

# Environmental Management System

## Results in Acquiring Independent Certification

We acquired certification for our Kasashima site (Ishikawa prefecture) in October 1996, the month in which the ISO14001 Environmental Management System Standards were issued. After that, we expanded our certified sites. All sites and sales and maintenance service bases across Japan received certification by October 2008. In addition, an overseas affiliated company has also received certification in March 2010.

Because the Tokyo headquarters and the Tokyo Development Center were relocated to the newly-built Yokohama headquarters in October 2014, we acquired the certifications accordingly in March 2015.

October 1996: Kasashima site (Ishikawa)

May 2001: Headquarters/Ishikawa Development Center (Ishikawa), Tokyo Development Center (Tokyo)

April 2004: Tokyo Headquarters (Kanagawa)

February 2006: Kansai Branch (Osaka), Tokai Branch (Aichi), Shinbashi Service Center (Tokyo)

November 2006: ProDeS Center (Ishikawa), PFU Techno Wise Takamatsu Plant (Ishikawa)

October 2008: Sales and maintenance services in Japan (21 sites)

March 2010: PFU Shanghai (Shanghai, China)

March 2015: Yokohama Headquarters (Kanagawa) (Operations in the Tokyo Headquarters and Tokyo Development Center were combined)

April 2016: PFU Quality Service Limited (Kanagawa)

For this certification, all of the sites, the sales and maintenance service bases, and four affiliated companies located within the bases in Japan, as well as an overseas affiliate, which are listed above, are now registered as a multi-site system operating under one management system.

## E Environmental

The PFU Group as a whole is making advancements through environmental management system operations.



Ishikawa Headquarters



Yokohama Headquarters



ProDeS Center

## Contents of ISO14001 Certification

Scope of Certification: Design, development, manufacture, sales and maintenance of Hardware of Computer, Peripheral Device, Application Device and Software conducted in PFU Limited, PFU Quality Service Limited, PFU Techno Wise Limited, PFU Life Agency Limited, PFU Creative Services Limited, and PFU Shanghai Co., Ltd.

Certification Number: EC99J2029

Registration Date : October 29, 1996

Renewal Date : October 29, 2020

Issuance Date : September 30, 2020

Certifying Organization: Japan Audit and Certification Organization for Environment and Quality (JACO)



S Sustainability

E Environmental

S Social

G Governance

# PFU Environmental Charter/Environmental Policy

**PFU Environmental Charter**  
(Sixth edition)  
Revised on August 1, 2020  
PFU Limited

This charter, derivative norms of PFU Way, is established to ensure the thorough and implementation of "Directionality" "Sense of Values" and "Code of Conduct" which are common to all PFU Group companies.

**Our Vision**  
"Providing value to the customers as their premier Edge Solution Partner"

**Our Values**  
"(3) We will solve social issues through co-creation activities"  
We will grow together with our customers and our partners with high technology and aspirations and create businesses that will dramatically change the world. We will contribute to the realization of a sustainable society through co-creation activities.

**Code of Conduct Regarding Environment**  
The PFU Group members deem contribution to the sustainability of the earth to be one of the social responsibilities of a business, and will act with an awareness that they are living thanks to the blessing of the earth and with an awareness for the environment.

**Perspectives of Efforts for Environment**  
With the aim to transform ourselves into "a premier Edge Solution Partner who provides value to customers", we will take action from the three perspectives of "Solution", "Process", and "Mind" to promote our business in a sustainable way that realizes both the solving of social issues and economic growth.

- i. **Solution** Create and provide products and services that solve issues of customers on-site or of society
- ii. **Process** Transform the style of operations at our sites into a more sustainable one
- iii. **Mind** Create an environment that improves productivity of diverse employees/Improve management ability

PFU Environmental Charter  
Sixth edition Revised on August 1, 2020  
Fifth edition Revised on June 9, 2020  
Fourth edition Revised on May 16, 2016  
Third edition Revised on November 19, 2002  
Second edition Revised on March 31, 1995  
First edition Established in July 1993

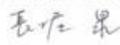
PFU Limited  
The Office: Sustainability Promotion Department, Business Strategy Office

**Environmental Policy**

The PFU Group aims to become a solution partner that will open the way to the future by using edge technology to resolve issues in any environments (where digital and analog data are interrelated) for our customers.

1. We shall contribute to resolving social issues as an edge solution partner that provides values in any environments for our customers.
  - (1) Industry and technological innovation (Green Solution)
    - Continuous creation and provision of eco-efficient products
    - Promotion of environmentally conscious solutions and services
    - Promotion of green procurement
  - (2) Job satisfaction, economic growth, and climate control (Green Process)
    - Improvement of quality and enhancement of business efficiency
    - Promotion of global warming countermeasures
  - (3) Partnership (Green Mind)
    - Promotion of an environmentally conscious culture
2. We shall comply with all applicable environmental laws and regulations, as well as any other standards that we have decided to adopt. Furthermore we shall prevent pollution by establishing our own standards and appropriately managing environmental facilities, related equipment and harmful chemical substances.
3. We shall establish an Environmental Management System in compliance with ISO14001, and promote environmentally conscious business development, all the while continually improving an Environmental Management System to better conserve the environment for improvement of Environmental Performance.
4. We shall endeavor to raise all of our employees understanding of our environmental activities, and improve their environmental awareness through environmental education, advertising, and social contribution activities. In addition, we will endeavor to work on global environmental conservation such as tackling climate change and conservation of biodiversity through our business and civic activities to be role models in society.
5. To promote this environmental policy, we shall establish firm targets and implement effective plans for their achievement.

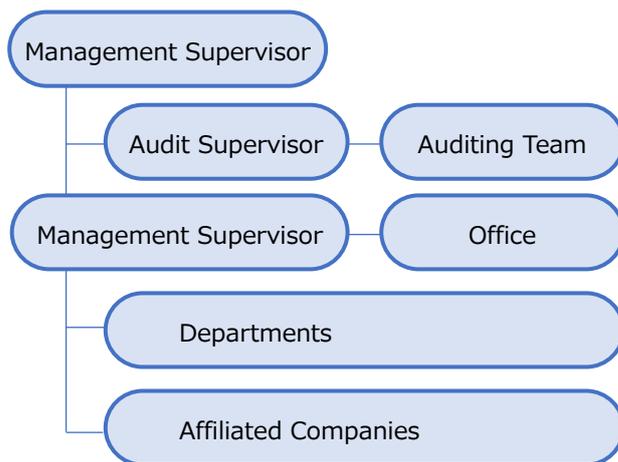
April 2021  
PFU Limited

President and Representative Director  

Corporate Senior Vice President  


This environmental policy is disclosed to the public.

## Environmental Management Framework

### <EMS Organization>



## <Organizations in Charge>



# PFU Environmental Action Plan

We have established the Ninth Environmental Action Plan (Fiscal 2019 - Fiscal 2021) and are already working towards it.

Activity		Details		Results from fiscal 2019	Results from fiscal 2020	Targets for fiscal 2021	
Green Solution	1	Continuous Creation and Provision of Eco-efficient Products	To produce products with top-level energy efficiency	Scanner products	Product compliance with the International ENERGY STAR Program Ver.2.0/3.0: 100%	Product compliance with the International ENERGY STAR Program Ver.3.0: 100%	Product compliance with the International ENERGY STAR Program Ver.3.0: 100%
				Embedded computer products	Environmental performance index: 5.19	Environmental performance index: 4.94	Environmental performance index: 4.74 or less
					Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 5.6 tons of CO <sub>2</sub>	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 5,726 tons of CO <sub>2</sub>	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 6,500 tons of CO <sub>2</sub> or more
				Interactive KIOSKS	Environmental performance index: 17.52	Environmental performance index: 16.69	Environmental performance index: 16.6 or less
					Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 1,876 tons of CO <sub>2</sub>	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 1,970 tons of CO <sub>2</sub>	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 1,722 tons of CO <sub>2</sub> or more
				Security products	Environmental performance index: 1.66	Environmental performance index: 1.35	Environmental performance index: 1.286 or less
					Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 785 tons of CO <sub>2</sub>	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 773 tons of CO <sub>2</sub>	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 841 tons of CO <sub>2</sub> or more
				Solutions	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 6,021 tons of CO <sub>2</sub>	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 5,491 tons of CO <sub>2</sub>	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 5,491 tons of CO <sub>2</sub> or more
				Customer services	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 34.1 tons of CO <sub>2</sub>	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 44.2 tons of CO <sub>2</sub>	-
				To comply with environmental labels (EPEAT)		Acquisition of EPEAT: 100%	Acquisition of EPEAT: 100%
2	Promotion of Environmentally Conscious Solutions and Services	To reduce our customers' environmental burden by expanding our environmentally conscious solutions and services	At least one suggestion per department (20 out of 21 departments)	At least one suggestion per department (19 out of 19 departments)	At least one suggestion per department (9 departments)		
3	Promotion of Green Procurement	To promote procurement from suppliers that work aggressively in consideration of the environment	Promotion of activities to reduce CO <sub>2</sub> and to preserve water resources to the upper stream in the supply chain: 100% understanding of business partners' activities	Promotion of activities to reduce CO <sub>2</sub> and to preserve water resources to the upper stream in the supply chain: 100% understanding of business partners' activities	Promotion of activities to reduce CO <sub>2</sub> and to preserve water resources to the upper stream in the supply chain: 100% understanding of business partners' activities		

Green Process	4	Improvement of Quality and Enhancement of Business Efficiency	To reduce the burden on the environment with improved business operations	(40 out of 42 departments)	(41 out of 45 departments)	At least one suggestion per department (32 departments)
	5	Promotion of Global Warming Countermeasures	To cut the amount of energy consumption.	Crude oil conversion value: 3,198 kL	Crude oil conversion value: 3,235 kL	Crude oil conversion value: 3,224 kL
Green Mind	6	Promotion of an Environmentally Conscious Culture	To promote the protection of the environment through not only environmental and social contribution activities and biodiversity conservation activities, but also through sharing environmental activity information and improving operation	Promotion of social contribution activities (21 projects)	Promotion of social contribution activities (15 projects)	Promotion of social contribution activities (20 projects)
				Promotion of the sharing/transmitting of environmental information and improving operation of environmental activities (37 projects)	Promotion of the sharing/transmitting of environmental information and improving operation of environmental activities (38 projects)	Promotion of the sharing/transmitting of information about SDGs and improving operation of environmental activities (43 projects)
				Continuous improvement of the management system (1 project)	Continuous improvement of the management system (1 project)	Continuous improvement of the management system (1 project)

The environmental performance index is calculated by the amount of power consumed per product and the number of shipments.

The amount of reduction in CO<sub>2</sub> emissions at customers' sites are calculated from the number of solutions and services provided.

## Results from Activities in Fiscal 2020

During fiscal 2020, the second year of the Ninth Environmental Action Plan (Fiscal 2019 - Fiscal 2021), we pursued 17 environmental targets and achieved 15 of them.

✓: Target Achieved -: Target Not Achieved

Activity	Details	Fiscal 2020				
		Target	Result	Evaluation		
Green Solution	1 Continuous Creation and Provision of Eco-efficient Products	To produce products with top-level energy efficiency	Scanner products	Product compliance with the International ENERGY STAR Program Ver. 3.0: 100% (sum of 5 models)	Product compliance with the International ENERGY STAR Program Ver. 3.0: 100% (sum of 5 models)	✓
			Embedded computer products	Environmental performance index: 4.98 or less	Environmental performance index: 4.94	✓
				Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 5,000 tons of CO <sub>2</sub> or more	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 5,726 tons of CO <sub>2</sub>	✓
			Interactive KIOSKs	Environmental performance index: 18.41 or less	Environmental performance index: 16.69	✓
				Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 1,950 tons of CO <sub>2</sub> or more	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 1,970 tons of CO <sub>2</sub>	✓
			Security products	Environmental performance index: 1.42 or less	Environmental performance index: 1.35	✓
				Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 790 tons of CO <sub>2</sub> or more	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 773 tons of CO <sub>2</sub>	-
			Solutions	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 4,250 tons of CO <sub>2</sub> or more	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 5,491 tons of CO <sub>2</sub>	✓
			Customer services	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 32.2 tons of CO <sub>2</sub> or more	Amount of reduction in CO <sub>2</sub> emissions at our customers' sites: 44.2 tons of CO <sub>2</sub>	✓
			To comply with environmental labels (to acquire EPEAT)	Acquisition of EPEAT 100% (sum of 2 models)	Acquisition of EPEAT: 100% (2 models)	✓
2 Promotion of Environmentally Conscious Solutions and Services	To reduce our customers' environmental burden by expanding our environmentally conscious solutions and services	Achieving at least one target per department (19 departments)	Achieving at least one target in all departments (19 departments)	✓		
3 Promotion of Green Procurement	To promote procurement from suppliers that work aggressively in consideration of the environment	Promotion of activities to reduce CO <sub>2</sub> and to preserve water resources to the upper stream in the supply chain: 100% understanding of business partners' activities (64 partners)	Promotion of activities to reduce CO <sub>2</sub> and to preserve water resources to the upper stream in the supply chain: 100% understanding of business partners' activities (64 partners)	✓		

Green Process	4	Improvement of Quality and Enhancement of Business Efficiency	To promote improved business operations (to reduce the burden on the environment with improved business operations in areas such as quality and efficiency)	Achieving at least one target per department (45 departments)	Achieved by 41 departments Not achieved by four departments	-
	5	Promotion of Global Warming Countermeasures	To cut the amount of energy consumption (Purchased electricity and gas are converted into crude oil)	Crude oil conversion value: 3,258 kL or less	Crude oil conversion value: 3,235 kL	✓
Green Mind	6	Promotion of an Environmentally Consciously Culture	To promote the protection of the environment through not only environmental and social contribution activities and biodiversity conservation activities, but also through sharing environmental activity information and improving operation	Promotion of social contribution activities: 15 projects	Promotion of social contribution activities: 15 projects	✓
				Promotion of the sharing/transmitting of environmental information and improving operation of environmental activities: 38 projects	Promotion of the sharing/transmitting of environmental information and improving operation of environmental activities: 38 projects	✓
				Continuous improvement of the management system	Completion of continuous improvement of the management system	✓

## Eco-efficient Products

We make efforts to develop and provide eco-efficient products that support "energy-saving", "3R design (\*1)", and "management of used chemical substances" in order to reduce the burden on the environment throughout the product's entire life cycle. In fiscal 2020, in order to contribute to reducing the environmental burden at our customers' sites by releasing more products with advanced environmental performance, we engaged in activities setting the improvement of environmental performance as an environmental target for products, solutions, and services in all our business departments and promoted the development and provision of eco-efficient products.

### Main Achievements of Fiscal 2020

Producing products with top-level energy efficiency	Scanner products	As planned, we complied with the International ENERGY STAR Program Ver. 3.0 for a sum of 5 newly-developed models.
	Embedded computer products	To make environmental contributions, we made efforts to develop better products by improving the environmental contribution indexes that we defined based on our own standards. We have also made efforts to reduce the environmental burden at our customers' sites by providing our products for customers.
	Interactive KIOSKs	To make environmental contributions, we made efforts to develop better products by improving the environmental contribution indexes that we defined based on our own standards. We have also made efforts to reduce the environmental burden at our customers' sites by providing our products for customers.
	Security products	To make environmental contributions, we made efforts to develop better products by improving the environmental contribution indexes that we defined based on our own standards. We have also made efforts to reduce the environmental burden at our customers' sites by providing our products for customers.
	Solutions	We have made efforts to reduce environmental burden at our customers' sites by providing our solutions for the customers.
	Customer services	We have made efforts to reduce environmental burden at our customers' sites by providing our services for the customers.
Complying with environmental labels	Scanner products	As planned, we acquired certification for a sum of 2 new models that are to be expanded to North America, for EPEAT (Electronic Product Environmental Assessment Tool), an environmental evaluation system for electronic products adapted as a system for promoting green purchasing, primarily in organizations related to the American government.
		As our environmentally conscious activities, such as 3R design and energy-saving functions became recognized, a sum of 2 new models received Eco Mark certification.

(\*1) 3R design: Design in which the concepts of "Reduce", "Reuse", and "Recycle" are taken into consideration.

## Main Eco-efficient Products for Fiscal 2020

We contribute to reducing the burden on the environment from our customers' business by offering products that comply with the Act on Promoting Green Procurement with energy-saving and 3R design features, and furthermore that comply with various environmental standards. Information about the compliance of our scanners with environmental standards is published on our official company website.



ScanSnap iX1600



ScanSnap iX1400

- Product compliance with the Act on Promoting Green Procurement
- Product compliance with the International ENERGY STAR Program Ver. 3.0  
Power consumption during sleep mode:  
iX1600 1.6 W or less  
iX1400 1.5 W or less
- Eco Mark certified product (17 155 060)
- Product compliance with chemical substance regulations (RoHS Directive, REACH Regulation, etc.)



Information for EPEAT 4.7.2.2: [Public disclosure of supply chain toxics](#)

## Environmentally Conscious Solutions and Services

We provide environmentally conscious solutions and services that contribute to reducing the burden on the environment from our customers' business, such as energy conservation and paperless work, through more efficient business, reduced consumption, reduced movement, and efficient use of space. In fiscal 2020, we moved forward with the activities that contribute to reducing the environmental burden on our customers, such as developing and shipping various solutions and services, and expanding the provision of solutions and services that utilize scanners.

### Main Achievements of Fiscal 2020

Reducing our customers' environmental burden by expanding our environmentally conscious solutions and services	Activity	Product
	<ul style="list-style-type: none"> <li>Development and shipment of environmentally conscious solutions</li> <li>Expansion of the provision of solutions and services that utilize scanners</li> <li>Promotion of virtualization, cloud negotiation, etc.</li> </ul>	<ul style="list-style-type: none"> <li>DynaEye form OCR</li> <li>BIP Smart</li> <li>PaperStream Capture</li> </ul>

### • Digitalization Solutions for Transactional Documents

"Seals and papers" hinder the efficiency of all kinds of work both within and beyond a company. Our solution is to support the efficiency of our customers' business by reevaluating transactions and business operations that use "seals and papers" through the many possible applications of PFU services.

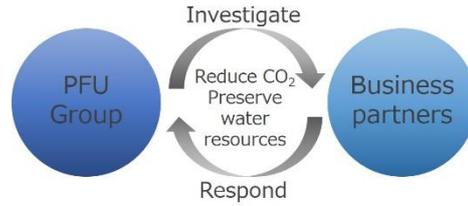
Telework has become the new normal and continues to spread, but paperwork such as the stamping of contracts and payment processing of invoices received by postal mail presents obstacles.

Through the support of multiple transfer methods for transactions and the collective digital management of transactional documents, it becomes possible to do work without "seals" and "papers" and to enable contracts and digital transactions without seals, while also respecting the need to preserve evidence.



## Green Procurement

To provide eco-efficient products, we established "PFU Group Green Procurement Direction", which specifies basic requirements for our suppliers, and we promote environmental activities together with our suppliers. In fiscal 2020, we promoted activities to reduce CO<sub>2</sub> and to preserve water resources to the upper stream in the supply chain for target business partners, and gained an understanding of the activities of all business partners.



### Main Achievements of Fiscal 2020

Promotion of procurement from suppliers that work aggressively in consideration of the environment	Promotion of activities to reduce CO <sub>2</sub> and to preserve water resources to the upper stream in the supply chain (21 new companies + 43 existing companies = 64 companies: 100%)
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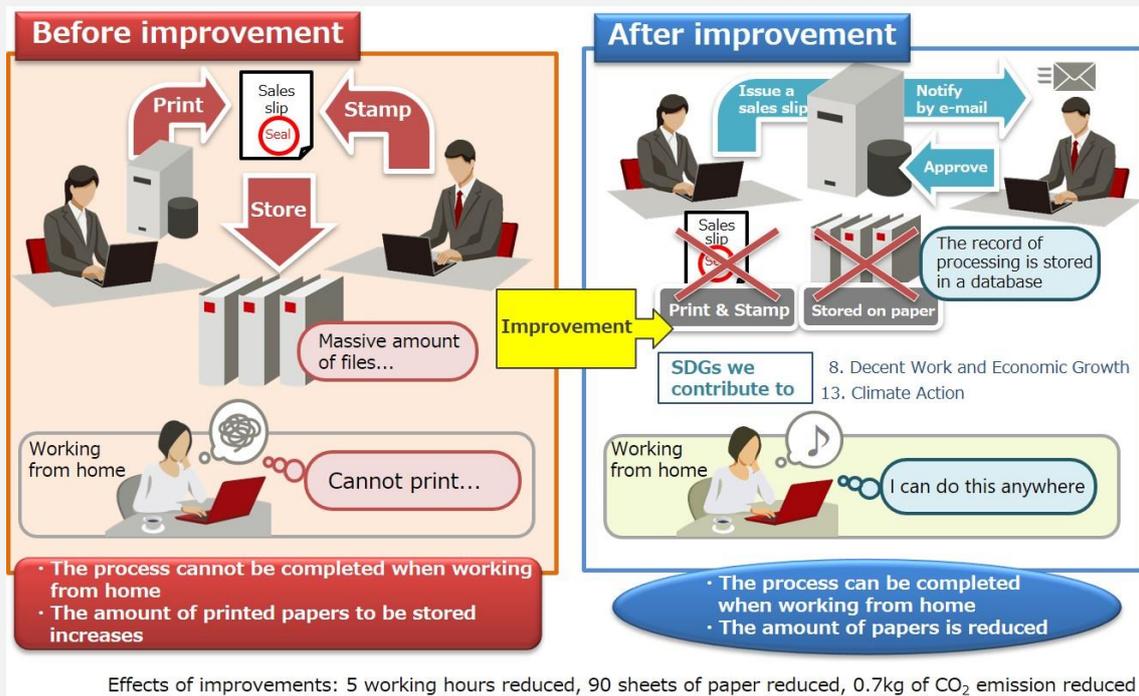
## Improvement of Quality and Enhancement of Business Efficiency

Even in in-house work, we promote the reduction of the environmental burden through the enhancement of business efficiency and the improvement of quality using IT, which leads to promoting environmental activities that are focused on our core business. Activities for enhancements are shared as Idea Snap Activities (in-house improvement activities). To promote spreading the activities throughout the company, examples are regularly introduced.

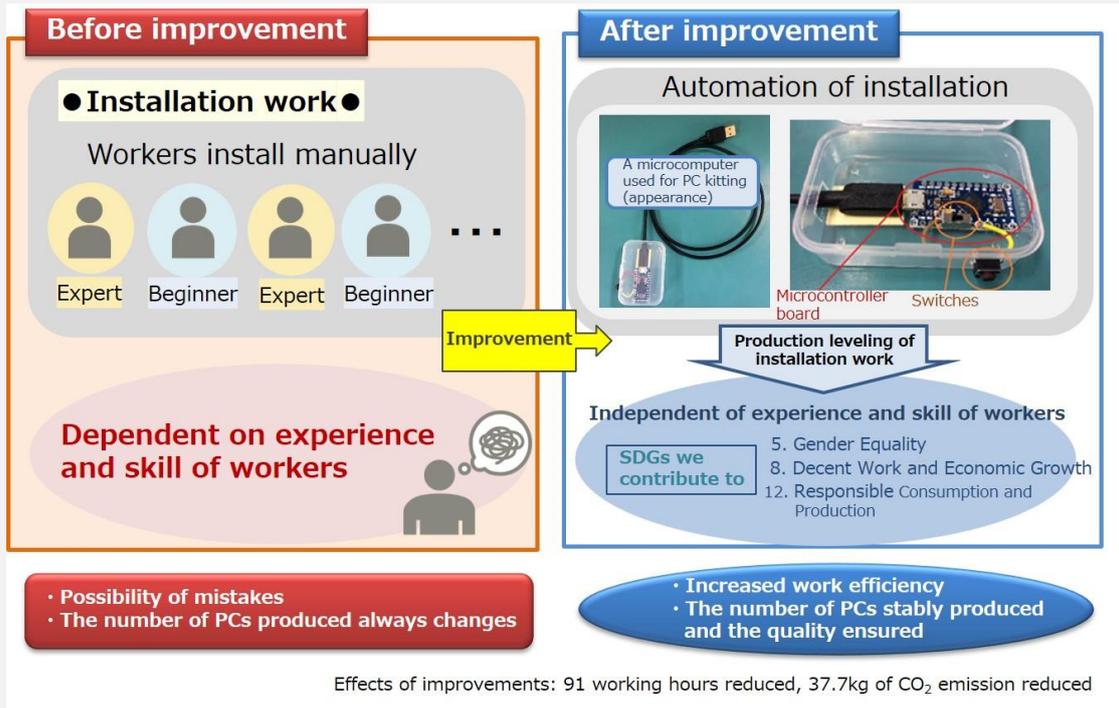
In fiscal 2020, we made our environmental targets consistent with our quality targets and promoted the reduction of the environmental burden by improving the quality, efficiency, and delivery time for our core business, including product development and in-house business related to provision of products, solutions, and services, as well as other activities.

### Examples of Improvements in Fiscal 2020

#### • Paperless Management of Order and Sales Forms



• Improved Efficiency of Installation Work for PC Kitting Process

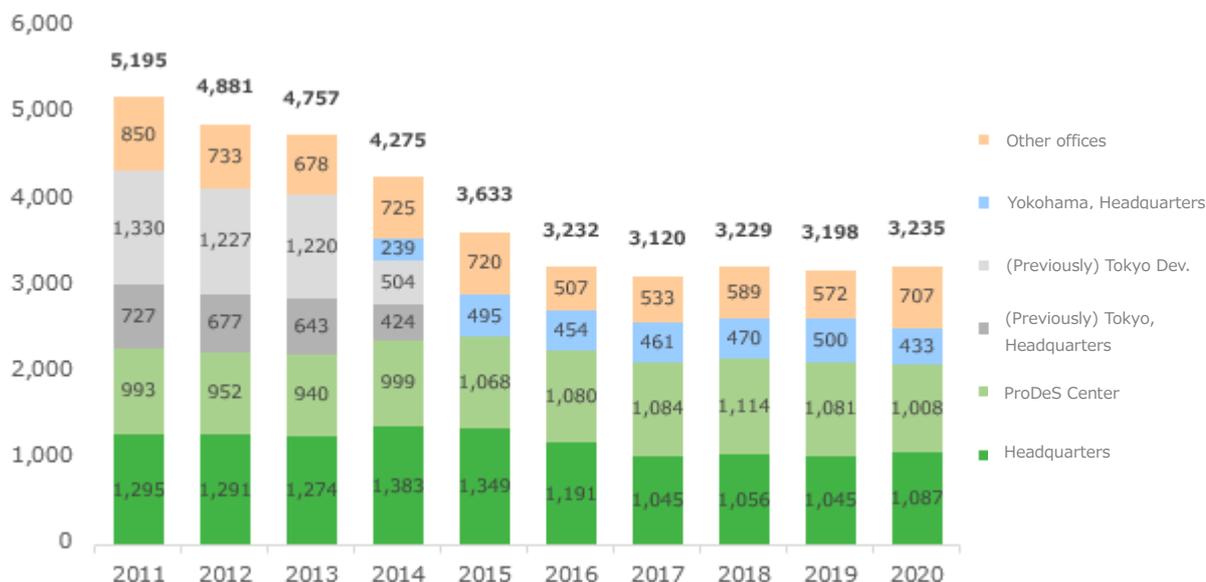


## Global Warming Countermeasures

To prevent global warming, we engage in energy-saving and power-saving activities to reduce the amount of energy consumption. (\*2)

In fiscal 2020, we have made efforts such as enhancing the effects of power-saving by introducing a power-saving device at the ProDeS Center and installing insulated glass at the Shinbashi Service Center.

### Trends in Energy Consumption (Crude Oil Conversion Value: kL)



(\*2) Amount of consumption of purchased electricity, gas, and heat, converted into crude oil (kL)

### Energy-saving Effects of Updated Facilities (ProDeS Center)

At the ProDeS Center (Bld. A & B), the transition to LED light is complete, and when combined with updated air conditioning units, we achieved a successful 10% reduction in electric power compared to results from the previous year.

Installation Location	ProDeS Center (Bld. A & B)
Start of Operation	August 2020
Reduction in Electric Power	-347,000 kWh (-48%, compared to the amount of power consumption before the devices were installed)

Installation Location	ProDeS Center (Bld. A)
Start of Operation	April 2020
Reduction in Electric Power	-86,000 kWh (-11%, compared to the amount of power consumption before the devices were installed)



## Efforts for a Wider Dissemination of Renewable Energy

PFU will contribute to a wider dissemination of renewable energy as a company of the Fujitsu Group that has joined RE100 (Note 3) as a Gold Member.

[Fiscal 2020: Amount of purchased green power: 10,000 kWh]



(Note 3) RE100 is convened by the Climate Group in partnership with CDP.

In Japan, as a regional partner, the Japan Climate Leaders' Partnership (JCLP) has helped Japanese companies join RE100 since April 2017.

## Environmentally Conscious Culture

Our Group workers promote the protection of the environment through environmental and social contribution activities and biodiversity conservation activities, by entering into a contract and working together with the community and the local government around the company sites. In 2020, to prevent the spread of the coronavirus, some regularly held annual events were canceled, but we participated in events such as tree-planting activities in the reclaimed land in the Kahoku Lagoon and Hama Road Supporter activities.

### List of Main Activities

No.	Event name	Date	Implemented at:
1	Green Fund donation	May 31, 2020	Ishikawa
2	Turning the Lights Off	June 21, 2020	All offices/locations
3	Displaying Certificate of Green Power (at PFU Digital Fair)	June 25, 2020	On the web
4	Creation workshop (distribution of environment leaflets)	August 1, 2020 to August 2, 2020	Ishikawa
5	Cutting grass around the PFU Techno Wise Takamatsu Plant	October 8, 2020	Ishikawa
6	Hama Road Supporter activities	November 11, 2020	Yokohama Headquarters
7	Plantation of nandina saplings	December 10, 2020	Ishikawa
8	Displaying Certificate of Green Power (at PFU Charity Concert)	December 5, 2020	On the web
9	Use of local ingredients in the company cafeteria	July 2020 to December 2020	Ishikawa
10	Tree-planting activities of trees to block out wind on the Kahoku Lagoon reclaimed land	March 13, 2021	Ishikawa
11	Collection of plastic bottle caps	All year	All the sites in the nation
12	Collection of used disposable wooden chopsticks	All year	Tokai Branch
13	Conversion of food residue into fertilizer	All year	Ishikawa
14	Social contribution through sports	All year	Ishikawa, all sites in the nation
15	Support for regional education	All year	Ishikawa

### Volunteer Activities for Kahoku Lagoon Reclaimed Land

In March 2007, we entered into a contract to take part in voluntary activities such as weeding and beautification of the environment to help maintain the beauty of the reclaimed land in the Kahoku Lagoon (in Kahoku) and the function of its agricultural facilities, as private company No. 1 for the Kahoku Lagoon reclaimed land Improvement Area and Kahoku Lagoon reclaimed land Periphery Improvement Area. In accordance with this contract, we will also join in the activity of planting trees to block out wind in March 2021.



Tree-planting activities on the Kahoku Lagoon reclaimed land

### Green Fund Donation and Plantation of Nandina Saplings

Every year we donate to the "Green Fund", and we plant the saplings we are gifted in return on the grounds of our headquarters. The purpose of the Green Fund is to plant trees, protect forests against droughts and other problems, educate children about forests and the environment, help with African green belt restoration activities, and more.



Plantation of nandina saplings

### Local Environment Beautification Activities

As part of our CSR activities and environmental activities, we participated in the Hama Road Supporter activities sponsored by Yokohama City at the Yokohama Headquarters.

As a group company initiative, employees at PFU Techno Wise cut grass around the Takamatsu plant (in Kahoku) in October.



Hama Road Supporter activities

### Food residue recycling

We continuously achieved zero waste emissions by switching food residue recycling from the in-house food recycling system to the regional food recycling system (outsourced with an outside vendor) in the community.



Reducing Food Waste by Using a Food Recycling System

# Environmental Awareness & Communication

We strive to increase our employees' environmental awareness through efforts such as holding environmental facility tours and sharing environmental information. We also respond to inquiries about the environment from our customers.

## First Online "Environmental Facility Tour for Employees"

On June 19th, we held an online "environmental facility tour for employees" as one of the events for Environment Month. The tour of facilities and equipment related to energy and waste at PFU provided an opportunity for the 34 participants to get a deeper understanding of how these related to everyday work.



### ■Toured Company Environmental Facilities:

Cleaning center, emergency-use electric generators, outdoor air conditioning units, PCB waste management facility, lead-acid battery management facility

## PFU Creation Workshop 2020

On August 1st and 2nd, we held this event in collaboration with the Kahoku educational committee's "Kahoku Shimin Daigakko" (lifelong learning activities for Kahoku residents). Due to social distancing, the number of people allowed to participate was lower than normal years, but 20 groups including people from Kahoku city and our company employees and their families participated. The aim of these activities is to cultivate the next generation in the community. We held this event for the 12th time this year.



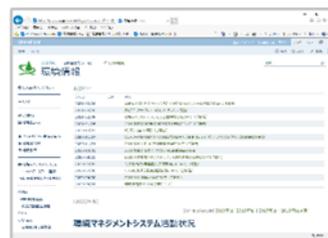
## Collection of plastic bottle caps

We contributed to the reduction of waste emissions by donating plastic bottle caps. (Implemented at: Headquarters, ProDeS Center, Yokohama Headquarters, Kansai Branch/Tokai Branch/Shinbashi Service Center, service bases, etc.) [Fiscal 2020: 260,456 bottle caps (weight : 595.7 kg)]

## Sharing Environmental Information

Our company now presents information related to environmental activities, introduces the environmental activities of each department, and covers current topics, event information, and environmental news on our in-house intranet.

Also, in "Idea Snap Activities", which allow for improvement activities to be shared throughout the company, we are showing the environmental effect of reducing the amount of paper or electricity used. We are trying to enhance the motivation for improvements among our employees by regularly making an honorable recognition of good proposals.



Portal site for environmental information for employees



Idea Snap Website

### Requests and Inquiries from Outside Our Company

In fiscal 2020, we responded to 207 requests and inquiries, such as questionnaires and survey requests regarding the environment submitted to our company by customers, the government, industrial groups, and others. There were no environmental claims.

	Requests and Inquiries	Number of Requests
1	Requests about products and services (Example: Request for REACH/RoHS surveys, survey on the use of chemical substances specified by a customer, etc.)	119
2	Requests other than those related to products (Example: Request for provision of data about the environment from customers, the government, industry organizations, etc.)	87
	Total	206

# Sharing Environmental Information

We transmit and introduce "information about eco-efficient products" and "environmental activities" via our official website and at events.

## Environmental Report

Since 1994, we have been issuing an annual environmental report as the "PFU Environmental Report" (and the English version since 2003). From 2021, we are issuing it as the "Sustainability Report". We publish this information on our website. In addition to this report, we also share the latest information about eco-efficient products on our official website.



## Showroom

We set up showrooms at our main sites in Japan to display our eco-efficient products, such as scanners and embedded computer products, and other environmentally conscious solutions.



Headquarters      Yokohama Headquarters

## Participation in Exhibitions

Every year, we participate in environmental exhibitions to introduce our eco-efficient products and environmental activities.

We exhibited our eco-efficient products and solutions at the "PFU Digital Fair 2020" (held online), where we exhibit our latest technology and products. In the NEW Environmental Exposition, we gave a presentation that focused on projects for new types of business, starting with an AI device that automatically separates recyclable waste.



Exhibiting eco-efficient products and solutions (PFU Digital Fair 2020)

## Use of Green Power at Exhibitions and Events

At the "PFU Digital Fair 2020" (held online from June 25th to July 31st) and at the "PFU Christmas Charity Concert" (held in Kanazawa and online on December 9th), we contributed to spreading the use of natural energy in the nation and mitigating global warming by using renewable energy from wind power to supply the equipment in the venues with electricity.



本イベントで使用する電力のうち  
1,000KWhを風力発電による自然エネルギーでまかっています。

Notice of Green Power  
(PFU Christmas Charity Concert)

# Environmental Performance Data

## Environmental Accounting

To quantify the costs and benefits of environmental conservation and evaluate environment investment and its benefits, "Environmental Accounting" was introduced in fiscal 1999. In fiscal 2020, this accounting method was applied to seven of our business sites in Japan (Headquarters, Yokohama Headquarters, ProDeS Center, Kansai Branch, Tokai Branch, Shinbashi Service Center, and PFU Quality Service).

Breakdown of environmental accounting results for fiscal 2020 (April 1, 2020 to March 31, 2021) (Unit: One million yen)

Item		Main Scope	Capital Investments	Costs	Benefits
Business area	Pollution prevention costs/benefits	Air pollution prevention, water pollution prevention, etc.	0 (±0)	6 (-1)	0 (±0)
	Global environmental conservation costs/benefits	Global warming prevention, energy-saving, etc.	209 (+209)	280 (+217)	9 (-3)
	Resource recycling costs/benefits	Disposal of waste and effective use of resources, etc.	0 (±0)	20 (-26)	5 (-3)
Upstream/downstream costs/benefits		Collection/recycling/re-merchandising of products, etc.	0 (±0)	0 (±0)	2 (-1)
Management costs/benefits		Maintenance/operation of the Environmental Management System, environmental education for employees, etc.	0 (±0)	67 (+8)	81 (-5)
R&D costs/benefits		R&D for products/solutions that contribute to environmental conservation, etc.	0 (±0)	238 (-5)	1,288 (-115)
Social activities costs/benefits		Contributions/support for organizations involved in environmental conservation, etc.	0 (±0)	0 (±0)	0 (±0)
Costs/benefits to repair environmental damage		Repairs involved in soil/ground water pollution, etc.	0 (±0)	0 (±0)	0 (±0)
Total			0 (+209)	611 (+193)	1,385 (-127)

Numbers in parentheses ( ) are comparisons with the previous fiscal year.

## Costs and Benefits of Fiscal 2020

After tallying fiscal 2020, we see that costs increased to 611 million yen (+46% compared to the previous fiscal year), and benefits decreased to 1.385 billion yen (-8% compared to the previous fiscal year).

In fiscal 2020, as capital investments in regard to the conservation of the environment at the ProDeS Center, we upgraded to highly efficient air conditioning equipment and switched to LED light fixtures.

## Environmental Conservation

In order to conserve the environment surrounding our sites and comply with the regulations, we perform ongoing management of our facilities, as well as properly manage chemical substances to prevent pollution.

Also, we regularly monitor the burden on the environment from our sites by assessing the actual amount of greenhouse gases, waste material, and water resources emitted/used in business.

### Proper Handling of Chemical Substances

We tally the amount of chemical substances that are used for purposes such as designing, developing, evaluating, manufacturing, maintaining, or cleaning up the premises no matter how much there is.

### Chemical Substances Subject to PRTR Law

The amount of chemical substances subject to the PRTR law that were handled in fiscal 2020 is shown below. None of the chemical substances were in excess of the annual values which require the relevant prefectural authorities to be notified (\*4).

Furthermore, no Special Class I Specified Chemical Substances were handled.

We set a goal to limit the amount we handle to less than the average of fiscal years 2012 to 2014, which was 0.132 tons. Our actual results from fiscal 2020 were 0.136 tons (+3%).

### Annual Handled Amount of Chemical Substances Subject to the PRTR Law (Class I Specified Chemical Substances)

(Tons)

Chemical Substance Name	Fiscal 2016	Fiscal 2017	Fiscal 2018	Fiscal 2019	Fiscal 2020
sodium linear alkylbenzenesulfonate	0.007	0.007	0.034	0.031	0.044
Silver and its water-soluble compounds	0.022	0.027	0.028	0.039	0.031
2-aminoethanol	0.003	0.004	0.021	0.026	0.027
Poly (oxyethylene) alkyl ether	0.017	0.015	0.021	0.022	0.022
Sodium dodecyl ether sulfate	0.011	0.012	0.002	0.001	0.006
Toluene	0.000	0.000	0.000	0.000	0.003
n-Hexane	0.001	0.001	0.001	0.001	0.001
2,6-Di-tert-butyl-4-cresol	0.000	0.000	0.000	0.000	0.001
Lead and its compounds	0.001	0.003	0.008	0.000	0.000
Mecoprop	0.000	0.000	0.002	0.001	0.000
Other	0.010	0.017	0.003	0.002	0.001
Total	0.127	0.137	0.135	0.123	0.136

(\*4) 1 ton or more per year for Class I Specified Chemical Substances, 0.5 tons or more per year for Special Class I Specified Chemical Substances.

### VOC (Volatile Organic Compound)

Although there are no specific facilities that are subject to VOC emission control, we make an independent effort to maintain and manage the amount of VOCs handled.

We set a goal to limit the amount we handle to less than the average of fiscal years 2012 to 2014, which was 1.266 tons. Our actual results from fiscal 2020 were 0.685 tons (-46%).

### Annual Amount of VOC Handled

(Tons)

Chemical Substance Name	Fiscal 2016	Fiscal 2017	Fiscal 2018	Fiscal 2019	Fiscal 2020
Isopropyl alcohol	0.768	0.789	0.746	0.555	0.525
Ethanol	0.280	0.336	0.150	0.134	0.097
Butyl acetate	0.051	0.056	0.056	0.066	0.046
Other	0.201	0.108	0.030	0.043	0.017
Total	1.300	1.289	0.982	0.798	0.685

## Greenhouse Gases

The amount of greenhouse gases other than CO<sub>2</sub> that were handled in fiscal 2020 is shown below. The annual amount handled in fiscal 2020 is converted to a CO<sub>2</sub> equivalent weight of approximately 12 tons, and is equivalent to approximately 0.2% of emissions from all our sites (5,921 tons).

Our reduction target for the amount (tons) of greenhouse gas emissions handled applies to reduction at all our sites.

### Annual amount of greenhouse gases handled (Converted to CO<sub>2</sub>)

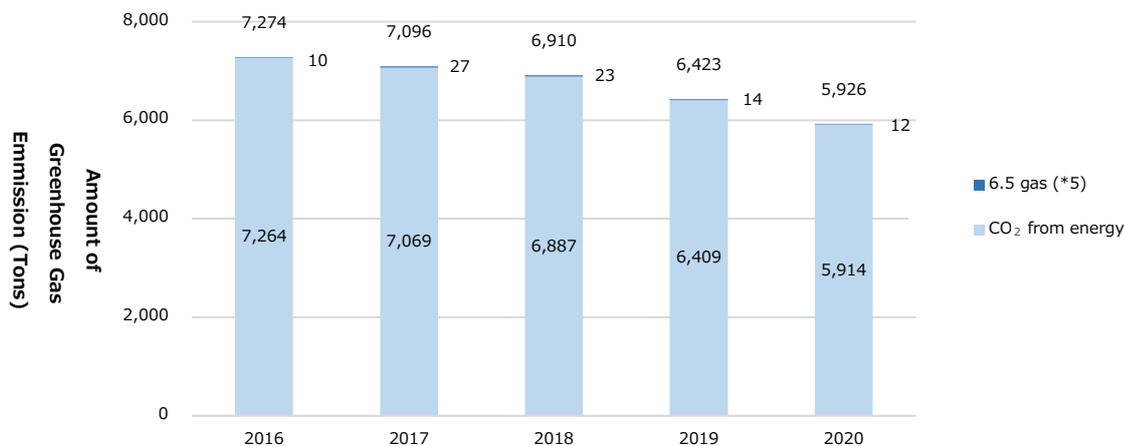
(Tons)

Chemical Substance Name	Fiscal 2016	Fiscal 2017	Fiscal 2018	Fiscal 2019	Fiscal 2020
1,1,1,2-tetrafluoroethane (HFC-134a)	9.245	26.980	23.271	13.974	11.517
1,1-Difluoroethane (HFC-152a)	0.316	0.336	0.023	0.000	0.054
CO <sub>2</sub> not from energy	0.002	0.000	0.001	0.000	0.001
Total	9.563	27.316	23.295	13.974	11.572

## Environmental Burden

### Total Amount of Greenhouse Gas (GHG) Emissions (Scope 1, Scope 2)

The amount of greenhouse gas emissions from all our sites in Japan is converted to a CO<sub>2</sub> equivalent weight as shown below.



(Note 5) The amount (tons) of greenhouse gas emissions above is calculated by taking the total of Scope 1 and Scope 2 of the WRI/WBCSD GHG Protocol.

Total of CO<sub>2</sub> from energy (CO<sub>2</sub> emissions due to use of purchased electricity, city gas, liquefied petroleum gas (LPG), and heat (district cooling and heating at the Yokohama headquarters)) and the amount of use of greenhouse gases such as chlorofluorocarbon alternatives (6.5 gas), converted into carbon dioxide.

[Conversion factor]

Purchased electricity: Uses each electric company's conversion factor for the Act on the Rational Use of Energy report

City gas: 2.29 tons of CO<sub>2</sub>/1,000 m<sup>3</sup> (fixed), Liquefied petroleum gas (LPG): 3.00 tons of CO<sub>2</sub>/ton (fixed)

Amount of heat: 0.057 tons of CO<sub>2</sub>/GJ (fixed)

## Total Amount of Greenhouse Gas (GHG) Emissions (Scope 3) [Results from Fiscal 2020]

The amount of greenhouse gas emissions is converted to a CO<sub>2</sub> equivalent weight as shown below.

Category	Category Name	Amount of Emission (CO <sub>2</sub> -t)	Percentage (%)
Category 1	Purchased products/services	152,218.4	45.1
Category 2	Capital goods	7,554.4	2.2
Category 3	Fuel and energy-related activities not included in Scope 1 or 2	4,193.5	1.2
Category 4	Transportation, shipping (upstream)	678.3	0.2
Category 5	Waste from business operations	2.3	0.0
Category 6	Business trips	161.5	0.0
Category 7	Transportation for employees	4,289.3	1.3
Category 8	Leased assets (upstream)	Included in other categories	0.0
Category 9	Transportation, shipping (downstream)	Not applicable	0.0
Category 10	Manufacturing of products sold	Not applicable	0.0
Category 11	Use of products sold	168,672.4	49.9
Category 12	Disposal of products sold	Not applicable	0.0
Category 13	Leased assets (downstream)	Not applicable	0.0
Category 14	Franchises	Not applicable	0.0
Category 15	Investments	Not applicable	0.0
Total		337,770.1	100.0

## Amount of Waste

The amount of waste for all our sites in Japan is shown below. We achieved zero waste emissions (\*6) in all our offices and factories.

We check that after thermal recycling by means such as the conversion of general combustible matter to RDF (Refuse Derived Fuel), the residue is put to effective use as base material for cement and paving materials.

We set a goal for 5% or more reduction in the amount of waste, down to 527 tons or less from the 555 ton average of fiscal years 2012 to 2014. Our actual results from fiscal 2020 were 358 tons (-32%).

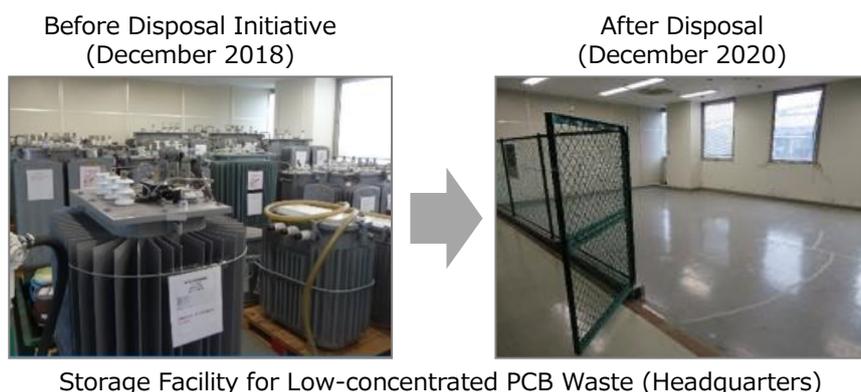


(Note 6) Zero waste emission means that waste produced by our sites is all used effectively, such as through recycling, and disposal by simple incineration or landfills is less than 0.5%. The term "Waste", as used above, specifically includes 11 sub-types, such as sludge waste, oil waste, acid waste, alkali waste, plastic waste, paper waste, metal waste, timber waste, textile waste, glass and ceramic waste, and meat and vegetable waste (cafeteria kitchen waste). Medical waste is not included in this definition.

(Note) The valuable resource amount means the amount of waste resources sold off for monetary compensation. The final waste disposal amount means the remaining waste (landfill) other than recycled waste, waste recovered by heat, and simple incinerated waste.

### Disposing of Low-concentrated PCB Waste

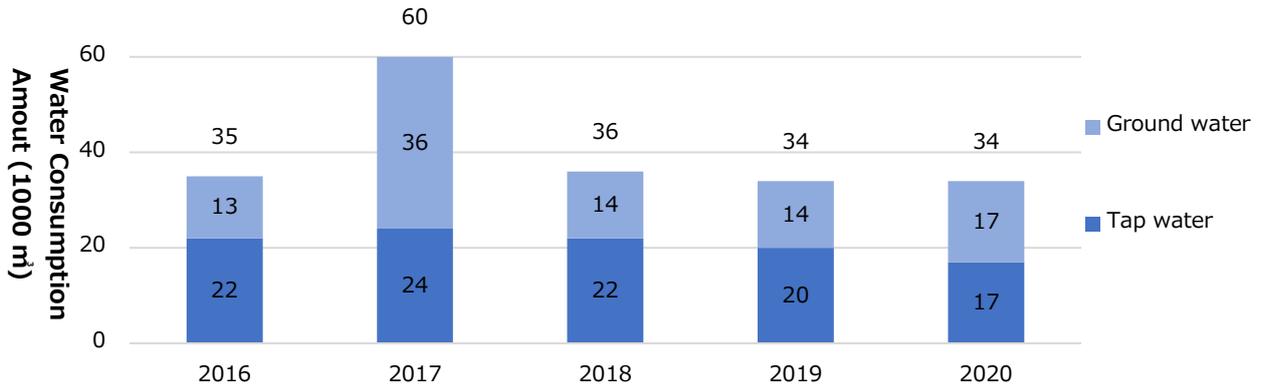
In December 2018, we started disposal of our low-concentrated PCB waste that we had in storage, and we completely disposed of it as planned by fiscal 2020. We completed this six years before March 31, 2027, the deadline set by the government.



## Water Consumption/Water Drainage

The amount of water consumption and water drainage for our main sites in Japan is shown below.

### Water Consumption Amount

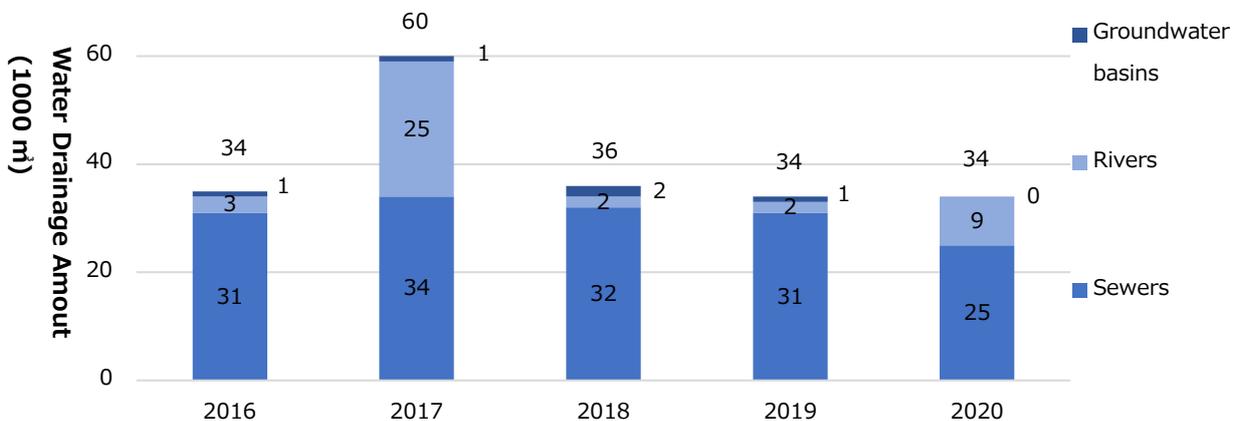


At each site, we use tap water for domestic use and to humidify the office in winter. At our Headquarters, we use ground water to water our plants in summer, and at our Headquarters and the ProDeS Center, we use ground water to melt snow. We use water for our every day needs at our company sites, not for industrial purposes.

For our total water consumption amount, we set a target to reduce it by 1% or more in fiscal 2020 to an amount of 35,600 m<sup>3</sup> or less compared to the reference year of 2018. We achieved our target, with the actual results for fiscal 2020 at 34,000 m<sup>3</sup> (-4%).

Our water is used for every day purposes. We do not have any water that can be reused or recycled.

### Water Drainage Amount



Tap water used for domestic uses drains into the sewer. Ground water used to melt snow drains into the rivers, and water used to water plants and vegetable drains underground. We have been continuously monitoring and measuring water quality by using our own self management values in order to ensure the quality of water that drains from our main sites.

# Internal Audits and External Inspections

## Internal Audits

Internal audits are carried out by employees certified as auditors, confirming the implementation of each department's environmental activities target set in accordance with the Environmental Policy and confirming that each department upholds various rules, including laws. These audits help improve problems and spread positive activities in our company.

From July 13 to August 3, 2020, we carried out internal audits that were generally performed online of 35 departments in 14 service bases including six affiliated companies. We found two non-compliant cases, seven cases needing improvement, and 39 positive cases, all of which do not violate any laws.

## External Inspections

On August 13 and from August 17 to 21, 2020, a certification inspection was conducted by the Japan Audit and Certification Organization for Environment and Quality (JACO) as an ISO14001 renewal inspection. For this audit, the entire inspection was performed online.

We received the results of this inspection with no non-compliant cases, four cases needing improvement, and seven highly-rated cases. Our environmental activities incorporated into our businesses were also evaluated with a statement saying that the activities have been advancing with continuous improvements.

## Fiscal 2020 Results of Internal Audits and External Inspection

(Cases)

Classification	Internal Audits			External Inspections (Renewal Inspections)		
	Non-compliant Case	Case Needing Improvement	Positive Case	Non-compliant Case	Case Needing Improvement	Highly-rated Case
Number of Detected Cases	2	7	39	0	4	7

## PFU Group Activities

Our group companies PFU Quality Service Limited and PFU Techno Wise Limited are taking action through the PFU environmental management system. Furthermore, PFU Life Agency Limited conducts environmentally related business.

### PFU Quality Service Limited

In Atsugi where the headquarters are located, the regional environment beautification activities that are normally held every year were canceled to prevent the spread of the coronavirus. However, we are continuing to reuse the pallets that the distribution department uses, and in fiscal 2020 we reduced the amount of waste correspondingly by 7.2 tons compared to the previous year.



### PFU Techno Wise Limited

To prevent the spread of the coronavirus, this year the annual grass-cutting event at Takamatsu Plant, which is normally held in the Environment Month (June), was held in October instead and the number of participants was reduced.



### PFU Life Agency Limited

We collect and transport the industrial and general waste, then recycle the waste via a qualified waste disposal contractor.

#### <Status of Permissions>

##### Industrial Waste Collection and Transport Operation

■ Ishikawa Pref.: License No. 01707052827

##### General Waste Collection and Transport Operations

■ Kahoku County and Kahoku City: License No. 07

■ Kanazawa City: License No. 25

■ Hakusan City: License No. 26