

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 “Social IN” corporate philosophy that provides the basis for all corporate activities, the Olympus Group respects people’s security and health and the natural mechanisms that realize this. We will contribute to the realization of a sustainable society and sound environment by working to make the environment and economy compatible in 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 through 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. As a part of these activities, we established an IT system that provides the basis for global management of the data and documents related to our environmental management system. Operations commenced from fiscal 2014.

Moreover, our major production sites, 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 fiscal 2016, Olympus Logitex Co., Ltd. and Olympus Vietnam Co., Ltd. acquired certification for transition to ISO14001:2015 revision.

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
Nagano Facility (Tatsuno)*1	February, 1998
Hinode Plant	July, 1998
Aizu Olympus Co., Ltd.	October, 1998
Shirakawa Olympus Co., Ltd.	October, 1998
Aomori Olympus Co., Ltd.	November, 1998
Olympus (Shenzhen) Industrial Ltd.	September, 1999
Technology Research Center (Hachioji)	March, 2000
Olympus Winter & Ibe GmbH	May, 2001
KeyMed (Medical & Industrial Equipment) Ltd.	March, 2002
Olympus Logitex Co., Ltd.	November, 2003

Sites/Office	Date of Certification
Olympus Medical Science Sales Co., Ltd.	March, 2004
Olympus (GuangZhou) Industrial Co., Ltd.	October, 2004
Olympus America Inc., National Service Center	December, 2005
Olympus Scientific Solutions Americas Inc.	July, 2010
Olympus Scientific Solutions Technologies Inc.	July, 2010
Olympus NDT Canada Inc.	July, 2010
Olympus Trading (Shanghai) Limited	February, 2012
Olympus Vietnam Co., Ltd.	April, 2013
Nagano Facility (Ina)*2	May, 2014

*1 The former Tatsuno Plant has been certified as the Nagano Facility since April 2013.

*2 The former Ina Plant was certified in 1997. After consolidation with Tatsuno Plant and change into repair function, it was recertified in 2014.

Major Environmental Activity Results in Fiscal 2016

Primary Policy	Target	Measures	Fiscal 2016 Achievements and Results	Next Fiscal Year Plans
Promotion of environmental management	Enhancement of environmental governance system	<ul style="list-style-type: none"> Respond to ISO 14001 revisions 	<ul style="list-style-type: none"> ISO14001: 2015 certification acquired by Olympus Logitex and Vietnam Factory Provided training for internal audit leader and auditors on the revised ISO standard (210 persons). 	Start the Environmental Management System in compliance with ISO 14001:2015
	Compliance with environmental laws and regulations	<ul style="list-style-type: none"> Improve relevant management rules Educate relevant parties on environmental laws and regulations 	<ul style="list-style-type: none"> Established global pollution control and management rules. Maintained management rules for products and facilities Provided education on pollution control, chemical substance management and waste management (41 persons in Japan). 	Continue to improve the environmental regulatory compliance process for products and facilities
Environmental initiative throughout product life cycles	Product-related initiatives	<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 (16 new, bringing total to 572) 	Continue to create products that are environmentally conscious and tailored to business characteristics
	Facilities-related initiatives	<ul style="list-style-type: none"> Energy consumption rate: 7.73% or more reduction in fiscal 2020 (relative to fiscal 2012) 	<ul style="list-style-type: none"> Conduct ongoing manufacturing improvement activities Carry out environmentally conscious measures at time of new building construction 	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	<ul style="list-style-type: none"> Environmental contribution activities under the theme of "Water Circulation—Protection of Forests, Rivers, and Oceans" 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 (4 sessions) 	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. We implemented prompt emergency action for all violations of environmental laws that occurred in fiscal 2016, followed by training on internal rules to prevent any recurrence.

■ Control of Chemical Substances Used in Products

Products that Olympus designs and develops have been verified as not containing environment-related substances in accordance with "Olympus Group Control Rules for Chemical Substances Used in Products," which is maintained based on the chemical substance regulations of each country. In addition, if these rules are amended, we conduct additional surveys.

Olympus Group Control Rules for Chemical Substances Used in Products
<http://www.olympus-global.com/en/csr/involvement/management/chemical/index.jsp>

■ Management of Wastewater

To reduce the volume of wastewater, we are taking steps to reduce the volume of water usage and to recirculate water. Further, in each of our businesses, we have installed a wastewater equipment manager and set voluntary standards stricter than the laws and regulations in each region. By routinely measuring water quality, we rigorously maintain water quality.

■ Prevention of Soil and Groundwater Contamination

In the redevelopment of our facilities, we are voluntarily investigating soil and groundwater. We are also taking countermeasures based on reports that have been presented to and consultations with government.

◎ Compliance with Environmental Laws (FY2016)*

Company/Facility	Description & Cause	Countermeasures
Olympus Corporation	Oils in wastewater effluent (n-hexane extracts) temporarily exceeded permissible levels.	Continued monitoring, and took action to increase the cleaning frequency in oil removal facilities.
Gyrus ACMI, Inc.	pH level of wastewater effluent (hydrogen ion concentration) temporarily exceeded permissible levels.	Discontinued discharge of effluent and started to treat it as industrial waste.
Olympus America Inc.	Shortcomings in handling waste chemicals	Established waste chemical delivery rules and completed training for relevant personnel.

* Relatively minor violations have been excluded.

◎ Soil and Groundwater Survey

Survey Scope	Survey Results and Measures
Olympus property in Okaya City, Nagano Prefecture	A substance that exceeded designated levels was found in some areas of the soil in fiscal 2014 and this was removed and replaced with clean soil in compliance with the law.

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](http://www.olympus-global.com/en/csr/involvement/management/WEB%20education/2016.jsp)

◎ Major Environmental Education Programs (Japan/FY2016)

Target	Purpose/Description	Number of Participants
Environmental managers	Announcement on revisions in environmental laws, response & management policy at facilities	11
Environmental Secretariat staff at facilities	Understanding administrative procedures for pollution control, chemical substance control and waste management	12
Pollution control officers	Understanding the important points in dealing with pollution control	29
Environmental audit leaders	Training to improve internal audit skills (Understanding key points in audit indications and improvement proposals, audit role playing, etc.)	22
Environmental auditors	Audit training based on ISO 14001:2015 (Understanding the revisions to ISO 14001, audit experience, etc.)	188