

Environmental Action Plan and Performance

Murata has formulated its strategy for reducing its impact on the environment in stages in its 4th Environmental Action Plan, with 2010 as the target year.

The Group carries out annual action plans to facilitate achievement of the 2010 goals.

Performance for Fiscal 2007

Attained 28 of 30 Targets

In fiscal 2007, we expanded our goals to include international locations as well as our domestic sites. We also increased the number of objectives by 10 from fiscal 2006 to 30 items.

The result of that strategy was progress as planned, although we have not yet reached our targets for overseas waste recycling rate improvements or for domestic plant VOC atmospheric emission reductions.

We succeeded in reducing VOC atmospheric emissions 1.2% compared with the previous year by revising and improving process conditions; however, with the rapid expansion in production volume, we were unable to reach our goal of a maximum of fiscal 2000 levels. We plan to continue with emission reductions by implementing new practices in fiscal 2008.

Production expansion at some of our main overseas plants led to an increased volume of difficult-to-recycle waste emissions. We therefore did not reach our goal of a minimum of a 70% recycling rate. We plan to intensify efforts by building on our success at domestic plants to meet our goals in fiscal 2008.

Future Targets and Plans

Introduction of the Eco-Factory System and Other New Goals

The Group is continuing to work toward achieving the goals of the 4th Environmental Action Plan in fiscal 2010. In fiscal 2008, we began efforts on new objectives, such as the implementation of the eco-factory system and Murata Forest Conservation activities.

In addition, we are already actively addressing reductions in CO_2 emissions and other issues taking center stage in the coming years, with a view to fiscal 2010 and beyond.

4th Environmental Action Plan: Targets and Results for Fiscal 2007 and Plans for Fiscal 2008

and Plans for Fiscal 2008					
Item		Targets for FY2007			
Environmental Management	Enhance environmental management system (EMS)	①Complete EMS integration in Japan			
		②Hold environmental management officer meetings in Japan, China and ASEAN countries (To be held regularly thereafter)			
		©Commence operation of environmental cost management systems overseas			
Supplying environmentally friendly products	Environmentally conscious design	①Continue product assessments			
		② Investigate methods to compile LCA data efficiently from each site's environmental data			
	Reducing use of environmentally hazardous substances in products	 Revise list of RoHS exemptions → Clarify reductions and full phaseouts and set targets 			
		② Polyvinyl chloride (PVC) → Establish investigative subcommittee to study countermeasures (Clarify substances to be reduced/Establish priorities for evaluations of alternatives)			
		③ Brominated flame retardant →Establish investigative subcommittee to study countermeasures (Clarify substances to be reduced and set targets)			
	Managing information related to environmentally hazardous chemical substances	Develop product database (for ASC/modules)			
	Reducing use of packaging materials and conserving	Reduce amount of taped packaging used for chip monolithic ceramic capacitors and chip ferrite beads per unit of production amount at domestic sites by at least 42% relative to FY2000			
		②Reduce CO ₂ emissions from distribution per unit of net production in Japan by at least 30% relative to FY2000			
	Green procurement	Continue to promote greenness surveys for compliance with legal regulations in Japan and overseas, and maintain a green procurement ratio of 100% for production materials			
	Global warming prevention Conserve resources and "Reduce, Reuse, Recycle" waste	①Reduce CO₂ emissions per unit of net production № in Japan by at least 23.5% relative to FY1990			
Eco-Friendly Business Activities		② Assess the status of CO ₂ emissions at overseas manufacturing plants			
		③ Convert 55% of the domestic Company fleet to low-pollution vehicles			
		Reduce total waste emissions per unit of net production in Japan by at least 40% relative to FY2000			
		② Assess the status of waste generation at overseas manufacturing plants			
		Clarify definition of "zero emissions" at overseas manufacturing plants and attain a waste recycling rate of at least 70% using this definition			
		Reduce water consumption per unit of net production in Japan by at least 40% relative to FY2000			
	Managing and reducing environmentally hazardous chemical	Reduce atmospheric emissions of VOCs in Japan to a maximum of FY2000 levels			
		Reduce atmospheric emissions of PFCs in Japan by at least 38% relative to FY2002			
	substances used in production processes	Investigate reductions of PRTR-designated substance emissions (Establish reduction targets for FY2010)			
	Risk management	① Continue remediation of soil and groundwater pollution building on past experiences and maintain a system with minimal environmental risk			
		Reduce soil pollution and other environmental risks when conducting work that involves landscaping			
	Environmental communications	① Continue to issue annual and site-specific CSR reports ② Hold environmental roundtable discussions (tentative name) with local university students			
Social activities	Community / social contribution activities	① Inaugurate a Murata Park (tentative name) Preparation Committee and determine scope			
		© Continue implementing environmental education programs for elementary and junior high school children, participating in environmental fairs and other related events and regional cleaning activities, and supporting NPO/NGOs			
		Continue developments under the Mid-Term Green Plan Gain SEGES certification (Yokaichi Technical Center and			
		Yasu and Yokaichi Plants)			

About Comparisons per Unit of Net Production

The emissions ratio is a value that indicates the amount of environmental impact emitted in the process of producing a given product quantity (monetary value). This monetary value is calculated by adjusting net production for deflation using the domestic corporate goods price index (for electronic components and devices) announced by the Bank of Japan.



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Conducted soil surveys at relevant construction sites and processed them appropriately Issued 2007 annual CSR and site-specific CSR reports Held environmental roundtable discussions with local university students We signed agreements with related sites (Kyoto Model Forest Association, Kameoka City, Kyoto Prefecture) and land use right memorandums with local land owners as part of our forest conservation activities when services to investigate forest maintenance methods and developed an action plan for forest conservation activities to begin in FY2008. Murata Group held 56 environmental education programs for elementary and junior high school children (3,550 persons) and continued to participate in regional environmental events and to support NPO/NGOs. maintain a system with minimal environmental risks when conducting we landscaping Yes • Continue to issue annual and site-specific CSR reports • Continue to hold environmental roundtable discussions with local univers to continue to hold environmental roundtable discussions with local univers to continue to hold environmental roundtable discussions with local univers to continue to hold environmental roundtable discussions with local univers to continue to hold environmental roundtable discussions with local univers to continue to hold environmental roundtable discussions with local univers to continue to hold environmental roundtable discussions with local univers to continue to hold environmental roundtable discussions with local univers to continue to hold environmental roundtable discussions with local univers to continue to hold environmental roundtable discussions with local univers to continue to hold environmental roundtable discussions with local univers to continue to hold environmental roundtable discussions with local univers to continue to hold environmental roundtable discussions with local univers to continue to hold environmental roundtable discussions with local univers to continue to hold environmental roundtable discussions with local uni	of these substances used at Murata are also VOCs. We therefore decided to continue	Yes	Reduce atmospheric emissions of PFCs in Japan by at least 45% relative to FY2002	
Issued 2007 annual CSR and site-specific CSR reports Yes	Remediation projects implemented at relevant plants and progressing as planned	Yes	Reduce soil pollution and other environmental risks when conducting work that involves	
Held environmental roundtable discussions with local university students We signed agreements with related sites (Kyoto Model Forest Association, Kameoka City, Kyoto Prefecture) and land use right memorandums with local land owners as part of our forest conservation activities. We also worked with experts to investigate forest maintenance methods and developed an action plan for forest conservation activities to begin in FY2008. Murata Group held 56 environmental education programs for elementary and junior high school children (3,550 persons) and continued to participate in regional environmental events and to support NPO/NGOs. Pes • Continue to issue annual and site-specific CSR reports • Continue to hold environmental roundtable discussions with local univer Yes • Continue to hold environmental roundtable discussions with local univer Yes • Continue to issue annual and site-specific CSR reports • Continue to hold environmental roundtable discussions with local univer		Yes		
Held environmental roundtable discussions with local university students We signed agreements with related sites (Kyoto Model Forest Association, Kameoka City, Kyoto Prefecture) and land use right memorandums with local land owners as part of our forest conservation activities. We also worked with experts to investigate forest maintenance methods and developed an action plan for forest conservation activities to begin in FY2008. Murata Group held 56 environmental education programs for elementary and junior high school children (3,550 persons) and continued to participate in regional environmental events and to support NPO/NGOs. Pes • Continue to hold environmental roundtable discussions with local universe. Yes • Begin Murata Forest conservation activities • Continue implementing environmental education programs for elementary high school children, participating in environmental fairs and other relater regional cleaning activities, and supporting NPO/NGOs • Continue developments under the Mid-Term Greening Plan • Gain SEGES certification (Izumo Murata, Toyama Murata, Okayama Murata)	Issued 2007 annual CSR and site-specific CSR reports	Yes	Continue to issue annual and site-specific CSR reports	
Kyoto Prefecture) and land use right memorandums with local land owners as part of our forest conservation activities. We also worked with experts to investigate forest maintenance methods and developed an action plan for forest conservation activities to begin in FY2008. Murata Group held 56 environmental education programs for elementary and junior high school children (3,550 persons) and continued to participate in regional environmental events and to support NPO/NGOs. Yes • Begin Murata Forest conservation activities • Continue implementing environmental education programs for elementary and high school children, participating in environmental fairs and other relate regional cleaning activities, and supporting NPO/NGOs • Continue developments under the Mid-Term Greening Plan • Gain SEGES certification (Izumo Murata, Toyama Murata, Okayama Murata)	Held environmental roundtable discussions with local university students	Yes	Continue to issue annual and site-specific CSR reports Continue to hold environmental roundtable discussions with local university students	
junior high school children (3,550 persons) and continued to participate in regional environmental events and to support NPO/NGOs. Yes Yes Online developments under the Mid-Term Greening Plan Gain SEGES certification (Izumo Murata, Toyama Murata, Okayama Murata)	Kyoto Prefecture) and land use right memorandums with local land owners as part of our forest conservation activities. We also worked with experts to investigate forest maintenance	Yes	Continue implementing environmental education programs for elementary and junior high school children, participating in environmental fairs and other related events and regional cleaning activities, and supporting NPO/NGOs Continue developments under the Mid-Term Greening Plan Gain SEGES certification (Izumo Murata, Toyama Murata, Okayama Murata, Fukui Murata,	
Kanazawa Murata and Kamatau Murata	junior high school children (3,550 persons) and continued to participate in regional	Yes		
Contained developments and wild form decembly fail	Continued developments under the Mid-Term Greening Plan	Yes	Kanazawa Murata, and Komatsu Murata)	
Gained SEGES certification for the Yokohama Technical Center and the Yasu and Yokaichi Plants Yes		Yes		