	SGS	TH08/1769	1998 Jul.
	Panasonic Ecology Systems (Thailand) Co., Ltd.	Ventilating fan for ASEAN	SGS	TH08/1767	1998 Jul.
	Panasonic Manufacturing philippines Corporation	TV, Refrigerator, Air conditioner, Washing machine, Dry battery	SGS	GB05/65922	1998 May.

Type	Sites	Major Products, Business Fields	Certification Organizations	Certification Number	Date of Registration
China/Northeast Asia (Manufacturing)	Panasonic Taiwan Co., Ltd.	TV, Air conditioner, Refrigerator, Washing machine	LRQA	TWN0771708	1997 Apr.
	Panasonic Energy (Shanghai) Co., Ltd.	Dry battery	CQC	00107E20532R0M/3100	1998 Apr.
	Panasonic Semiconductor (Shanghai) Co.,Ltd.	Semiconductor	BVQI	271754	2004 Dec.
	Panasonic Electric Works Electronic Materials (Guangzhou) Co.,Ltd.	Laminate	BVQI	100655	2001 Nov.
	Beijing Matsushita Color CRT Co., Ltd.	Color TV CRT	CQC	0106E20521R1L/1100	1996 Dec.
	Panasonic Photo&Lighting Taiwan	Fluorescent lamp	BVC	TW07019E	2007 Nov.
	Panasonic Putian Mobile Communications Beijing Co., Ltd.	Mobile phone	LRQA	C982002	1998 Nov.
	Panasonic Electronic Devices (Jianmen) Co., Ltd.	Electronic device capacitor	CCCI	02108E10136R3M	1998 Dec.
	Panasonic Communications (Dalian) Co., Ltd.	Cordless phone, Optical disc drive	CQC	00106E20109R0M/2100	2006 Oct.
	Panasonic Energy (Wuxi) Co., Ltd.	Lithium ion battery, Nickel hydride battery	CQC	00106E2234R0L/3200	2006 Jun.
	Suzhou Sunx Ltd.	Photoelectric sensor, Proximity sensor	CQC	0105E10379R0M/3200	2005 Nov.
	Panasonic Electronic Devices (Beijing) Co., Ltd.	Tuner, Speaker	CQC	00104E20900R0L/1100	1998 May.
	Panasonic AVC Networks Xiamen Co., Ltd.	Digital camera, Radio, Cassette player, Personal headphone stereo	CQC	00108E220441R1L/3502	1997 Dec.
	Panasonic Manufacturing (Xiamen) Co., Ltd.	Electronic component, Monitor, Motor, Car audio equipment	CQC	00108E22136R1L/3502	2005 May.
	Panasonic Motor (Hangzhou) Co., Ltd.	Compact motor for home appliance and air conditioner	CCIC	00109E2010R0L/3300	1999 Jan.
	Panasonic Semiconductor Parts(Suzhou)Co., Ltd.	Hermetic seals, Metal parts	SAC	00308E10132R2M	2003 May.
	Panasonic Wanbao Home Appliances Electric Iron (Guangzhou)Co.,Ltd.	Iron	GZCC	00705E20105R1M	1998 Dec.
	Panasonic Home Appliances Refrigerator (Wuxi) Co., Ltd.	Refrigerator	CQC	0105E20066R0M/3200	1998 Oct.
	Panasonic Communications Zhuhai Co., Ltd.	Cordless phone, Door phone, Photo-printer	CQC	0106E20702R0M/4404	2004 Mar.
	Panasonic Electric Works Ikeda (Shanghai) Co., Ltd.	Lighting device, Breaker	CQC	0106E20709R1M/3100	2004 Mar.
	Panasonic Plasma Disply (Shanghai) Co., Ltd.	TV	CQC	0106E20848R1L/3100	2004 Sep.
	Panasonic Electric Works (Suzhou) Co., Ltd.	Copper clad laminate, Printed wiring board	CCEMS	01-1998-071	1998 Dec.
	Panasonic Storage Battery (Shenyang) Co.,Ltd.	Small sealed lead storage battery	CEPREI	01208E10463R3L	1998 Dec.
	Panasonic Electric Works Wanbao (Guangzhou) Co., Ltd.	Home appliance	CEPREI	01205E10646R2M	1999 Oct.
	Panasonic Semiconductor (Suzhou) Co.,Ltd.	Semiconductor	CEPREI	01206E10055R0M	2006 Jan.
	Panasonic Carbon (Anyang) Co., Ltd.	Dry battery carbon rod	BCC	01608E20243R0M	1999 Feb.
	Panasonic Welding Systems (Tangshan) Co., Ltd.	Welding equipment	CCCI	02105E10123R2M	1998 Nov.
	Multiple-site Certification Group (Panasonic Home Appliances (Hangzhou) Co., Ltd., Panasonic Home Appliances (Hangzhou) (Export Processing Zone)Co., Ltd., Panasonic Home Appliances Rice Cooker (Hangzhou) Co., Ltd.)	Air conditioner compressor	CCCI	02107E10081R3L	1998 Dec.
	Panasonic Electric Works Electric Materials (Suzhou) Co., Ltd.	Laminate	CCCI	02107E10302R3M	1998 Dec.
	Panasonic Home Appliances Microwave Oven (Shanghai) Co., Ltd.	Microwave oven	CCCI	02107E10348R3L	1998 Aug.
Panasonic Electronic Devices (Jianmen) Co., Ltd. (Beijing)	Capacitor	CCCI	U06607E0198R3M	1998 Dec.	

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Type	Sites	Major Products, Business Fields	Certification Organizations	Certification Number	Date of Registration
China/Northeast Asia (Manufacturing)	Panasonic Home Appliances Air-Conditioning (Guangzhou) Co., Ltd.	Air conditioner	CCCI	02107E10411R3L	1998 Aug.
	Panasonic Wanbao Compressor (Guangzhou) Co., Ltd.	compressor	CCCI	02107E10415R3L	1998 Aug.
	Panasonic AVC Networks Shandong Co., Ltd.	TV	CCCI	02108E10029R4M	1998 Nov.
	Panasonic Refrigeration Devices (Wuxi) Co.,Ltd.	Refrigerator compressor	CCCI	02108E10045R3L	1998 Oct.
	Panasonic Ecology Systems Guangdong Co., Ltd.	Ventilating fan, Kitchen-hood, Ceiling fan	CCCI	02108E10266R3L	1998 Sep.
	Panasonic Energy Taiwan Co., Ltd.	Dry battery carbon rod, Gouging carbon, Exterior case for lithium ion battery	TUV NORD	44 104 082349	1998 Jul.
	Panasonic Magnetron (Shanghai) Co.,Ltd.	Magnetron	SQC	04207E20033R2M	1998 Jun.
	Ohms Electronics (Shenzhen) Co., Ltd.	Wiring device, Intercom	SSCC	061-03-E1-0023-R1-M	1998 Dec.
	Panasonic Electric Works (Beijing) Co., Ltd.	Lighting fixture, Wiring device, Home appliance	CEC	05506E10107R2L	2000 Oct.
	Panasonic Electric Works Information Equipment (Shanghai) Co., Ltd.	Switch, Socket, Circuit breaker	LRQA	QAC0002012	2001 Jan.
	Panasonic Electric Works Automation Controls (Beijing) Co., Ltd.	Switching device	CEC	05508E10208R3L	1999 Nov.
	Panasonic Home Appliances Washing Machine (Hangzhou) Co., Ltd.	Washing machine	WIT	15/06E0604R20	2006 Oct.
	Panasonic Ecology Systems Guangdong Co., Ltd. (Beijing)	Air-handing unit, Fan coil unit	CCCI	U06608E01343R3M	1998 Nov.
	Panasonic Electric Works (Electrical Construction Materials) Taiwan Co., Ltd.	Wiring device, Lighting fixture	BSMI	4A6E002-03	1999 May.
	Panasonic System Solutions Suzhou Co., Ltd.	LL system, Security camera	SGS	CH05/0095	1998 Oct.
	Panasonic Electronic Devices (Tianjin) Co., Ltd.	Fixed resistor, Capacitor	SGS	CN08/10207	1999 Jan.
	Panasonic Electric Works (Shanghai) Co., Ltd.	Bath tub, Dressing counter	BSI	EMS69083	2002 Aug.
	Panasonic Automotive Systems Dalian Co., Ltd.	Car audio	CCCI	EJ07-052	1998 Dec.
	Panasonic Motor (Zhuhai) Co., Ltd.	AV/OA motor	SGS	CN08/30318	1998 Oct.
	Panasonic Electric Works Automation Controls (Xiamen) Co., Ltd.	Relay, Socket, Micro switch	CCIC	04005E10387R0M	2005 Feb.
	Panasonic Electric Works Automation Controls (Shanghai) Co., Ltd.	programmable logic controller, Inverter	LRQA	QAC0052015	2001 Jan.
	Panasonic Electric Works Electronic Materials (Shanghai) Co.,Ltd.	Laminate	LQRA	QAC0031028/A	2004 Aug.
	Panasonic Factory Solutions Suzhou Co.,Ltd.	Electronic component mounting and peripherals	LRQA	QAC0051044	2005 Jun.
	Panasonic Electric Works Electronic Materials Taiwan Co., Ltd.	Copper clad laminate, Prepreg	SGS	ETW00061	1998 Dec.
	Panasonic Electronic Devices (Qingdao) Co., Ltd.	Transparent touch panel, Switch	CCCI	U06606E0068R2L	1997 Dec.
	China Hualu Panasonic Avc Networks Co., Ltd.	DVD equipment, LCD projector, Home theater system, Micro-compo	CCCI	U06607E0188R3L	1998 Jun.
Panasonic Energy (Zhuhai) Co., Ltd.	Exterior case for lithium ion battery	CCCI	U06608E0166R3L	1998 Sep.	
Panasonic Lighting (Beijing) Co., Ltd.	Fluorescent lamp	CCCI	02108E10285R2M	2002 Aug.	
Outside Japan (Non-manufacturing)	Panasonic Corporation of North America	Regional headquarters in North America	UL	A8673	2000 Apr.
	Panasonic Electronic Devices (Hong Kong) Co., Ltd.	Sales of electronic components	UL	A7150	1999 Apr.
	Multiple-site Certification Group (Panasonic Asia Pacific Pte. Ltd., Panasonic Industrial Asia Pte. Ltd., Panasonic Trading (S) Pte. Ltd.)	Regional headquarters in Asia	TUV SUD PSB	99-0057	1999 May.
	Panasonic Australia Pty. Ltd.	Sales of home appliances and system products	SGS	AU04/2019	2004 Apr.
	Panasonic (Thailand) Co., Ltd.	Investment and indirect business support	SGS	TH08/1764	1998 Jul.
	Panasonic Siew Sales (Thailand) Co., Ltd.	Sales of AV, system and other products	AJA	AJA99/1542	1999 Sep.
	Panasonic A.P. Sales (Thailand) Co., Ltd.	Sales of electronic and other products	AJA	AJA99/1543	1999 Sep.
	Panasonic New Zealand Ltd.	Sales of home appliances and system products	TELARC SAI LTD	73	2004 Mar.
	Panasonic Electronic Devices Europe GmbH	Sales of electronic components	TUV SUD	12 100/104 28395 TMS	1999 Jan.
	Panasonic Corporation of North America Home Appliance Group	Designing and development of vacuum cleaners	DNV	02193-2005-AE-HOU-ANAB	1999 Feb.
	Panasonic Singapore Laboratories Pte. Ltd.	Research on AV signal processing	TUV SUD PSB	99-0052	1999 Mar.
	Panasonic HA Air-Conditioning R&D (M) Sdn. Bhd.	Design and development of air conditioners	SIRIM QAS	P06900001	1998 Oct.
	Panasonic Ecology Systems Hong Kong Co., Ltd.	Marketing and IPO for the overseas operation of PES Group	UL	A7069	1999 Mar.
	PT. Panasonic Gobel Indonesia	Sales of home appliances and other products	LRQA	JKT 0500203	2004 May.
	Panasonic Malaysia Sdn. Bhd.	Sales of home appliances and system products	SIRIM QAS	P06400001	2003 Dec.
	Panasonic Vietnam Co., Ltd.	Regional headquarters in Vietnam	BVC	230785	2008 May.

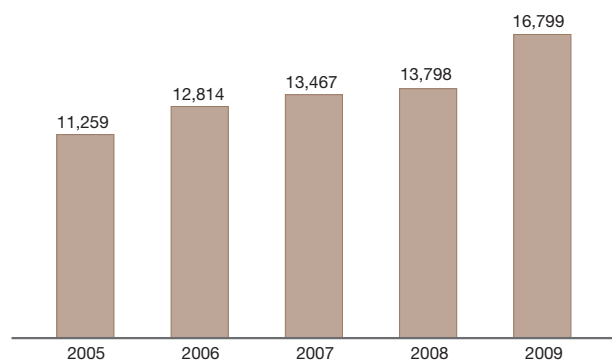
Environmental Management

Environmental Accounting

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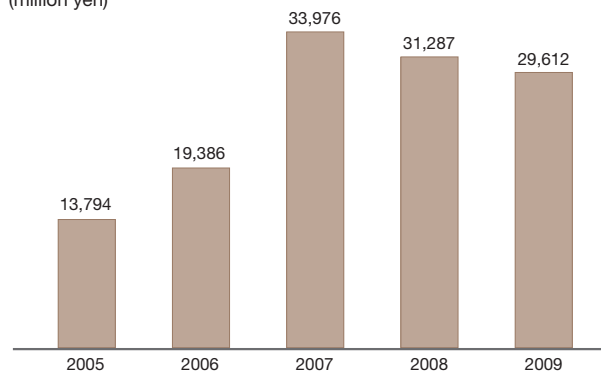
Trend in investment

(million yen)



Trend in economic benefit

(million yen)



Environmental accounting

Accounting period: From April 2008 to March 2009

Companies covered: Panasonic Corporation and its affiliated companies inside and outside Japan

(units: Million yens)

	Classification by the Ministry of the Environment of Japan	Investments ^{*1}	Expenses ^{*1,2}	Economic benefit
For Products	R&D cost	1,198	12,356	—
For Manufacturing	Global environmental conservation costs	8,590	3,798	7,841
	Pollution prevention costs	4,569	5,584	—
	Resource circulation costs	880	5,215	18,999
	Upstream and downstream costs	1,130	6,522	2,706
	Administration costs	97	9,453	—
	Environmental remediation costs	335	4,002	—
For Everybody, Everywhere	Social activity costs	—	215	—
Total		16,799	47,146	29,546

Environmental conservation benefits (in physical terms)

	Categories	Emission reduction	Reference indicator: environmental impact	
		Fiscal 2009	Fiscal 2008	Fiscal 2009
For Products	CO ₂ emissions	—	—	78.00 million tons
For Manufacturing	CO ₂ emissions from production activities	500,000 tons	3.97 million tons	3.47 million tons
	GHG emissions (other than CO ₂) ^{*3}	100,000 tons	300,000 tons	200,000 tons
	Release and transfer of Key Reduction-target Chemical Substances	700 tons	4,700 tons	4,100 tons
	Final disposal of waste	12,900 tons	31,500 tons	18,600 tons
	Water consumption	6 million m ³	59 million m ³	53 million m ³
	CO ₂ emissions from transportation activities	170,000 tons	1.05 million tons	880,000 tons

*1 When an entire amount of investment and expenses cannot be regarded as environmental conservation costs alone, the difference or appropriate portions (divided proportionally) are calculated.

*2 Expenses include a cost of capital investment depreciation.

*3 GWP ton-CO₂ (GWP: Global Warming Potential).

History of Environmental Activities

(As of March 31, 2009)

Era	Panasonic Group	World	Japan
1970s			1967 •Basic Law for Environmental Pollution Control enacted
	1970 •Pollution Survey Committee established		1968 •Air Pollution Control Law enacted
			1970 •Water Pollution Control Law enacted •Waste Disposal and Public Cleansing Law enacted
	1972 •Environmental Management Office established	1972 •U.N. Conference on Human Environment held in Stockholm (Declaration of Human Environment adopted)	1971 •Environment Agency established
		1973 •First oil shock occurred	
	1975 •Environmental Management Regulations enacted		
		1979 •Second oil shock occurred	1979 •Energy Conservation Law enacted
1980s		1985 •Vienna Convention for the Protection of the Ozone Layer adopted	
		1987 •Montreal Protocol on Substances that Deplete the Ozone Layer adopted •World Commission on Environment and Development (the Brundtland Commission) advocated the concept of sustainable development	
	1988 •CFC-reduction Committee established		1988 •Ozone Layer Protection Law enacted
	1989 •Environmental Protection Promotion Office established		
	1991 •Matsushita Environmental Charter (Environmental Statement and Code of Conduct) enacted •Matsushita Product Assessment adopted and implemented		1991 •Keidanren Global Environment Charter enacted by Japan Federation of Economic Organizations •Law for Promotion of Effective Utilization of Resources enacted
1992 •Environmental Policy Committee established	1992 •The Earth Summit held in Rio de Janeiro, Brazil; Agenda21 and Rio Declaration on Environment and Development adopted •United Nations Framework Convention on Climate Change adopted		
1993 •Matsushita Environmental Voluntary Plan (Year 2000 targets) adopted •Matsushita Group's global environmental internal audits launched		1993 •The Basic Environment Law enacted	
1995 •Acquired Environmental Management System Certification at AV Kadoma Site (first in the Matsushita Group)	1995 •First Conference of Parties to the U.N. Framework Convention on Climate Change (COP1) held in Berlin	1995 •Containers and Packaging Recycling Law enacted	
	1996 •ISO 14001 International Standard on Environmental Management Systems launched		
1997 •Corporate Environmental Affairs Division (CEAD) established •Environmental Conference established (held semi-annually)	1997 •COP3 held in Kyoto and adopted the Kyoto Protocol	1997 •Keidanren Appeal on the Environment announced by Japan Federation of Economic Organization	
1998 •Love the Earth Citizens' Campaign commenced •Recycling Business Promotion Office established •First environmental report (1997) published		1998 •Home Appliance Recycling Law enacted (took effect in 2001) •Law Concerning the Promotion of the Measures to Cope with Global Warming enacted •Energy Conservation Law revised: Top Runner Approach introduced	
1999 •Green Procurement launched •Chemical Substances Management Rank Guidelines established •Acquired ISO14001 Certification in all manufacturing business units		1999 •PRTR (Pollutant Release and Transfer Register) Law enacted	
2000 •Lead-free Solder Project commenced •Held first environmental exhibition for general public in Osaka	2000 •Global Reporting Initiative (GRI) issued The Sustainability Reporting Guidelines	2000 •Basic Law for Establishing the Recycling-based Society enacted •Law for Promotion of Effective Utilization of Resources enacted	
2001 •Environmental Vision and Green Plan 2010 adopted •Held Environmental Forum in Tokyo and Freiburg, Germany •Matsushita Eco Technology Center launched	2001 •Reached final agreement on the actual rules of Kyoto Protocol in COP7 held in Marrakesh	2001 •Reorganized into the Ministry of the Environment •Law Concerning Special Measures against PCBs enacted	
2002 •Panasonic Center Tokyo opened	2002 •Johannesburg Summit (Rio+10) held	2002 •Kyoto Protocol ratified •Vehicle Recycling Law enacted •Law for Countermeasures against Soil Pollution enacted	
2003 •Declared 'Coexistence with the Global Environment' as one of the twin business visions •Factor X advocated as an indicator for Creating Value for a New Lifestyle •Completely introduced lead-free soldering globally •Super GP Accreditation System launched •Achieved zero waste emissions in Japanese manufacturing business sites (ongoing program) •Held Environmental Forum in Tokyo	2003 •EU's WEEE Directive was promulgated		
2004 •Environmental Vision and Green Plan 2010 revised •PCB Management Office established •Superior GP Accreditation System launched		2004 •Prohibited manufacturing and use of products containing asbestos in principle	
2005 •Participated in Expo 2005 Aichi, Japan as an official sponsor •Green Plan 2010 revised •Continued with the nationwide Lights-out Campaign •3R Eco Project launched •Completed the elimination of specified substances (6 substances)in products •Matsushita Group's Green Logistics Policy established •CF Accreditation System introduced •Eco & Ud HOUSE opened •Installed the first commercial household fuel cell cogeneration system in the new official residence of the Japanese Prime Minister •Won the first place in Nikkei Environmental Management Survey	2005 •Kyoto Protocol entered into force	2005 •Expo 2005 Aichi, Japan held •National campaign against global warming "Team -6%" launched •Marking for the presence of the specified chemical substances for electrical and electronic equipment (J-Moss) established	
2006 •Environmental specialist position established •ET Manifest introduced into all Panasonic's manufacturing sites in Japan •Expanded the scope of CF Accreditation System globally •Realized lead-free plasma display panels and introduced them to the market •Full-fledge introduction of biodiesel fuel in logistics	2006 •Restriction of Hazardous Substances (RoHS) Directive took effect in EU	2006 •Relief Law for Asbestos Victims enacted •Energy Conservation Law revised: new cargo owner obligations, widened product scope of its application, and top runner standard revision	
2007 •Energy conservation activities at our factories in Malaysia approved as CDM project by the U.N. •A new environmental mark introduced •Panasonic Center Beijing opened •Environmentak Forum in China held •"Declaration of Becoming an Environmentally Contributing Company in China" announced •Panasonic 'eco ideas' Strategy announced	2007 •The Fourth Assessment Report of the Intergovernment Panel on Climate Change (IPCC) released •Registration, Evaluation, Authorisation and Restriction of Chemicals entered into force in EU •Framework for CO ₂ reduction agreed at Heiligendamm Summit (G8) •The Bali Road Map for the post Kyoto Protocol agreed at COP13 •Administration on the Control of Pollution Caused by Electronic Information Products (China RoHS) came into effect		
2008 •Established the Corporate CO ₂ Reduction Promoting Committee •Held environmental exhibitions, 'eco ideas' World at seven venues in 6 cities in Japan •Home Appliances Company announced environmental statement in which named its kusatsu site as 'eco ideas' Factory •Announced 'eco ideas' Declaration in Europe •Implemented Panasonic Eco Relay in 39 countries and regions •Established Environmental Strategy Research Center	2008 •G20 (conference of key countries' environmental and energy ministers) held •G8 Hokkaido Toyako Summit held	2008 •Japan's Voluntary Emission Trading Scheme started	
2009 •Opened 'eco ideas' House	2009 •China WEEE law promulgated	2009 •Energy Conservation Law amended: Covered area expanded from factories to commercial sector facilities	

Standards for Calculating Environmental Performance Indicators

■ Reporting period

April 1, 2008 - March 31, 2009

■ Scope of this report

'eco ideas' for Products: All products developed during the reporting period

'eco ideas' for Manufacturing: Global manufacturing sites that have established environmental management systems

'eco ideas' for Everybody, Everywhere: A scope varies depending on each initiative

■ Calculation standard

Item	Indicator	Calculation method
'eco ideas' for Products		
Green Products (GP)	Number of models with No.1 energy-efficiency performance	A No.1 energy-efficiency model is defined as those with industry-leading performance regarding energy-efficiency (an amount of annual power consumption, etc.) as of release dates. The indicator stands for a number of such models. Outside Japan, models which have obtained a top-class label in energy-efficiency labeling systems are regarded as No.1 energy-efficiency models because it is difficult to collect information about competitors' products in some countries and regions.
	Number of Superior GPs	The indicator stands for a number of models with industry-leading environmental performance (Superior GPs). The environmental performance mentioned above mainly covers energy-efficiency performance, resource-saving performance and management of chemical substances, and models with No.1 energy-efficiency are also regarded as Superior GPs in an energy-efficiency category.
	Breakdown of energy-efficient models	The indicator stands for rates of our models which are ranked in No.1, top 30% and bottom 30% (models not covered are categorized in a mid-rank) in each product category, respectively based on The Energy-saving Performance Catalog published by the Energy Conservation Center, Japan.
'eco ideas' for Manufacturing		
Factory Energy Conservation	Emission amount of CO ₂ with the use of fuel	Make calculations in accordance with the Guidelines for Calculating Greenhouse Gas Emissions (Ver.2.2) published by the Ministry of the Environment and Ministry of Economy, Trade and Industry, Japan
	CO ₂ emission coefficient for the purchased electricity	[Japan] CO ₂ emissions per basic unit for power sources at the receiving end, listed in the Environmental Action Plan of the Electric Industry issued by the Federation of Electric Power Companies of Japan. CO ₂ emissions factors of purchased electricity in Japan used for individual fiscal years are: 0.425kgCO ₂ /kWh (fiscal 2007) and 0.410kgCO ₂ /kWh (after fiscal 2008) due to the difference of time between public announcement of CO ₂ emissions factors and Panasonic's formulation of the reduction plan. [Outside Japan] Numerical values for respective countries listed on the Calculation Tools in GHG Protocol website by World Business Council for Sustainable Development (WBCSD) and World Resource Institute (WRI). Levels for 2002 (Electricity-Heat Steam Purchase_tool1.0_final) has been used for all years.
	CO ₂ emissions per basic unit	[Japan] CO ₂ emissions / (nominal production / corporate goods price index *) [Global] CO ₂ emissions / (consolidated sales / corporate goods price index *)
	Emission amount of greenhouse gases other than CO ₂	Convert emission amounts of each gas into CO ₂ emission amount using the Global Warming Potentials listed in the secondary evaluation report (1995) of the Intergovernmental Panel on Climate Change (IPCC).
Chemical Substance Management at Factories	Affected chemical substances	Chemical substances specified in Chemical substances management ranking guideline Ver.3.1 (including Type 1 and Type 2 chemical substances specified in the Law Concerning Reporting, etc. of Releases to the Environment of Specific Chemical Substances and Promoting Improvements in Their Management (PRTR [Pollutant Release and Transfer Register] Law)
	Emission amount	Emission amount includes emissions to the atmosphere, public waters, and soil.
	Transfer amount	An amount of substances transferred as wastes (not including those recycled free of charge or with any payment under the Waste Management Law), as well as those discharged into the sewage system.
	Removal treatment amount	An amount of substances converted into other substances through neutralization, decomposition or other chemical treatment.
	Recycled amount	An amount of substances recycled with revenue, as well as those recycled free of charge or with any payment under the Waste Management Law (Transferred amounts differ from those reported under the PRTR Law).
Reducing Waste from Factories	Generated amount	Total amount of industrial waste, general waste and valuable items
	Valuable item	Waste that can be sold to recycling companies or disposal companies for revenues
	Basic unit	Generated amount of waste and valuable item / (consolidated sales / corporate goods price index *)
	Recycling rate	Recycled amount / (recycled amount + final disposal amount) (The recycled amount includes thermal recycling. Incinerated residue is included in the final disposal amount.)
Effective Use of Water Resources	Water usage amount	Total water usage used in production (total usage amount of tap water, industrial water, river and lake water, and groundwater)
	Basic unit	Water usage amount / (consolidated sales / corporate goods price index *)
Management of Factory Environment	NO _x emission amount	Total weight of nitrogen oxide emitted from smoke-generating facilities regulated by the Air Pollution Control Law (similar facilities outside Japan), which is calculated for NO ₂
	SO _x emission amount	Total weight of sulfur oxide emitted from smoke-generating facilities regulated by the Air Pollution Control Law (similar facility outside Japan), which is calculated for SO ₂
	COD pollution load	Total weight of the chemical oxygen demand of waste water discharged from a business unit, which is regulated by law, ordinance or agreement, to public waters
	Nitrogen pollution load	Total weight of nitrogen in nitrogen oxide of waste water discharged from a business unit, which is regulated by law, ordinance or agreement, to public waters
	Phosphorous pollution load	Total weight of phosphorous in phosphorus compound of waste water discharged from a business unit, which is regulated by law, ordinance or agreement, to public waters
Green Logistics	Energy consumption	Energy Conservation Law Guide book for consignors concerning the rational use of energy published by the Agency for Natural Resources and Energy (Scope: transportation during which cargo is owned by the Panasonic Group)
	CO ₂ emissions	Based on the energy consumption and other data calculated in the process specified above, make calculations in accordance with the Guidelines for Calculating Greenhouse Gas Emissions (Ver.2.2) published by the Ministry of the Environment and Ministry of Economy, Trade and Industry, Japan
	CO ₂ emissions per basic unit	CO ₂ emissions / weight of products (components) transported
Product Recycling	Recycling rate	The rate is defined in the Law for Recycling of Specified Kinds of Home Appliances and calculated as follows: Weight of materials and components that can be either sold or provided free of charge / Weight of products collected for recycling
	Amount collected in Europe	Calculated by multiplying sum of weight of collected products by collection system by Panasonic share (in collection system) of product weight put on the market.
	Amount collected in USA	Weight collected according to state laws and through voluntary measures
'eco ideas' for Everybody, Everywhere		
Promotion of the LE Campaign	Ratios of LE families	Number of employees in a scope of organizations who participated in any of the following five key LE initiatives / Total number of employees in a scope of organizations Five key LE initiatives: Household eco-account book initiative, plastic shopping bag reduction campaign, environmental volunteer activities, 'Eco Challenge :Select Energy Efficient Products' and car-free day A scope of organizations: Panasonic Corporation, companies that have similar labor agreements and participate in the LE Campaign, PanaHome and other companies that participate in the Campaign

* Corporate goods price index

Corporate price index adjusted based on the average corporate goods price index (electrical and electronic equipment) published by the Bank of Japan for the period from April 2008 to March 2009. The base years are: 1990 for CO₂ emissions per basic unit in Japan and 2000 for global CO₂ emissions per basic unit, waste and valuable resource generation and water usage per basic unit.