

Environmental Management

Basic Approach and Policy

Olympus Group Environmental Policy

The Olympus Group Environmental Charter was adopted in August 1992 with the aim of defining our basic philosophy on environmental issues and linking that philosophy to concrete action. In order to foster solutions to social problems through our business operations, in May 2015 we added an item to the Environmental Charter on compatibility between environmental protection and economic growth, and revised it into the Olympus Group Environmental Policy. Placing great importance on reducing environmental loads throughout product life cycles, we are actively working to improve the environmental performance of our products, facilities, and logistics processes.

Olympus Group Environmental Policy

Based on our corporate philosophy of “Making people’s lives healthier, safer and more fulfilling” that provides the basis for all corporate activities, the Olympus Group respects people’s security, health and the natural mechanisms. We will contribute to the realization of a sustainable society and sound environment by working to make the environment and economy compatible throughout our business operations.

1. Participation by All

Each employee enriches their understanding of environmental activities and each one of us will participate in the environmental activities conducted in consideration of the local features.

2. Promotion of Environmental Management

We will maintain the environmental management system and mechanism on a global scale so that we can continuously improve our environmental activities.

3. Compliance with Laws, Regulations, and Social Norms

We will fully comply with the laws and regulations, agreements with our stakeholders, and our voluntary standards in respect to the environment.

4. Reduction of Environmental Impact

Toward the solution of environmental issues, prevention of pollution, sustainable resource use, climate change mitigation and adaptation, and protection of biodiversity, we will reduce environmental impact of our products, services and business activities.

5. Development of Technologies to Foster Harmony with the Environment

We will develop the technologies that contribute to environmental protection and will make use of the results in our manufacturing processes, products and services.

6. Attributing Importance to Environmental Communication

We will proactively dispatch information about our environmental activities within and outside Olympus to deepen mutual understanding with our stakeholders.

System and its Activities

System to Promote Environmental Management

We have established a unit to promote environmental management within each of our business units and Group companies, while the Olympus Group Environmental Management Division is tasked with fostering environmental management across the Group. Progress on these activities is reviewed by the Board of Directors and the Executive Management Committee, and measures are taken across the Group to achieve our predefined environmental targets. We are collecting environmental measures, the status of legal compliance and the environmental data necessary for our environmental management system from each of our global sites. We established an efficient information infrastructure to collect and share these data across the Group and put it into operation in fiscal 2014.

Moreover, our major production facilities, as well as logistics and sales subsidiaries in Japan and overseas, have ISO 14001 certification, and we are continuously improving our environmental management system through audits and by other means. In June 2018, all group business sites and offices certified with ISO 14001 completed their certification update to ISO14001:2015, the revised certification for 2015.

Environmental Management Structure



*Covered businesses are consolidated Group companies both in Japan and overseas.

List of ISO 14001 Certified Sites/Offices

Sites/Office		Date of Certification	
Japan	Olympus Corporation	Technology Research Center (Ishikawa)	March, 2000
		Technology Research Center (Utsugi)	March, 2000
		Technology Research Center (Takakura)	February, 2018
		Nagano Facility (Tatsuno)	February, 1998
		Nagano Facility (Ina)	May, 2014
	Olympus Medical Systems Corporation	Hinode Plant	July, 1998
	Aizu Olympus Co., Ltd.		October, 1998
	Shirakawa Olympus Co., Ltd.		October, 1998
	Aomori Olympus Co., Ltd.		November, 1998
	Olympus Logitex Co., Ltd.		November, 2003
Olympus Medical Science Sales Co., Ltd.		March, 2004	

Sites/Office		Date of Certification
Asia Oceania	Olympus (Shenzhen) Industrial Ltd.	September, 1999
	Olympus (GuangZhou) Industrial Co., Ltd.	October, 2004
	Olympus Trading (Shanghai) Limited	February, 2012
	Olympus Vietnam Co., Ltd.	April, 2013
	Olympus Australia Pty Ltd	August, 2017
Europe	Olympus Winter & Ibe GmbH	May, 2001
	KeyMed (Medical & Industrial Equipment) Ltd.	March, 2002
Americas	Olympus America Inc., National Service Center	December, 2005
	Olympus Scientific Solutions Americas Corp.	July, 2010
	Olympus Scientific Solutions Technologies Inc.	July, 2010
	Olympus NDT Canada Inc.	July, 2010

◎ Major Environmental Activity Results in Fiscal 2017

Primary Policy		Target	Measures	Fiscal 2017 Achievements and Results	Fiscal 2018 Target
Promotion of environmental management	Enhancement of environmental governance system	Enhance the environmental governance system on a global level	<ul style="list-style-type: none"> Respond to ISO 14001 revisions 	<ul style="list-style-type: none"> Completed updating to ISO14001:2015 certification in eight domestic business sites Provided practical training for environmental promotion officers and Environmental Secretariat (24 people) Provided training for auditors on the revised ISO standard (130 persons). 	Improve operation efficiency for the Environmental Management System in compliance with ISO 14001:2015
	Environmental risk reduction activities	Continue to improve the process to comply with environmental laws	<ul style="list-style-type: none"> Improved wastewater management Examined compliance with environmental laws and regulations in non-manufacturing sites 	<ul style="list-style-type: none"> Completed pollution prevention process inspections in 30 global production sites On-site inspection of compliance with environmental laws and regulations in six domestic non-manufacturing sites Continue to improve the environmental regulatory compliance process for products and facilities 	<p>Trial for environmental risk diagnosis</p> <p>Continue to improve the environmental regulatory compliance process for products and facilities</p>
		HCFCs risk countermeasures Replacement planning and implementation	<ul style="list-style-type: none"> Identify HCFC-containing devices and create replacement plan 	<ul style="list-style-type: none"> Completed HCFC-containing device survey in each global site and completed replacement planning 	
Environmental initiative throughout product life cycles	Product-related initiatives	Create Olympus Eco-Products (no quantitative target)	<ul style="list-style-type: none"> Implement environmentally conscious designs tailored to each products' characteristics 	<ul style="list-style-type: none"> Created new Eco-Products in all business units (12 new, bringing total to 584) 	Continue to create products that are environmentally conscious and tailored to business characteristics
	Facilities-related initiatives	<p>Energy consumption rate: improve by 7.73% or more (compared to FY2012), by 2020</p> <p>Water use rate: improve compared to FY2016</p> <p>Waste discharge rate: improve compared to FY2016</p>	<ul style="list-style-type: none"> Conduct ongoing manufacturing improvement activities 	<ul style="list-style-type: none"> Energy consumption rate: improved by 6.6% Water use rate: improved by 5.9% Waste discharge rate: 0.0% (same as previous fiscal year) 	Carry out activities to improve the energy consumption rate in accordance to local characteristics such as manufacturing improvement, energy conservation, introduction of natural energy, etc.
	Environmental contribution activities	Environmental contribution activities under the theme of "Water Circulation—Protection of Forests, Rivers, and Oceans"	<ul style="list-style-type: none"> Conduct environmental contribution activities at global sites Conduct activities under the theme of "Ocean Legacy Project" 	<ul style="list-style-type: none"> Conducted river clean-ups and local greening activities at global sites Conducted ongoing coral planting and nature school (2 times) 	Continue environmental activities

Systems and Mechanisms

Environmental Risk Management

Violations of laws and regulations related to chemical substances contained in products, effluent from production sites, and soil and groundwater contamination are important environmental risks that affect Olympus Corporation's management such as by shutting down operations, generating recovery costs and reducing corporate value. Therefore, we maintain and revise rules and regulations for regulatory compliance, educate environmental promoters, monitor and improve local investments, and work to reduce environmental risks.

The advance of global warming is causing more frequent cases of extreme weather. As concluded by the Paris Agreement, climate change is a serious environmental factor that can have a serious impact on business activities. We experience this as business continuation risks deriving from climate change. For example, we might experience increases in business costs due to tougher CO₂ reduction regulations in different countries, emissions trading and carbon taxes. Or our supply chain may be cut off by ever more destructive natural disasters, such as typhoons and floods. As countermeasures against these risks, we are working to improve energy usage efficiency, increase our use of renewable energy, and broaden our range of suppliers. Water risk, which is a global concern, is another factor that may have an impact on our business operations through increases in business costs due to reinforcement of wastewater regulations and water shortages—although the scope of those impacts may be limited. We are now establishing business sites in areas where water is abundant and reducing water usage in our business activities as a way of hedging the risks. To monitor wastewater, we appoint wastewater facility managers and regularly measure our wastewater volumes.

Olympus also sees the business opportunities presented by environmental risks and actively develops and sells environmentally conscious products as well as products that contribute to the resolution of environmental issues accordingly.

◎ Compliance with Environmental Laws (FY2017)*

Company/Facility	Description & Cause	Countermeasures
Olympus America Inc.	Failed to change organic solvent handling classifications	In addition to a check by solvent managers on the quantity of organic solvents, we have now added a monthly check by compliance managers.

*Relatively minor violations have been excluded.

Biodiversity Conservation

There is a concern that the loss of biodiversity will have a serious impact on the global environment and our lives.

Olympus is working to conserve biodiversity, including the management of water use and wastewater and the maintenance of green spaces, through cleanup and forest conservation activities in areas surrounding its facilities.

Green Procurement

Olympus published the "Olympus Group Green Procurement Standard" in 2001. The Green Procurement Standard, which is also posted on our website, explains Olympus' approach to its environmental activities to all suppliers.

In addition, in our corporate survey that we conduct once a year targeting major suppliers in Japan and abroad with whom we have ongoing business, we verify whether the suppliers have acquired ISO 14001 certification, reduced CO₂ and waste, and what measures they have taken against chemical substances. In this way, we are working to raise the level of our environmental activities with suppliers.

Olympus Group Green Procurement Standard
<http://www.olympus-global.com/en/csr/involvement/management/procurement/>

Environmental Education and Awareness Activities

To promote environmental activities with the participation of all employees based on the “Olympus Group Environmental Policy,” Olympus works to raise environmental awareness through activities implemented during the Olympus Environmental Awareness Month, such as the “Global Environmental Photo Contest.”

Moreover, we provide environmental education appropriate to each department, including education on compliance with environmental laws and regulations and on the ISO 14001 internal audit.

Global Environmental Photo Contest

http://www.olympus-global.com/en/csr/involvement/management/WEB_education/2016.jsp

◎ Major Environmental Education Programs (Japan/FY2017)

Target	Purpose/Description	Number of Participants
Environmental managers	Thorough notification of revisions to environmental laws, along with necessary changes in operations at facilities Understanding the ISO14001:2015 requirements	10
Environmental Secretariat staff at facilities	Training to improve skills for environmental officers (Understanding key points for efficient usage of the Environmental Information Management System and related discussions)	14
Environmental audit leaders	Training to improve internal audit skills (Understanding key points in audit indications and improvement proposals, audit role playing, etc.)	63
Environmental auditors	Audit training based on ISO 14001:2015 (Understanding the revisions to ISO 14001, audit experience, etc.)	272