Environmental management

Fundamental environmental policy
Comprehensive environmental policy
Environmental management system
Environmental accounting
Targets and results of environmental activities
Timetable of environmental activities

Fundamental environmental policy

At Yamanashi Prefectural K.K., we’re formulated a “Fundamental Environmental Policy” as a corporate-wide policy and are actively involved in environmental management activities.

Principle

Yamanashi, as a company that contributes to society through production technology, aims to realize a sustainable society toward a future with balance among all forms of life, while contributing the improvement to harmonize environment with society and economy.

Policy

1. Promoting environmentally friendly products
2. Promoting environmentally friendly business activities, as well as develop and provide products that contribute to environmental improvement and reduce the burden on the global environment
3. Actions to address environmental activities
4. Establishment and maintenance of environmental management targets, achieving our environmental goals based on the identification of risks and opportunities that can influence our business activities, products and services
5. Protection of the environment, prevention of pollution
6. Compliance with laws, ordinances, agreements with local government, voluntary agreements, and other environmental standards, voluntary standards, and guidelines
7. Compliance of environmental regulations
8. Training and education to employees, contract employees, temporary employees and employees in which we subcontract
9. Continual improvement of environmental management system
Make efforts to improve our environmental performance by the continual improvement of our environmental management system, through the evaluation of the environmental impact of our business activities
10. Promoting communication with society
Promote environmental communications and thereby communication with stakeholders and our employees, by widely disclosing environmental information to our internal and external.

Environmental management system

Our Company, the Yamanashi Prefectural Environmental Promotion Policy, aiming to be a company that can be trusted by society, we have established a system that can quickly respond to the needs from our customers, and work to constantly improve our EMS on the basis of management review.

Our EMS is based on the Yamanashi Prefectural K.K. Environmental Management Manual, and

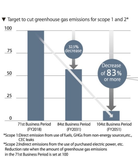
Reducing carbon emissions and climate change

Long-Term Vision of Global Warming Countermeasures ▶
Value chain carbon emissions ▶
Reductions in GHG emissions ▶
Trends in energy usage and carbon emissions ▶
Case study of electricity saving ▶
Renewable energy ▶
Response to the fluorocarbon emission control act ▶

Long-Term Vision of Global Warming Countermeasures

In recent years, the problems caused by climate change, such as extreme weather (droughts, heat waves, and heavy rain, etc.), as well as the increasing number of natural disasters, which were traditionally thought to occur once every 50 years, have been impacting serious impacts in many parts of the world. In addition to strengthening business continuity, companies are also required to take measures against climate change in terms of both mitigation and adaptation. In March 2020, we formulated our Long-Term Vision of Global Warming Countermeasures, and are working to cut greenhouse gas emissions (scope 1 and 2) from our business activities. We are also working towards SBT (Science Based Targets) certification, which is a mechanism for companies to set emission reduction targets consistent with the Paris Agreement.

▼ Target to cut greenhouse gas emissions for scope 1 and 2*



*Scope 1:Direct emission from use of fuel, GHGs from non-energy sources,etc., CO2 etc.
*Scope 2:Indirect emissions from the use of purchased electric power, etc.
Reduction rate when the amount of greenhouse gas emissions in the 71st Business Period is set at 100

Long-term Vision
Aim to reduce greenhouse gas emissions in the 104th Business Period by at least 83% (2.5% annually)
71st Business Period used as standard for comparison

71st Business Period 54,048 t-CO_2

Greenhouse Gas Emissions (compared to the 71st Business Period) **6.7% decrease**

Greenhouse gas emission date is verified by a third party.

Trends in energy usage and carbon emissions

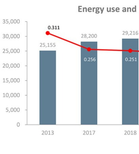
Hamamatsu Photonics is conducting a range of energy-saving activities to achieve our medium-term target of reducing its energy consumption rate by 18% or more by FY2031 compared with FY2010.

In the fiscal year under review, we cut its energy consumption rate by 15.7 % in comparison with FY2013, outperforming its target of 7 % or more. We achieved this feat by implementing energy-saving measures in buildings and actively introducing equipment from the Top Runner system. Meanwhile, though carbon emissions increased 0.08 % against the previous fiscal year, that figure represented a 2.7 % increased in carbon emissions per unit of net sales. In addition to taking measures against carbon-based energy sources, we continued to reduce its use of perfluorinated compounds (PFCs), sulfur hexafluoride (SF_6) and other gases used in semiconductor manufacturing that are factors in global warming. We are achieving these reductions through the introduction of combustion and plasma abatement systems, which it began in FY2006.

We will continue to pursue efforts to reduce energy consumption and prevent global warming.

Carbon Emissions and its ratio sales

Energy use and its of sales



Renewable energy

Hamamatsu Photonics is working hard to reduce carbon emissions by advancing the implementation of renewables such as solar and wind power. At Toyooka Factory, we have installed solar power generating equipment (250 kW) on the walls and roof of No. 15 Building in collaboration with our solar power business. On the premises of the Central Research Laboratory, we combine solar power generation with small-scale wind power generation, in a hybrid solution for outdoor lighting. As of January 2020, we have implemented a cumulative total 454 kW of renewable energy.
In October 2018, we commenced purchasing of Chubu Electric's "CO_2-free Electricity," expanding our introduction of renewables.

Renewable-energy (target FY2020)	Renewable energy usage rate: 5 % or more 6.4% (as of September 2020)

Solar power generation equipment (Hamamatsu Factory)

Solar power generating equipment (Shingai Factory)

Hybrid wind/solar powered outdoor lighting (Central Research Laboratory)

Solar power generating equipment (Kiken Factory)

Value chain carbon emissions

To grasp the environmental impact of the value chain[1], HPK is working on the calculation of Scope 3 (shown below) which is based on the Greenhouse Gas (GHG) Protocol.
Going forward, we will expand the calculation scope of Scope 3, improve accuracy, and strive to reduce emissions throughout the value chain.

Category	FY2018 emission volume		FY2019 emission volume		FY2020 emission volume	
	Emission volume (t-CO_2)	Share of total (%)	Emission volume (t-CO_2)	Share of total (%)	Emission volume (t-CO_2)	Share of total (%)
Scope 1 (direct emissions; use of fuel, etc.)	12,043	2.7	12,074	2.7	11,689	2.1
Scope 2 (indirect emissions; use of purchased electricity, etc.)	45,902	10.2	41,931	9.2	42,359	7.6
Scope 3 (other indirect emissions)	390,563	87.1	398,834	88.1	500,350	90.3
1. Purchased goods and services	(219,224)	(56.1)	(229,823)	(57.6)	(292,242)	(58.4)
2. Capital goods	(68,944)	(17.7)	(70,024)	(17.6)	(112,652)	(22.5)
3. Fuel and energy use not included in scopes 1 and 2	(5,536)	(1.4)	(5,489)	(1.4)	(8,035)	(1.6)
4. Transport and delivery (upstream)	(6,388)	(1.6)	(6,799)	(1.7)	(6,979)	(1.4)
5. Waste generated by business activities	(236)	(0.1)	(372)	(0.1)	(362)	(0.1)
6. Business travel	(1,535)	(0.4)	(1,630)	(0.4)	(884)	(0.1)
7. Commuting by employees	(3,770)	(1.0)	(3,830)	(1.0)	(4,588)	(0.9)
8. Lease assets (upstream)	—	—	—	—	—	—
9. Transport and delivery (downstream)	—	—	—	—	—	—
10. Processing of sold products	—	—	—	—	—	—
11. Use of sold products	(84,586)	(21.7)	(80,763)	(20.2)	(73,899)	(14.7)
12. Disposal of sold products	(343)	(0.1)	(105)	(0.0)	(109)	(0.0)
13. Lease assets (downstream)	—	—	—	—	—	—
14. Franchises	—	—	—	—	—	—
15. Investments	—	—	—	—	—	—

[1] The entire series of processes involving products, including material procurement, production, logistics, use and disposal. Includes both upstream and downstream parts of the Company's supply chain.

Method of calculation of scope 3

Category	Activity volume	Unit
1. Purchased goods and services	Amount of purchases of raw materials and parts	Emissions per unit amount of purchase
2. Capital goods	Monetary amount of capital goods purchased	Emissions per unit amount of purchase
3. Fuel and energy use not included in scopes 1 and 2	Quantity of electricity purchased	Emissions per unit of electricity and fuel used
4. Transport and delivery (upstream)	• Shipping volume related to purchased products and services • Cost of shipping of sold products	• Emission rate (corrected t-kg method) • Emission rate by shipping method
5. Waste generated by business activities	Output volume by type of waste	Output rate by type of waste
6. Business travel	• Distance traveled • Traveling expenses paid	Emission rate by transportation mode
7. Commuting by employees	• Distance traveled • Commuting expenses paid	Emission rate by commuting mode
8. Lease assets (upstream)	N/A	—
9. Transport and delivery (downstream)	N/A	—
10. Processing of sold products	N/A	—
11. Use of sold products	Final products: Number of units shipped, power consumption and service life	Proxy value for CO_2 emission coefficient by electricity provider (the Ministry of the Environment)
12. Disposal of sold products	Final products: Number of units shipped and product weight	Emission rate by product type
13. Lease assets (downstream)	N/A	—
14. Franchises	N/A	—
15. Investments	N/A	—

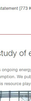
Third-party Verification of greenhouse gas emissions based on ISO 14064-3

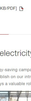
To provide and publish transparent and reliable information on the greenhouse gas emissions data calculated by Hamamatsu Photonics (scope 1, 2, and 3), we obtained third-party verification by SGS Japan Inc., and their written opinion. We will continue to work to improve the reliability of its data and reduce greenhouse gas emissions.

Case study of electricity saving

As part of its ongoing energy-saving campaign, Hamamatsu Photonics is advancing the visualization of its electrical power use and striving to reduce peak power consumption. We publish on our intranet a Power Use Status Monitor, which displays demand and power consumption at each business location in real time. This resource plays a valuable role in each employee's self-directed activities to save electricity.

Electricity gauge


List display


Graph display

Response to the fluorocarbon emission control act

The Revised Fluorocarbons Recovery and Destruction Law, which was drafted for the purpose of preventing global warming caused by leaks of GHGs substitutes, was enacted in April 2015.

We are promoting compliance with this law by assigning a control number to each relevant equipment and building an internal database for managing that equipment information and inspection records. In each division and business site, we conduct education activities covering laws and regulations as well as internal management methods for the administrators.

Management database

Control number sticker

Reductions in GHG emissions

GHG used in semiconductor manufacturing such as PFC, SF_6 and HFC have large global warming potential (GWP). We are working to reduce its emissions by installing removal devices and optimizing processes.

Abatement systems

Management of pollution including waste

Measures to prevent pollution ↓ | Appropriate management of chemicals ↓ | Appropriate waste management ↓
Preventing pollution of soil and groundwater ↓

Measures to prevent pollution

Hamamatsu Photonics works hard to prevent pollution. Our production facilities, most of which are located in Japan, use a range of chemicals in their manufacturing processes, some of which are specified hazardous substances under the Pollutant Release and Transfer Register Law, and the emissions of these chemicals must be reported to the government through the Pollutant Release and Transfer Register (PRTR) system. We appropriately report to the competed authority based on the data which stem from the chemical usage survey conducted twice a year.

The chemicals used at our sites are managed through the surveys of chemical use described above, as well as through Green Procurement Management Standard for Chemical Substances For HAMAMATSU Group[1]. These substances are controlled especially carefully during the disposal phase. Japan's Environmental Basic Act lists seven typical forms of pollution that can be harmful to human health and living environments; (1) Air pollution, (2) Water pollution, (3) Soil pollution, (4) Noise, (5) Vibration, (6) Land subsidence, and (7) Odor. At Hamamatsu Photonics, we manage all these forms of pollution according to the law and our own standards from the perspective of preventing accidents that can cause pollution. When the possibility of pollution from our business activities arises, we move promptly to identify the source of the pollution, report the matter to the competent authorities and local communities and strive to return conditions to their original state.

*1 Green Procurement Management Standard for Chemical Substances For HAMAMATSU Group; Hamamatsu Photonics' in-house standards applying to substances the Company designates as the Environment-related Substances. We also have the Green Procurement Management Standard for Chemical Substances For Suppliers which sets the same level of criteria as the standard for HAMAMATSU Group sets, which focuses on chemicals contained in products/parts supplied by suppliers and is opened to the public.

Note: The data tabulation period is based on the Company's fiscal year.

FY2020: October 1, 2019 to September 30, 2020
FY2019: October 1, 2018 to September 30, 2019
FY2018: October 1, 2017 to September 30, 2018
FY2017: October 1, 2016 to September 30, 2017
FY2016: October 1, 2015 to September 30, 2016

Appropriate management of chemicals

Twice a year, Hamamatsu Photonics conducts a survey of the status of chemical use, to gain an understanding of the full extent of its use of chemicals in manufacturing processes and the like. Among these are Class 1 specified chemicals[2] as designated in the PRTR system. When chemicals of this type are handled by the Company in quantities of 1 t per year or more, they become subject to reporting. In 2019 the Main Factory and Miyakoda Factory reported the use of 4 such chemicals. The chemicals reported by Hamamatsu Photonics, the volume of Class 1 specified chemicals handled in each fiscal year[3], and their output per unit of net sales are as shown below. In FY2020, Volume handled was same level as previous fiscal year but volume handled per unit of net sales slightly increased because net sales decreased.

*2 Chemicals for which both submission of the volume released into the environment under the PRTR system and provision of safety data sheets (SDSs) are required. As of May 2020, 462 substances are designated as Class 1 specified chemicals.

https://www.meti.go.jp/policy/chemical_management/law/prtr2.html ↩

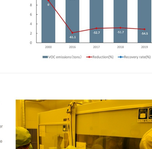
*3 Chemicals of this type used by any of the Company's business locations in quantities of over 1 kg per year are subject to tabulation.

Substances subject to reporting based on the PRTR system

	2015	2016	2017	2018	2019
Toyooka Factory	-	-	-	-	-
Tenno Glass Works	-	-	-	-	-
Main Factory	1. 2-amino ethanol 2. Hydrogen fluoride and its water-soluble salts 3. Pyrocatechol	1. 2-amino ethanol 2. Hydrogen fluoride and its water-soluble salts	1. 2-amino ethanol 2. Hydrogen fluoride and its water-soluble salts	1. 2-amino ethanol 2. Hydrogen fluoride and its water-soluble salts 3. Pyrocatechol	1. 2-amino ethanol 2. Hydrogen fluoride and its water-soluble salts 3. Pyrocatechol
Mitsue Factory	-	-	-	-	-
Shingai Factory	-	-	-	-	-
Joko Factory	-	-	-	-	-
Central Research Laboratory	-	-	-	-	-
Miyakoda Factory (Compound semiconductor Fabrication Center)	-	-	-	Ferric chlorides	Ferric chlorides
Industrial Development Research Center	-	-	-	-	-
Tsukuba Research Center	-	-	-	-	-

Advancement of collection and use of SDSs

SDSs are useful for understanding the properties of chemicals and handling them safely. Hamamatsu Photonics ensures that the latest SDSs not only for chemicals newly provided in production but also those provided under the Industrial Safety and Health Act but for all chemicals it handles. SDSs are recorded in the Company's database, playing a role in risk assessment of chemicals and in maintaining the safety of workplaces and the surrounding environment.



Reducing atmospheric emissions of VOCs

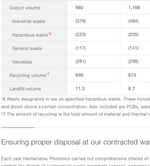
To reduce atmospheric emissions of volatile organic compounds (VOCs), Hamamatsu Photonics is reducing its use of these compounds and installing equipment for its recovery. VOCs are primarily used in industrial cleaning facilities, with major emissions in this category including ethanol, isopropyl alcohol and acetone. Targets for reduction of VOC emissions include a 30% or more reduction in VOC emissions per unit of net sales in comparison with FY2000 and a recovery rate of 50% or more.

Inspection of status of handling of chemicals

While evaluation of risks associated with chemicals is based on SDSs, the actual degree of risk is heavily dependent on the environment in which chemicals are used. At Hamamatsu Photonics, we regularly inspect the workplaces and chemical storage sites where chemicals are handled, under the Chemicals Working Group. When problems are detected through the inspection process, we correct them promptly, then report the matter to the Headquarters Chemicals Working Group and share the information appropriately.

Chemical safety training

To ensure employees treat chemicals properly and prevent environmental accident, Hamamatsu Photonics has prepared accident and disaster response manuals, installs and inspects disaster-response equipment, and regularly holds disaster-response training sessions. Training sessions include training on response to chemical spills, evacuation drills in preparation for indoor gas leaks and training on respirator tank attachment.
We also regularly hold chemical safety educational program for employees. To understand risk about treating chemical substance, we share internal/external chemical substance accident cases or invite expert from outside to give professional lecture.



Appropriate waste management

Striving for zero emissions

Based on the appropriate waste treatment as the basic policy, we have been managing wastes properly to achieve the idea of zero emissions[4]. To reduce their negative impact on the environment and use resources efficiently. For fiscal year 2020, we recorded the landfill rate[5] of 2.2 % and achieved zero emissions. This was accomplished by separating and reducing wastes, reducing inferior goods, reusing equipment and packaging materials and promoting recycling.

*4 "Zero emissions" is the approach of striving for a society with zero waste disposal. The strategy for achieving this goal consists of reducing resources used and waste generated in production processes while recycling any waste that is unavoidably generated. Hamamatsu Photonics has achieved zero emissions according to the definition in the 3rd Shizuoka Prefecture Recycling Society Plan, which is "a final treatment (landfilling, etc.) rate of less than 1.8%."
including waste acid and waste alkali.
*5 Landfill rate; Landfill volume in proportion to waste volume

	FY2016	FY2017	FY2018	FY2019	FY2020
Output volume	980	1,168	1,194	1,301	1,292
Industrial waste	(379)	(494)	(550)	(541)	(549)
Hazardous waste[6]	(223)	(235)	(271)	(315)	(307)
General waste	(117)	(141)	(123)	(152)	(149)
Valuables	(261)	(298)	(251)	(293)	(287)
Recycling volume[7]	699	873	914	1,050	1,077
Landfill volume	11.3	8.7	4.6	6.3	2.7

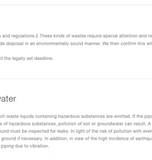
*6 Waste designated in law as specified hazardous waste. These include sludge, waste acid, and waste alkali, all containing heavy metals, organic chlorides, and dioxin above a certain concentration. Also included are PCBs, asbestos, and waste mercury.
*7 The amount of recycling is the total amount of material and thermal recycling added to the amount of valuable materials.

Ensuring proper disposal at our contracted waste facilities

Each year Hamamatsu Photonics carries out comprehensive checks of our contracted waste facilities, to ensure that waste is disposed appropriately. We confirm the details of contractors' waste-treatment licenses, compliance with requirements for treatment and storage of waste as stipulated in the Waste Disposal and Public Cleansing Act, and whether contractors maintain harmonious relationships with surrounding residential communities. In audits of contractors, we review all processes from waste transport to landfilling. If incorrect treatment occurs (an event for which the Company fortunately has no cases at this time), the Company reports the matter to the competent authorities in accordance with the law.

Number of confirmations of status of proper disposal by our contracted waste facilities

	FY2016	FY2017	FY2018	FY2019	FY2020
Number of confirmations	21	17	21	23	19



Appropriate disposal of hazardous waste

Certain industrial wastes are identified as Hazardous Waste in several laws and regulations.5 These kinds of wastes require special attention and needs to be disposed of properly. We have entrusted contractors whose facilities provide disposal in an environmentally sound manner. We then confirm this with a follow up visit at these sites on a regular basis.
Especially, we strictly manage PCB waste, because it must be disposed until the legally set deadline.

Preventing pollution of soil and groundwater

Hamamatsu Photonics' manufacturing processes include processes in which waste liquids containing hazardous substances are emitted. If the piping that conducts this waste liquid becomes damaged or cracked, resulting in leaks of hazardous substances, pollution of soil or groundwater can result. A revision of the Water Pollution Control Act mandates that even piping buried underground must be inspected for leaks. In light of the risk of pollution with even greater concern, we exclude underground piping and tanks and place them above ground if necessary. In addition, in view of the high incidence of earthquakes in Japan, we introduce flexible piping in certain places to prevent damage to piping due to vibration.

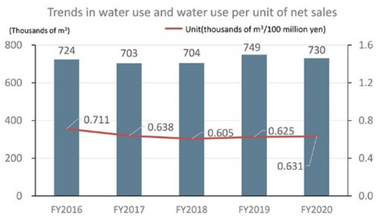
Placement of buried piping above ground and introduction of flexible piping

Protecting our water resources

Effective use of water resources ↓
Wastewater management ↓
Water risk assessment and countermeasures ↓
Contributions to replenishment of groundwater and preservation of forests ↓

Effective use of water resources

Hamamatsu Photonics is conducting activities aimed at supporting a 5% or more reduction in water use per unit of net sales (in comparison with FY2016) until the fiscal year ending September 30, 2021 (FY2021). We met this target in FY2020, with a 11.2% reduction as compared with FY2016.



Wastewater management

	Unit	FY2018	FY2019	FY2020
Water use (total)	Thousands of m^3	704	749	730
Tap water	Thousands of m^3	98	105	101
Well water	Thousands of m^3	575	601	585
Industrial water	Thousands of m^3	31	43	44
Wastewater (total)	Thousands of m^3	634	664	706
Public sewer	Thousands of m^3	127	135	138
River discharge	Thousands of m^3	507	529	568

Note: The term "Third party sources" used by the CDP Water applies to the total of "tap water" and "industrial water", and "Groundwater (renewable)" by the CDP Water applies to "Well water".
Note: "River discharge" is applied to total of "Fresh surface water" and "Groundwater" by the CDP Water, and "Third-party destinations" by the CDP Water applies to "Public sewer".

Hamamatsu Photonics monitors water intake and wastewater volumes at all of its factories and research facilities, based on the laws of Japan and its own criteria. Each month, third-party analytical organizations conduct wastewater analysis, testing wastewater at points just before the final discharge ports. If abnormal values are discovered, we immediately undertake to determine the causes and takes appropriate measures, in strict compliance with environmental laws and regulations.

Water risk assessment and countermeasures

Hamamatsu Photonics evaluate water risks of all production sites both Japan and overseas with water-risk evaluation tool “WRI Aqueduct”. As of January 2021, we confirm that all domestic production sites have no significant water risks.

In addition to "WRI Aqueduct", we also measure of risks with local hazard maps such as "Hamamatsu City Disaster Prevention Maps" and "Ibaraki Digital Map". As a result, we recognize that Shingai Factory would be inundated if the Tenryu River should flood. Therefore, in the new building No.2 of the Shingai Factory, we are taking measures against flood damage, such as installing waterproof walls and buoyancy flip-up waterproof plates.

Furthermore, Hamamatsu Photonics has participated in the CDP Water Survey since 2016, we report our water risk and countermeasures on it.

Installing waterproof walls and buoyancy flip-up waterproof plates

Contributions to replenishment of groundwater and preservation of forests

• Replenishment of groundwater and preservation of forests
To preserve the groundwater in its home region, Hamamatsu Photonics and the Regional Groundwater Response Council cosponsor regular groundwater-replenishment and forest-preservation exercises. We participate in these exercises as a member of the Council, which is composed of Iwata City Environmental Preservation Promotion Council and groundwater users in the surrounding region. The aim of these efforts is to preserve abundant water resources for future generations by maintaining groundwater replenishment levels, through the cultivation of healthy forests. In 2020 we took part in thinning of a local forest aimed at replenishing groundwater, sponsored by the Regional Groundwater Response Council.

• Afforestation for protection against tides
As part of its activities to preserve biodiversity and contribute to the region, we participate in the "~KALA Project". The "~KALA Project" is a project to plant protective stands of trees on the inland side of seawalls, to mitigate damage from tsunamis. The effort was initiated as part of the Hamamatsu Area Seawall Plan, led by the government of Shizuoka Prefecture. Since 2017 we have participated twice a year, with activities such as planting trees and mowing grass.

(Photo courtesy of: Iwata City)

Green procurement activities

To partners delivering parts and materials to Hamamatsu Photonics K.K. ↓
Request for cooperation in supplier surveys ↓
Survey tools ↓
Notes on using survey tools ↓
Inquiries concerning green procurement ↓

To partners delivering parts and materials to Hamamatsu Photonics K.K.

As interest grew on the part of society with respect to the environment and international environmental regulations were beefed up, Hamamatsu Photonics decided to formulate "Green Procurement Guidelines" and "Green Procurement Management Standard for Chemical Substances", and to promote involvement in environmental concerns. We ask our business partners for their understanding and cooperation in this effort, and to conform to these guidelines and standards when delivering products and materials to us.

■Important information

October 1, 2021
We revised "Green Procurement Guideline" to 4th edition and "Management Standard for Chemical Substances" to 18th edition. With this revision, other documents and files for supplier survey were also changed.

Main points of this revision are followings;

Green Procurement Guideline

1. Changed "The Environment-related Substances to be Controlled in Parts and Materials" from 40 to 46 groups
2. Changed the "Table 1. & 3." in response to the above

Please refer to Revision Records (V18.0) for more information.
The latest forms and tools for survey are available in this website.
We will ask you the details for survey request by e-mail.

Green Procurement Guideline (V4.0) [41 KB/PDF]
Revision Records (V4.0)[14 KB/PDF]
Management Standard for Chemical Substances (V18.0) [287 MB/PDF]
Revision Records (V18.0) [60 KB/PDF]

Request for cooperation in supplier surveys

We would like to ask suppliers to answer below four surveys to your parts and materials delivered to us. We will forward the survey request by email separately.

- Non-inclusion Warranty for Banned and Restricted Substances
- Non-use Certificate for Ozone-Depleting Substances in process*
- Non-use Certificate for Chlorinated Organic Solvent in process*
- Chemical Substances Survey(chemSHERPA, VT62474[ex JGPSSI], JAMP)

*Please submit only when we ask in our survey request

Survey tools

Please download the below files and use for your answer to supplier surveys.

Non-inclusion Warranty for Banned and Restricted Substances (V18.0) [70 KB/XLS]
Non-use Certificate for Ozone-Depleting Substances in process (V8.0)[84 KB/XLS]
Non-use Certificate for Chlorinated Organic Solvent in process (V8.0) [71 KB/XLS]
Guidance on Green Procurement Survey by using chemSHERPA [1 MB/PDF]

Notes on using survey tools

- Concerning format for chemical substances survey, we will make the shift to chemSHERPA from VT62474 and JAMP. For the transitional period, we will ask you to survey with designating format by e-mail.
- Please refer to tools and manuals in each website.

chemSHERPA
chemSHERPA video learning materials

Inquiries concerning green procurement

Contact office	Secretariat of environmental committee 5000, Hirakuchi, Hamakita-ku, Hamamatsu City, Shizuoka Pref.,434-8601, Japan Access >
Phone	(81)53-584-0268
Fax	(81)53-584-0276
E-mail	E-mail >

This is the primary contact information for green procurement between Hamamatsu Photonics and our suppliers. Please contact our sales office in your region for your inquiry about green procurement to our products.

Global organizations >

Management of chemicals in products

Compliance with regulations on chemicals in products ↓

Background and objectives ↓

Framework for advancement of green procurement ↓

Responding to regulations ↓

Our initiative on Mercury ↓

System of information about chemicals in products ↓

Status of handling of main restricted substances ↓

Future directions ↓

Compliance with regulations on chemicals in products

Since 2004, we have been managing chemical substances in products. We are committed to staying up to date with the latest information regarding chemicals through industrial associations and responding swiftly and appropriately to new regulations.

Background and objectives

It is universally understood that the regulation and management of chemicals is an integral part of the international background against which manufacturers operate. Strict compliance with such rules and regulations is essential for the continuation of business. The international management of chemicals dates to the adoption of the Rio Declaration and Agenda 21, at the 1992 United Nations Conference on Environment and Development (the "Earth Summit"). The events of the Earth Summit later led to the enactment in Europe of regulations on chemicals in products. Similarly, international treaties were concluded that prohibits the use of specified chemicals, taking a strategic approach to international chemical management. In Japan, efforts are under way to pass and overhaul laws to accord with laws overseas. To comply with these regulations on chemicals is a requirement of manufacturers in all markets.
Against this background, we at Hamamatsu Photonics are advancing management of chemicals in products based on Management of chemicals in products-Principles and guidelines, a JIS standard; and Guidelines for the management of chemicals in products, published by the Joint Article Management Promotion Consortium (JAMP). On this basis, we have established the Green Procurement Management Standard for Chemical Substances for HAMAMATSU Group. At the same time, we recognize that effective management of chemicals in products is impossible without a consistent framework imposed across the entire supply chain. For this reason our Green Procurement Policy requests that business partners implement their own systems for management of chemicals included in products.

Green procurement >

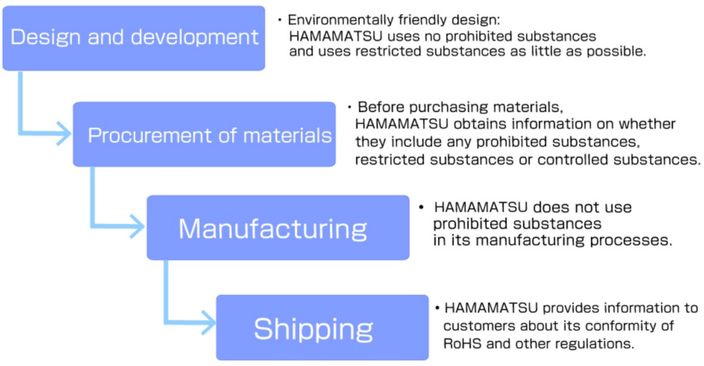
Framework for advancement of green procurement

At Hamamatsu Photonics, the task of responding to regulations on chemicals in products falls to the Headquarters Product Assessment Working Group, which is one of the Headquarters Environmental Working Groups within the Headquarters Environment Committee, the decision-making body of our environmental management system. The Headquarters Product Assessment Working Group is composed of the representatives of each business location of the Company as well as the Environment Committee Secretariats. For their part, similar Working Group are established at each business location, where they coordinate with the to frame specific regulatory responses at their locations.

Environmental management system >

Responding to regulations

Hamamatsu Photonics manages chemicals in products based on the Green Procurement Management Standard for Chemical Substances for HAMAMATSU Group. This management standard is applied consistently throughout the Company, governing all products, purchased materials and substances used in production processes. In preparing this standard and listing controlled substances, we referred to a number of international treaties, such as the Stockholm Convention on Persistent Organic Pollutants; international regulations, such as the RoHS and REACH directives in the European Union; and lists of controlled substances, such as IEC 62474. The inclusion and use of the chemicals in question are managed according to three levels: prohibited substances, restricted substances and controlled substances. To ensure that these criteria reflect updates to the related laws, they are reviewed regularly, and knowledge of any revisions is circulated by the Headquarters Environment Committee and through our environmental training programs.
Guided by the Green Procurement Management Standard for Chemical Substances for HAMAMATSU Group, we strive to reduce the environmental impact of the chemicals it uses at every stage. (Please refer to the illustration.)



The products are shipped in compliance with the requirements of each regulation.
The regulatory conformity check is conducted in cooperation with the Quality Control Committee. Products that have been verified are affixed with an environmental label indicating conformity, and a Declaration of Conformity is issued.

Our initiative on Mercury

This pertains to US Customer Only:
Hamamatsu Corporation Mercury Education Plan

Hamamatsu Corporation Mercury Education Plan is available by clicking the following title.

Hamamatsu Corporation Mercury Education Plan [50 KB/PDF]

System of information about chemicals in products

To confirm the status of chemicals in products and evaluate their compliance with regulations, Hamamatsu Photonics has introduced an information system for management of chemicals in products. This system centrally manages information on our products and information obtained from business partners about their materials. We use the system Company-wide to inform customers of the results of surveys and investigations and to manage documents to confirm compliance. This system enables comprehensive identification of chemical substance information contained in products. Moreover, it is also used to gradually reduce chemical substances restricted for use in products in accordance with future regulations. To make as many employees as possible familiar with the system, we conduct regular in-house training on its use. Today the system has over 500 users throughout Hamamatsu Photonics, in departments such as Quality Control, Production Management, Environmental Management and Material Management.

Status of handling of main restricted substances

Our Fundamental environmental policy is committed to compliance with domestic and international legal requirements related to regulated substances. The list of substances restricted for use based on our standards is posted and disclosed in the " Management Standard for Chemical Substances". The following is a list of major regulations and the status of compliance with those substances.

EU RoHS Directive
Compliance with the 10 restricted substances has been completed by July 2021 for the subject products, and we are supplying products that comply with the directives. We publish the status of RoHS compliance in its products on the Hamamatsu Photonics website, where anyone can confirm it at any time.

Search RoHS compliant products >

EU REACH regulation
We regularly collect information on substances of very high concern that need to be communicated in value chain, and communicate this information to our customers using the industry information communication format.

Green procurement activities >

Future directions

To continue to fulfill its social responsibilities in the environmental aspects in cooperation with its business partners, Hamamatsu Photonics intends to place priority on partnership with companies that respond effectively to regulations on chemicals included in products. Informed by the checksheet with the Guidelines for the management of chemicals in products published by JAMP, Hamamatsu Photonics conducts regular on-site checks of implementation by its business partners. If these checks indicate that improvements are required, we will ask those business partners to take action and will provide support for them in doing so.

Environmental communication activities

Agreed with the “Declaration of Biodiversity by Keidanren (Japan Business Federation) and Action Policy” ↓
Contributing to preservation of the regional environment ↓
Collection of used toothbrushes ↓

Agreed with the “Declaration of Biodiversity by Keidanren (Japan Business Federation) and Action Policy”

In January 2020, Hamamatsu Photonics agreed with the “Declaration of Biodiversity by Keidanren and Action Policy (Revised Edition)”.

Initiative based on the Declaration of Biodiversity by Keidanren

Contributing to preservation of the regional environment

Hamamatsu Photonics has always recognized the importance of a healthy and flourishing natural environment. As part of its efforts to promote a greener environment in the region, we carry out tree-planting activities. In addition, we are planting an acorn to make a forest on the company premises.

Clean-up activities in line with the Biodiversity Hamamatsu Strategy

As part of its efforts to preserve biodiversity, Hamamatsu Photonics participates in and publicizes the Hamamatsu Biodiversity Strategy, conducting environmental maintenance activities around its business locations and elsewhere in the city and prefecture. We participate in the annual “Lake Hamana Cleanup Campaign” etc, maintaining biodiversity in the region to preserve a flourishing natural environment for the future. In 2020, “Lake Hamana Cleanup Campaign” was canceled due to COVID-19, and other cleanup activities were canceled or scaled down. Taking measures against COVID-19, Hamamatsu Photonics conducted cleanup activities around its business locations 11 times, with 217 employees participating in total. In addition, we are planting an acorn to make a forest on the company premises.

Lake Hamana Cleanup Campaign(2019)

Cleanup campaign on the Toyoda River

Planting trees on the seawall

Flower-bed display by Hamamatsu businesses

Happy memorial trees

As part of its activities to promote biodiversity and raise awareness of environmental issues, in October 2011 Hamamatsu Photonics began distributing “Happy Memorial Trees” to employees who bought a house or were married. To further encourage employees to grow trees at home, in October 2014 we expanded the program to include employees who enrolled a child in primary school. This program has proven valuable in raising environmental awareness among employees and their families. The photos shown here were provided by employees in commemoration of tree planting. To date, 835 employees have applied for it since 2011.

Hamamatsu Photonics is committed to the beautification, maintenance and management of the environment. We plant trees on the grounds of each business location and create “green curtains” that flourish in the summer.

Collection of used toothbrushes

In FY2019 Hamamatsu Photonics began a program to collect used toothbrushes. An outside organization awards us points according to the amount of toothbrushes collected by weight; these points are then converted into funds contributed to activities in the community. Although this program has barely started, our employees have already contributed a total of 33 kg of used toothbrushes.