

Murata Environmental Charter

In 1995, Murata established its Environmental Charter, which spells out the basic environmental policy and action plan for the whole group. Murata is making a daily effort to put this commitment into practice.

Corporate Environmental Policy

[Concept]

In the desire to contribute toward a truly rich human society, we develop materials and products, devise and maintain production activities, and supply products worldwide. However, we cannot deny that our production activities as well as our products themselves are unintentionally affecting the global environment. We fully acknowledge this impact on the global environment and are taking actions to reduce our environmental impacts as one of the important initiatives being put into practice as part of our Murata Philosophy and establishment vision. We will unite the efforts of our management organization, repeatedly work toward reducing our environmental impacts, and through management efficiency determine the points at which business and environmental interests converge.

[Action Guidelines]

1. Not restricting ourselves merely to the observance of environmental laws and regulations, we will establish a voluntary management standard and strive to improve our management standards for environmental protection.
2. We will strive to reduce the environmental impacts of our products.
 - 2-1 In our R&D and design activities, we will consider approaches that will minimize the environmental impact of our products.
 - 2-2 In cases where a product contains an environmentally hazardous substance, we will seek ways to reduce the amount used or incorporate a more benign substitute.
 - 2-3 In an effort to minimize the amount of packaging materials used with our products, we will adopt a "reduce, reuse and recycle" policy.
 - 2-4 We will develop procurement activities through which we will select materials that have minimal direct or indirect environmental impacts.
3. We will strive to reduce the environmental impacts of our business operations.
 - 3-1 To help prevent global warming, we will implement energy conservation and reduce greenhouse gas emissions.
 - 3-2 Where production processes make use of environmentally hazardous substances, we will seek ways to reduce the amounts used or incorporate more benign substitutes.
 - 3-3 We will aggressively seek to reduce, reuse and recycle wastes, and seek to minimize the amount of waste produced and conserve resources.
4. Through aggressive social initiatives, we will adopt environmental preservation activities in close contact with the local community and promote afforestation of corporate land according to a systematic long-term plan while working to improve the local environment.
5. While making all employees aware of the environmental policy, we will strive to raise employee awareness of higher environmental ethics. Moreover, we will develop timely and appropriate educational as well as public relations activities.
6. We will strive to become a corporation focused on environmental management and active public disclosure of our achievements in this area.
7. To implement each of the above action guidelines, we will establish and adopt our environmental action plan while continuously striving to improve our environmental performance.

3rd Environmental Action Plan

Theme	Item	Targets for Fiscal 2010
Environmental management	Enhancement of the environmental management system	Establish the identity and concept of environmental management, and provide environmental management by extending cooperation inside and outside the company. Obtain ISO 14001 multi-site certification on a global basis.
Supply of environmentally conscious products	Environmentally conscious designs	Compile a life cycle assessment (LCA) database for each product. Establish the environmental impact of each product with actual numerical values and devise a system for setting out business policies with an environmental perspective.
	Reducing the use of environmentally hazardous substances contained in products	Actively promote the adoption of alternative materials or conversion to alternative technologies. Promote and strengthen the reduction and elimination of environmentally hazardous inorganic substances. Eliminate the use of polyvinyl chloride.
	Information management related to environmentally hazardous substances	Engage in e-disclosure of information on environmentally hazardous substances used in products and will strengthen tie-ups with e-businesses.
	Reducing the use of packaging materials and conserving energy consumed in distribution	Reduce the amount of packaging materials used per unit of net production in Japan by more than 30% compared to FY 2000 levels. Reduce CO ₂ emissions from physical distribution per unit of net production in Japan by more than 30% compared to FY 2000 levels.
	Green procurement	Continue investigating the green value of materials in order to accommodate changing demands from customers and industries in Japan and other countries after FY 2006, and maintain a 100% green procurement ratio for materials used in production.
Eco-friendly business operations	Prevention of global warming	Reduce CO ₂ emissions per unit of net production in Japan by more than 25% compared to FY 1990 levels.
	Practicing the axiom of "reduce, reuse, and recycle" for resource conservation & waste reduction	Reduce the waste generated per unit of net production in Japan by more than 55% compared to FY 2000 levels. Achieve a material recycling rate as close to 100% as possible. Reduce water consumption per unit of net production in Japan by more than 55% compared to FY 2000 levels.
	Management and reduction of environmentally hazardous substances used in processing	Reduce the atmospheric release of volatile organic compounds (VOCs) by more than 30% compared to FY 2000 levels.
	Risk management	Remain committed to limiting environmental risks to the greatest extent possible, learning from the past as continuing with the remediation of contaminated soil and groundwater.
Social activities	Environmental communication	Continue to promote information disclosure and undertake business management in close contact with the local communities and societies in which Murata Group companies are located.
	Community and social activities	Continue to contribute to the community and society, provide greenery around plants and offices, and undertake business management in close contact with the local communities and societies in which Murata Group companies are

Theme	Item	Targets for Fiscal 2006
Environmental management	Enhancement of the environmental management system	Obtain ISO 14001 multi-site certification at Murata Manufacturing. Establish internal management techniques for cost-effective environmental management and provide our subsidiaries outside Japan with an environmental cost management system.
Supply of environmentally conscious products	Environmentally conscious designs	Extend product assessments throughout the company. Devise an arrangement by which we will address environmental conservation when formulating research and development themes. Compile a database in order to increase the efficiency of LCA data calculations.
	Reducing the use of environmentally hazardous substances contained in products	Actively promote the adoption of alternative materials or conversion to alternative technologies. Complete the elimination of substances subject to the RoHS (European Union "Restriction of Hazardous Substances") Directive. Curtail the amount of halogenated flame retardants in use by 20% compared to FY 2003 levels.
	Information management related to environmentally hazardous substances	Compile and adopt a chemical substance management database. FY 2004: Compilation of a database for finished products FY 2005: Compilation and sharing of a database on materials for the purchasing department
	Reducing the use of packaging materials and conserving energy consumed in distribution	Reduce the amount of packaging materials used per unit of net production in Japan by more than 20% compared to FY 2000 levels. Reduce CO ₂ emissions from physical distribution per unit of net production in Japan by more than 20% compared to FY 2000 levels.
	Green procurement	Conduct surveys of the green value of materials in order to responsibly accommodate additions to or revisions of lists of controlled substances in response to changing demands from customers and industries. Achieve a 100% green procurement ratio for materials used in production at plants and subsidiaries in Japan and continue efforts to achieve this target at subsidiaries outside Japan, during FY 2004. Achieve a 100% green purchasing ratio for all products not used in production, and disclose our progress in achieving this green purchasing target.
Eco-friendly business operations	Prevention of global warming	Reduce CO ₂ emissions per unit of net production in Japan by more than 23% compared to FY 1990 levels.
	Practicing the axiom of "reduce, reuse, and recycle" for resource conservation & waste reduction	Reduce total waste emissions per unit of net production in Japan by more than 35% compared to FY 2000 levels. Achieve a material recycling rate in Japan of 90%. Reduce water consumption per unit of net production in Japan by more than 35% compared to FY 2000 levels. Achieve zero emissions in construction of new buildings in Japan. Promote zero emissions in construction of new buildings outside Japan.
	Management and reduction of environmentally hazardous substances used in processing	Reduce atmospheric emissions of VOCs, which contribute to the generation of photochemical oxidants, and suspended particulates by more than 3% compared to FY 2000 levels. Reduce atmospheric emissions in Japan of PFCs, which contribute to greenhouse gasses, by more than 80% compared to FY 2002 levels.
	Risk management	Undertake environmental remediation of contaminated soil and groundwater as a countermeasure to address the current method, which requires much time to achieve complete remediation at plants and subsidiaries where soil and groundwater contamination have been confirmed. This will reduce the remediation period by more than 50%.
Social activities	Environmental communication	Continue to issue an annual environmental report and will release additional information more than two times a year via other media. Issue environmental reports on each site.
	Community and social activities	Ensure that each plant and subsidiary undertakes activities more than once a year to contribute to the community and to society. Expand our offices' rooftop greenery areas to more than 10% of each rooftop area.