

Environmental Action Plan

Environmental Action Plan (Targets and Performance)

Casio sets environmental targets and undertakes environmental initiatives for each fiscal year, based on a detailed Environmental Management Policy which takes into account the latest global trends.

Environmental Vision for the realization of a sustainable society

Casio's approach to environmental management is based on its Environmental Vision for the realization of a sustainable society and its Environmental Management

Policy. Please see pages 31-32, "Environmental Vision," for more information on the Environmental Vision and the Environmental Management Policy.

Fiscal 2012 Casio Environmental Action Plan

Product Targets

1. Development target for eco-products
Increase Casio Green Star product sales to **30%** of total sales by FY2013.

Plant and Business-site Targets

1. Medium- and long-term targets for greenhouse gas emissions reduction

Medium-term target

To reduce the total volume of global greenhouse gas emissions from business activities by **30%** compared to fiscal 2006, by fiscal 2021

Long-term target

To reduce the total volume of global greenhouse gas emissions from business activities by **80%** compared to fiscal 2006, by fiscal 2051.

* Business activities: This indicates activities of production sites and offices in Japan and overseas, and does not include CO₂ emissions from logistics, product usage, or employee travel.

2. Energy conservation targets (electrical power, fuel etc.)

Japan production sites

Reduce CO₂ emissions per unit of actual production by **35%**, averaged over 5 years from FY2009 to 2013 (compared to FY 1991).

* Actual production is calculated by adjusting the production output by the Bank of Japan Domestic Corporate Goods Price Index for electronic products, based on the policies of the four main electrical and electronics industry associations in Japan

Japan office sites

Reduce CO₂ emissions per unit by **9%**, averaged over 5 years from FY2009 to 2013 (compared to FY 1991).

Production sites outside Japan

Reduce CO₂ emissions per unit of production by **30%** by FY2013 (compared to FY 2005).

Office sites outside Japan

Reduce CO₂ emissions per unit by **3%** by FY2013 (compared to FY 2005).

3. Reduction target for greenhouse gases other than CO₂

Reduce total emissions of greenhouse gases other than CO₂ (CO₂ equivalent) to below fiscal 2001 level by fiscal 2013.

- Reduce HFC-134a emissions

* Replace HFC-134a used in machinery such as dust blowers, with products that use chemical substances that have a lower global warming factor

4. Resource conservation targets (water, paper)

Japan production sites

Reduce water usage per unit of actual production by **25%** by fiscal 2013 compared to fiscal 2001.

Production sites outside Japan

Reduce water usage per unit of production by **15%** by fiscal 2013 compared to fiscal 2005.

Japan sites

Reduce paper usage in offices per unit of sales by **10%** by fiscal 2013 compared to fiscal 2008.

5. Waste reduction targets

Japan sites

Reduce generation of waste per unit of actual sales by **50%** by fiscal 2013 compared to fiscal 2001.

Production sites outside Japan

Reduce generation of waste per unit of sales by **30%** by fiscal 2013 compared to fiscal 2005.

6. Volatile organic compound (VOC) reduction target

Japan production sites

Reduce emissions of VOCs by **30%** by fiscal 2011 compared to fiscal 2001.

* 20 types of VOCs are specified by the four main electrical and electronics industry associations in Japan. Among them, Casio uses 8 types.

7. Hazardous substance phase-out target

Detoxify PCB-containing equipment now in storage as Japan Environmental Safety Corporation (JESCO) starts program in each region.

- Kofu Casio Co., Ltd: By fiscal 2015

* Store stabilizers, including the low concentration capacitors kept at Hachioji R&D Center, until they can be accepted by JESCO.

8. Target for output reduction of PRTR substances

Japan production sites

Reduce output of PRTR substances per unit of actual production by **40%** by fiscal 2013 compared to fiscal 2004.

9. Green procurement target

Achieve **100%***1 green parts*2 procurement rate (all supplied parts are green parts) by fiscal 2012.

*1 Excluding those substances that are within legal limits, if customer request

*2 Green parts: Parts and materials that do not contain prohibited substances as designated by Casio

10. Green purchasing target

Raise the green purchasing ratio at Japan sites to **75%** of total purchases (based on the number of purchases) by fiscal 2013.

* Applicable to sites using the CATS e-P system

11. Logistics target for the fight against climate change

Achieve by 2012 a **22%** reduction in CO₂ emissions* from logistics in Japan per unit of sales, compared to fiscal 2006

* Scope covers processes relating to product sales, not including processes relating to materials procurement and recycling

Overall business activity targets

1. Biodiversity preservation target

To preserve biodiversity and eco-system services, conduct biodiversity impact surveys in all business areas by fiscal 2012, and establish a policy theme

Fiscal 2011 Casio Environmental Action Plan Performance

Fiscal 2011 Casio Environmental Action Plan Performance

Progress assessment key	Performance
① Target was achieved and a new, higher target was established.	☆☆☆☆
② Target was achieved.	☆☆☆☆
③ Target not achieved, but steady improvement made over previous fiscal year.	☆☆☆
④ Making progress toward achieving target and expect results next fiscal year and beyond.	☆☆
⑤ Same as or worse than base value.	☆
	▲

	Theme	Target	Per-unit value of base year, etc.	Target per-unit value of target year, etc.	Actual performance of per-unit value for FY2011, etc.	Performance by the end of FY2011	Progress assessment
Product targets							
1. Eco-products	Raise share of Green Star Product sales in total sales.	Increase Green Star Product sales to 30% of total sales by FY2013. Maintain Green Product sales at 80% of total sales or more.	—	30% [80% or more]	15.8% [83%]	14.2 percentage points remaining to reach target. Exceeded target by 3 percentage points	☆☆☆
Plant and business-site targets							
					Upper level: FY2011 Lower level: FY2010	Upper level: Compared with base year Lower level: (Compared with previous year)	
1. Reduction of greenhouse gas emissions over the medium and long term	Reduce greenhouse gas emissions over the medium term.	Reduce the total volume of global greenhouse gas emissions from business activities by 30% by fiscal 2021 compared to fiscal 2006.	132,213	92,549	54,217	Reduced by 59.0%	☆
			(Tons-CO ₂)	(Tons-CO ₂)	(Tons-CO ₂)	99,029 (Reduced by 45.3%)	
	Reduce greenhouse gas emissions over the long term.	Reduce the total volume of global greenhouse gas emissions from business activities by 80% by fiscal 2051 compared to fiscal 2006.	132,213	26,443	54,217	Reduced by 59.0%	☆
			(Tons-CO ₂)	(Tons-CO ₂)	(Tons-CO ₂)	99,029 (Reduced by 45.3%)	
2. Energy conservation (electrical power, fuel, etc.)	Reduce CO ₂ emissions (Japan production sites)	Reduce emissions per unit of actual production by 35%, averaged over 5 years from FY2009 to 2013, compared with FY1991.	0.312	0.203	0.185 *1	Reduced by 40.7%	☆☆☆
			(Tons-CO ₂ /¥ million)	(Tons-CO ₂ /¥ million)	(Tons-CO ₂ /¥ million)	0.211 *2 (Reduced by 12.1%)	
	Reduce CO ₂ emissions (Japan office sites)	Reduce total emissions by 9%, averaged over 5 years from FY2009 to 2013, compared with FY1991.	11,492	10,458	8,533 *1	Reduced by 25.8%	☆☆☆
			(Tons-CO ₂)	(Tons-CO ₂)	(Tons-CO ₂)	9,533 *2 (Reduced by 10.5%)	
Reduce CO ₂ emissions (production sites outside Japan)	Reduce emissions per unit of production by 30% by FY2013 compared to FY2005.	0.235	0.165	0.206	Reduced by 12.3%	☆☆	
		(Tons-CO ₂ /¥ million)	(Tons-CO ₂ /¥ million)	(Tons-CO ₂ /¥ million)	0.265 (Reduced by 22.3%)		
Reduce CO ₂ emissions (office sites outside Japan)	Reduce total emissions by 3% by FY2013 compared to FY2005.	5,099	4,946	7,496	Increased by 47.0%	▲	
		(Tons-CO ₂)	(Tons-CO ₂)	(Tons-CO ₂)	7,362 (Increased by 1.8%)		
3. Reduction of greenhouse gases	Reduce total emissions of greenhouse gases other than CO ₂ (CO ₂ equivalent) to below 2000 level.	Reduce total emissions to below 2000 level by 2010.	7,278	7,278	3,007	Reduced by 58.7%	☆☆☆☆
			(Tons-CO ₂)	(Tons-CO ₂) or below	(Tons-CO ₂)	11,355 (Reduced by 73.5%)	
4. Resource conservation (water, paper)	Reduce water usage (Japan production sites)	Reduce usage per unit of actual production by 25% by FY2013 compared to FY2001.	0.0077	0.0058	0.0045	Reduced by 41.6%	☆☆☆
			(Thousand m ³ /¥ million)	(Thousand m ³ /¥ million)	(Thousand m ³ /¥ million)	0.0089 (Reduced by 49.4%)	
	Reduce water usage (production sites outside Japan)	Reduce usage per unit of production by 15% by FY2013 compared to FY2005.	0.0039	0.0033	0.0045	Increased by 14.9%	▲
			(Thousand m ³ /¥ million)	(Thousand m ³ /¥ million)	(Thousand m ³ /¥ million)	0.0032 (Increased by 40.1%)	
Reduce office paper usage (Japan sites)	Reduce usage per unit of sales by 10% by FY2013 compared to FY2008.	0.00035	0.00032	0.00047	Increased by 32.9%	▲	
		(Tons/¥ million)	(Tons/¥ million)	(Tons/¥ million)	0.00041 (Increased by 13.5%)		
5. Waste reduction	Reduce generation of waste (Japan sites)	Reduce waste per unit of actual production by 50% by FY2013 compared to FY2001.	0.024	0.012	0.0136	Reduced by 43.2%	☆☆
			(Tons/¥ million)	(Tons/¥ million)	(Tons/¥ million)	0.0195 (Reduced by 30.1%)	
	Reduce generation of waste (production sites outside Japan)	Reduce waste per unit of production by 30% by FY2013 compared to FY2005.	0.012	0.008	0.0083	Reduced by 31.0%	☆☆☆
			(Tons/¥ million)	(Tons/¥ million)	(Tons/¥ million)	0.0106 (Reduced by 21.9%)	
6. Reduction of volatile organic compounds (VOCs)	Reduce emissions of VOCs to atmosphere (Japan production site)	Reduce emissions by 30% by FY2011 compared to FY2001.	47	33	21	Reduced by 54.7%	☆☆☆☆
			tons	tons	tons	32 (Reduced by 33.5%)	
7. Hazardous substance phase-out	Detoxify PCB-containing equipment now in storage as Japan Environmental Safety Corporation starts	Detoxify all PCBs stored at Kofu Casio by FY2015.	—	—	Finished delivering this equipment to JESCO. Continuing to store equipment until it can be accepted for treatment.	—	—
8. Output reduction of PRTR substances	Reduce output of PRTR substances (Japan production sites)	Reduce output per unit of actual production by 40% by FY2013 compared to FY2004.	0.00011	0.00007	0.00003	Reduced by 71.1%	☆☆☆
			(Tons/¥ million)	(Tons/¥ million)	(Tons/¥ million)	0.00005 (Reduced by 36.4%)	
9. Green procurement	Improve the green procurement ratio.	Achieve green part procurement ratio (ratio of green parts*4 to all parts and materials ordered) at sites in and outside Japan of 100%.*5	—	FY2011: 100%	In Japan: 100% Outside Japan: 100%	—	☆☆☆
10. Green purchasing	Raise green purchasing ratio of office supplies and office equipment (Japan sites)	Raise the ratio to 75% of total purchases by FY2012 (based on the number of purchases)	—	75%	62.8%	—	☆
11. Logistics-related global warming countermeasures	Reduce CO ₂ emissions*3 (distribution in Japan)	Reduce emissions per unit of sales in Japan by 22% by FY2013 compared to FY2006.	—	Reduce 22% by FY2013	75.2% compared to FY2006	Reduced by 24.8%	☆☆☆
Overall business activity targets							
1. Biodiversity preservation target	Preserve biodiversity and ecosystem services	Conduct biodiversity impact surveys in all business areas by 2012, and establish a policy theme.	—	—	—	Established the Casio Group Biodiversity Guidelines.	☆

*1 Average value for FY2009 to FY2011.

*2 Average value for FY2009 and FY2010.

*3 The scope of target for logistics-related global warming countermeasures is distribution for product sales.