

The logo for PFU, consisting of the letters 'P', 'F', and 'U' in a bold, blue, serif font. The 'F' has a unique design with a small triangle cutout at its top right corner.

PFU

The title of the report, 'PFU ENVIRONMENTAL REPORT 2022', is displayed in a bold, black, sans-serif font. The text is arranged in four lines: 'PFU' on the first line, 'ENVIRONMENTAL' on the second, 'REPORT' on the third, and '2022' on the fourth. The background features a complex, 3D geometric pattern of overlapping white and light gray planes, creating a sense of depth and movement.

PFU
ENVIRONMENTAL
REPORT
2022

Corporate Profile

Company name:	PFU Limited
Capital:	15 billion yen
Sales:	134.5 billion yen (consolidated for fiscal 2020)
Employees:	4,491 (PFU Group, as of July 2021)
Foundation:	May 1962 (Establishment: November 1960)
Shareholder:	Fujitsu Limited
Headquarters:	Nu 98-2 Unoke, Kahoku-shi, Ishikawa 929-1192 Japan

Our Business

■ Document Imaging Operations

- Development and manufacturing of image scanners
- Development and services for software products such as OCR for business use, support for form development, and document management
- Development and manufacturing of products such as keyboards that are targeted at individuals

■ Embedded Computer Operations

- Development and manufacturing of industrial computing products
- Development and manufacturing of network security appliance products
- Development and manufacturing of self-service terminal products

■ Infrastructural Customer Service Operations

- Maintenance services for our own products and multi-vendor products
- Installation kitting/construction/development services
- Infrastructure/cloud installation and operational maintenance services
- Network security setup and operational maintenance services

Main Sites

Headquarters:	Kahoku-shi, Ishikawa
Yokohama Headquarters:	Yokohama-shi, Kanagawa
ProDeS Center:	Kahoku-shi, Ishikawa
Kansai Office:	Osaka-shi, Osaka
Tokai Office:	Nagoya-shi, Aichi

PFU Group (as of April 1, 2022)

• Affiliated Companies (4 companies in Japan)

PFU IT Services Limited
PFU Quality Service Limited
PFU Techno Wise Limited
PFU Life Agency Limited

• Affiliated Companies (9 companies overseas)

PFU Shanghai Co., Ltd.
PFU Shanghai Information System Co., Ltd.
PFU Jiangsu Nantong Information System Co., Ltd.
PFU America, Inc.
PFU Canada Inc.
PFU(EMEA) Limited
PFU Hong Kong Limited
Fujitsu South China Limited
PFU Asia Pacific Pte. Ltd.

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Period of Publication

This report is published for the period of April 1 2021 to March 31, 2022. Some content from March 2021 and before and April 2022 and after is also included.

This report was created to give information related to the environmental activities of PFU Limited and PFU Group.

Message from the Top

Never Changing Passion, Ever Changing Future

PFU contributes to the development of our customer's business and to society.

Our mission is to maximize the possibilities of ICT and continue to contribute to our customers and society.

Dealing with the rapid and sudden changes in the era that we live in, we have moved forward through continuous trial-and-error methods in order to provide better products and value.

We will continue to move away from conventional methods and approach new challenges with honesty and sincerity which has always been our way.

We have made a promise to continue with our efforts in order for our customers as well as our society where people feel safe, assured, and comfortable, to advance.



SUSTAINABLE
DEVELOPMENT GOALS

President and Representative Director *Izumi Nagahori*

PFU Environmental Charter/Environmental Policy

With PFU's "Environmental Charter" and "Environmental Policy", we aim to tackle global environmental issues. These are the PFU Group's basic philosophies of environmental conservation.

PFU Environmental Charter

This charter 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.

"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

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.

- (1) "Solution" Create and provide products and services that solve issues of customers on-site or of society
- (2) "Process" Transform the style of operations at our sites into a more sustainable one
- (3) "Mind" Create an environment that improves productivity of diverse employees/Improve management ability

Environmental Policy

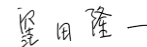
The PFU group aims to provide better products and more value by maximizing the possibilities of ICT in order to contribute to the development of our customer's businesses, as well as society. We continue to take on new challenges for our customers, in addition to the advancement of a society where people feel safe, secure, and comfortable.

1. We shall become a new type of manufacturer that provides original, high value products. We shall also grow together with our partners and contribute to solving social issues through co-creation activities.
 - (1) Contributing to customers by providing eco-efficient products and environmentally conscious solutions and services (Green Products)
 - Continuous Creation and Provision of Eco-efficient Products
 - Promotion of Environmentally Conscious Solutions and Services
 - Promotion of Green Procurement
 - (2) Contributing in-house by improving quality and efficiency in work processes (Green Processes)
 - Improvement of Quality and Enhancement of Business Efficiency
 - Promotion of Global Warming Countermeasures
 - (3) Contributing to local communities by engaging in social contribution activities through community activities (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 2022
PFU Limited

President and Representative Director

Corporate Senior Vice President



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 Office (Osaka), Tokai Office (Aichi), Shinbashi Office (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 bases, and three 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.



Ishikawa Headquarters



Yokohama Headquarters



ProDeS Center

Contents of ISO14001 Certification

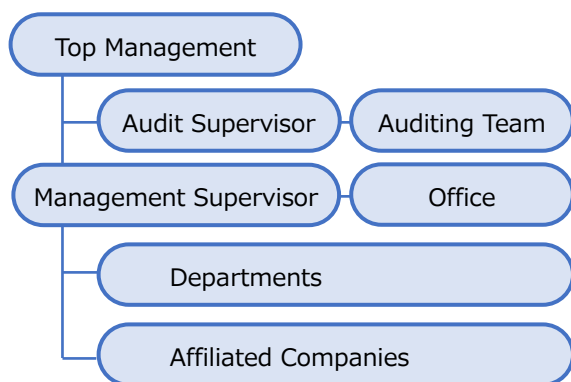
Scope of Certification: Design, development, manufacture, sales and maintenance of Hardware of Computer, Peripheral Device, Application Device and Software conducted in PFU Limited, PFU Quality Service Limited, PFU Techno Wise Limited, PFU Life Agency Limited, PFU Creative Services Limited, and PFU Shanghai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

- Certification Number: EC99J2029
- Registration Date: October 29, 1996
- Renewal Date: October 29, 2020
- Issuance date: November 10, 2021
- Certifying Organization: Japan Audit and Certification Organization for Environment and Quality (JACO)



Environmental Management Framework

<EMS Organization>



<Working Groups in Charge>

Green Product Working Group
 • Promotion of the development of eco-efficient products

Chemical Management System (CMS) Working Group
 • Promotion of proper management of products that contain chemical substances

Green Procurement Working Group
 • Promotion of green procurement for materials/software/services for products

Energy Saving/Waste Management Working Group
 • Promotion of power saving/energy saving
 • Maintaining zero waste emissions

Major Awards History, Certifications, etc.

- 1992 Award for the Promotion of Energy-Saving (Governor of Ishikawa Prefecture)
- 1994 Excellent Energy Management Plant Award (Chairman of the Central Bureau of Trade and Industry)
- 1999 Excellent Energy Management Plant Award (Secretary of the Natural Resources & Energy Agency)
- 2002 Ishikawa Green Enterprise Award (Governor of Ishikawa Prefecture)
- 2010 Ranked 31st in manufacturing in the 14th "Environmental Management Investigation (Nikkei)" "Line of the Year" Award for scanners (BLI, an independent evaluator of office devices in USA), information security rating "A is" certification
- 2011 Ishikawa Prefecture Creativity and Originality Award in the Occupational Field of the Company (Yonejiro Tsuda Award) for the Promotion of Energy-Saving and the Installation of the High Efficiency Reflective Panel
- 2013 Excellent Energy Management Company Award (ProDeS Center) (Chairman of the Japan Electric Association, Hokuriku Branch)
- 2014 kakaku.com PRODUCT AWARD 2013 silver prize in scanner division for ScanSnap SV600 "Ishikawa Satoyama ISO" certification (Ishikawa)
- 2015 Interop Tokyo 2015 "Best of Show Award" grand prize for cyber attack countermeasure/internal countermeasure appliance "iNetSec Intra Wall" "Hama road supporter" certification (Yokohama)
- 2016 Eco Mark Award 2015 Prize (image scanner)
- 2017 Excellent Energy Management Company Award (Headquarters) (Chairman of the Japan Electric Association, Hokuriku Branch)

- 2018 Certified Health & Productivity Management Outstanding Organizations Recognition Program, White 500 (PFU Group)
- 2019 Eruboshi (a certification based on the Act on the Promotion of Female Participation and Career Advancement in the Workplace), highest level certification (PFU)
 GOOD DESIGN AWARD 2019 for fi-800R
 Certified Health & Productivity Management Outstanding Organizations Recognition Program, White 500 (PFU Group)
 The China Environmental Label Excellence Enterprise Award (Fujitsu South China Limited)
- 2020 Certified Health & Productivity Management Outstanding Organizations Recognition Program 2020 (Large Enterprise Category) (PFU Group)
 Ishikawa Ecodesign Award (silver prize) (BIP Smart)
 KAIKA Prize from KAIKA Awards (Rising-V Activities)
- 2021 Certified Health & Productivity Management Outstanding Organizations Recognition Program 2021 (Large Enterprise Category) (PFU Group)
 GOOD DESIGN AWARD 2021 for ScanSnap iX1300
 U.S. EPA 2021 SmartWay® Excellence Award for environmentally conscious activities (Fujitsu Computer Products of America, Inc., a subsidiary of the PFU group in the United States)
- 2022 BCN scanner division, #1 share for 12 consecutive years



Certified Health & Productivity Management Outstanding Organizations Recognition Program 2021 (Large Enterprise Category)













BCN scanner division #1 share for 12 consecutive years (2022)

PFU Environmental Action Plan

Results from Activities in Fiscal 2021

During 2021, the last year of the Ninth Environmental Action Plan (Fiscal 2019 - Fiscal 2021), we pursued 16 environmental targets and achieved 15 of them.

Activity	Details	Results from fiscal 2019	Results from fiscal 2020	Results from fiscal 2021		
Green Solution	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% (37 models)	Product compliance with the International ENERGY STAR Program Ver. 3.0: 100% (5 models)	Product compliance with the International ENERGY STAR Program Ver. 3.0: 100% (10 models)
			Embedded computing products	Environmental performance index: 5.26 or less (5.19)	Environmental performance index: 4.98 or less (4.94)	Environmental performance index: 4.74 or less (4.67)
				Environmental contribution to our customers' sites 5.0 tons of CO ₂ or more (5.6 tons)	Environmental contribution to our customers' sites 5,000 tons of CO ₂ or more (5,726 tons)	Environmental contribution to our customers' sites 6,500 tons of CO ₂ or more (7,423 tons)
			Interactive KIOSKS	Environmental performance index: 19.4 or less (17.5)	Environmental performance index: 18.41 or less (18.41)	Environmental performance index: 16.6 or less (16.5)
				Environmental contribution to our customers' sites 1,663 tons of CO ₂ or more (1,876 tons)	Environmental contribution to our customers' sites 1,782 tons of CO ₂ or more (1,950 tons)	Environmental contribution to our customers' sites 1,722 tons of CO ₂ or more (2,023 tons)
			Security products	Environmental performance index: 1.63 or less (1.66)	Environmental performance index: 1.42 or less (1.35)	Environmental performance index: 1.286 or less (1.285)
				Environmental contribution to our customers' sites 779 tons of CO ₂ or more (785 tons)	Environmental contribution to our customers' sites 790 tons of CO ₂ or more (773 tons)	Environmental contribution to our customers' sites 841 tons of CO ₂ or more (863 tons)
			Solutions	Environmental contribution to our customers' sites 4,427 tons of CO ₂ or more (6,021 tons)	Environmental contribution to our customers' sites 4,250 tons of CO ₂ or more (5,491 tons)	Environmental contribution to our customers' sites 4,039 tons of CO ₂ or more (8,979 tons)
			Services	Environmental contribution to our customers' sites 27.7 tons or CO ₂ or more (34.1 tons)	Environmental contribution to our customers' sites 32.2 tons of CO ₂ or more (44.2 tons)	—
			To comply with environmental labels (EPEAT)	Scanner products	Maintained and expanded compliance with EPEAT Maintained 100% product compliance (5 models)	Maintained and expanded compliance with EPEAT Maintained 100% product compliance (2 models)

	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: 1 department fell short)	At least one suggestion per department (19 out of 19 departments)	At least one suggestion per department (9 out of 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 ₂ emissions and to preserve water resources to the upper stream in the supply chain: 100% understanding of business partners' activities (60 companies)	Promotion of activities to reduce CO ₂ emissions and to preserve water resources to the upper stream in the supply chain: 100% understanding of business partners' activities (64 companies)	Promotion of activities to reduce CO ₂ emissions and to preserve water resources to the upper stream in the supply chain: 100% understanding of business partners' activities (71 companies)
Green Process	4	Improve Quality and Enhance Business Efficiency 	To reduce the burden on the environment with improved business operations	At least one suggestion per department (40 out of 42 departments: 2 departments fell short)	At least one suggestion per department (41 out of 45 departments: 4 departments fell short)	At least one suggestion per department (30 out of 31 departments: 1 department fell short)
	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: 3,298 kL or less (3,198 kL)	Crude oil conversion value: 3,258 kL or less (3,235 kL)	Crude oil conversion value: 3,224 kL or less (3,028 kL)
Green Mind	6	Promotion of an Environmentally Conscious Culture 	To promote environmental and social contribution activities as well as biodiversity conservation activities, and to improve operation of environmental activities	Promotion of social contribution activities (21 projects)	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 (37 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 (42 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)

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 2021 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 2021

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 10 newly-developed models.
	Embedded computing 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 9 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 10 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 2021

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.



fi-8290



fi-8190



ScanSnap iX1300

- 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:
fi-8290 2.0 W or less
fi-8190 2.0 W or less
iX1300 1.7 W or less
(when Wi-Fi is off)
- Eco Mark certified product
fi-8290 21 155 011
fi-8190 21 155 010
iX1300 21 155 027
- Product compliance with chemical substance regulations (RoHS Directive 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 2021, 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.

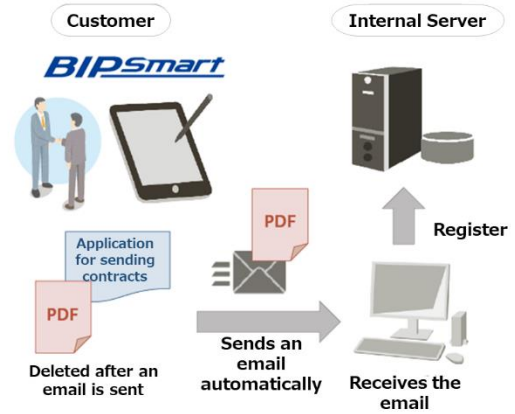
Main Achievements of Fiscal 2021

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

Complete Digitization of Paper Contracts

When exchanging contracts, there was a method where our customers had to ask contract partners to fill in the necessary items on a paper contract, scan the contract with a scanner at hand, then send the scanned contract back via email using an application for sending contracts.

There were two issues with this. First, the contract process took time to complete, and second, since the hard-copy of the contract was moved around a lot, there was a risk that the hard-copy, which contains customer information, would get lost.

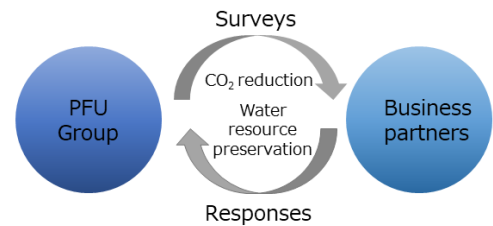


Developed by PFU, "BIP Smart" now allows customers to write on an image of a contract or another form using their finger or a stylus pen, then convert the image to a PDF file, all using a tablet device. Together with the application for sending contracts already in use, a contract can be sent by email without being printed out immediately after text is entered on the tablet device. Since no data is left on the tablet, security can be ensured.

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 2021, we promoted activities to reduce CO₂ 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 2021

Promotion of procurement from suppliers that work aggressively in consideration of the environment	Promotion of activities to reduce CO ₂ and to preserve water resources to the upper stream in the supply chain (21 new companies + 50 existing companies = 71 companies: 100%)
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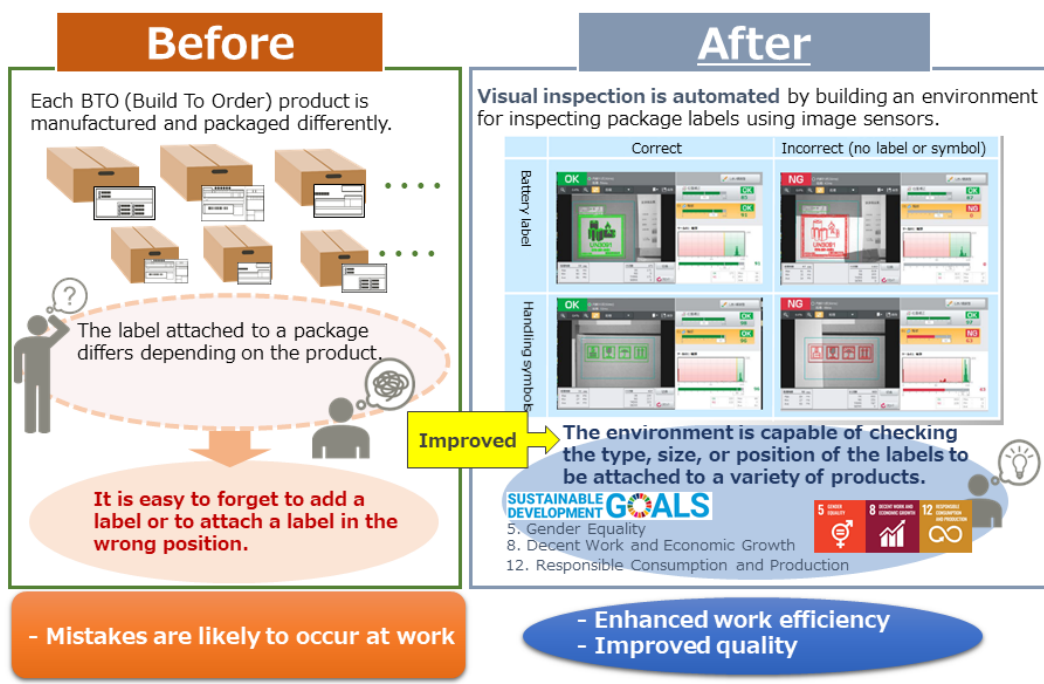
Improvement of Quality and Enhancement of Business Efficiency

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 2021, we promoted the improvement of quality and the enhancement of business efficiency of our core business at all departments.

Examples of Improvements in Fiscal 2021

- Automation of visual inspection by building an environment for inspecting attachment of package labels



- Strengthened production and improved quality in manufacturing a wide variety of products in small quantities

PFU Techno Wise promotes efforts to innovate production, such as introducing a moving assembly line (*1), to improve productivity and quality in manufacturing a wide variety of products in small quantities.

Background: The layout of an assembly line has to be changed a few times a year due to a wide variety of products (about 1,400 products) being manufactured at a factory.

Conventional Production Lines

The line has to be fixed to the floor due to the use of a chain-driven conveyor. Therefore, it is difficult to make changes to the layout, such as extending or shortening the line.

Problem

Manufacturing a wide variety of products in small quantities makes it difficult to adjust the production system in response to fluctuating demand.

Improved

Introducing the Moving Assembly Line

Introducing the moving assembly line with a baton passing conveyor system (*2) enables flexible layout changes, such as extending or shortening a production line, through designing and building a production system in-house.

Result

By optimizing the layout of the factory, it is possible to shorten manufacturing lead times, build an environment in which constant production is possible at any time, and provide products with a uniform level of quality.

Effects

- Standardized production
- Uniform level of quality



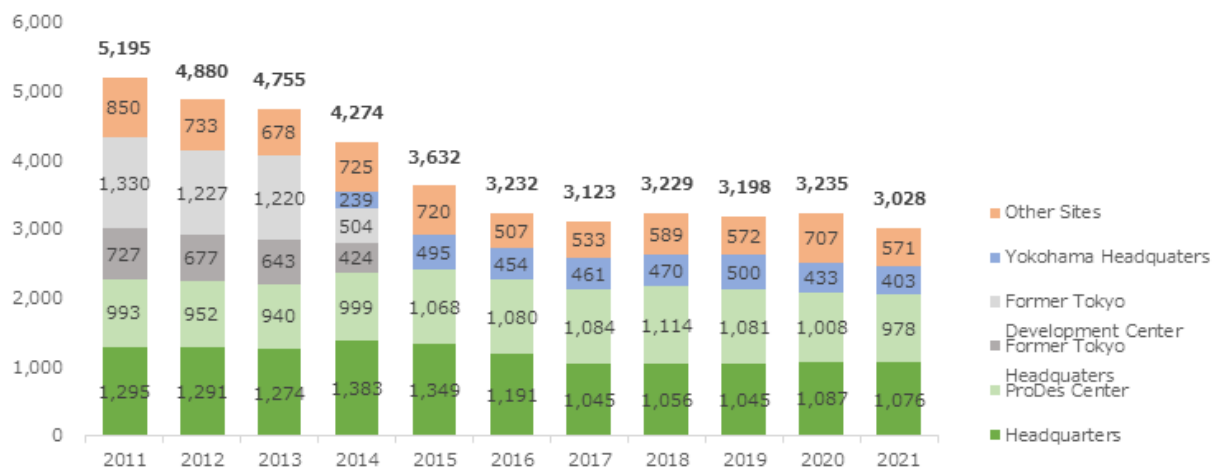
Global Warming Countermeasures

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

In fiscal 2021, we made efforts to enhance the effects of power-saving by switching to production facilities that consume less electricity, as well as to expand the use of renewable energy.

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

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



Energy-saving Effects of Updated Facilities

PFU Techno Wise saved energy by switching the apparatus used in the DIP process for printed circuit boards in the course of production to a point soldering apparatus.

Installation Location	PFU Techno Wise
Start of Operation	September 2021
Reduction in Electric Power	7,200 kWh



Point Soldering Apparatus

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 2021, to prevent the spread of COVID-19, some regularly held annual events were canceled, but we participated in events such as beautification activities in the reclaimed land in the Kahoku Lagoon and Hama Road Supporter activities.

List of Main Activities

No.	Event name	Done	Implemented at:
1	Green Fund donation	April 2021	Ishikawa
2	Turning the Lights Off	July 2021	All offices/locations
3	Advertising SDG activities (e-messe kanazawa2021)	July 2021	Ishikawa
4	Creation Workshop	July 2021	Ishikawa
5	Beautification activities on the Kahoku Lagoon reclaimed land	October 2021	Ishikawa
6	Hama Road Supporter activities	November 2021	Yokohama Headquarters
7	Plantation of nandina saplings	December 2021	Ishikawa
8	Displaying Certificate of Green Power (at PFU Charity Concert)	December 2021	Ishikawa
9	Use of local ingredients in the company cafeteria	August 2021 to December 2021	Ishikawa
10	Collection of plastic bottle caps	All year	All the sites in Japan
11	Collection of used disposable wooden chopsticks	All year	Tokai Office
12	Conversion of food residue into fertilizer	All year	Ishikawa
13	Social contribution through sports	All year	Ishikawa, all sites in Japan
14	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 joined in the beautification activities on the Kahoku Lagoon reclaimed land in October 2021.



Beautification 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

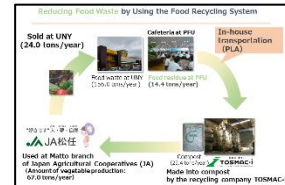
As part of our CSR activities and environmental activities, we participated in the Hama Road Supporter activities sponsored by Yokohama City at the Yokohama Headquarters.



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

Action Plan from Fiscal 2022 to Fiscal 2024

In fiscal 2022, we established the 10th Environmental Action Plan (Fiscal 2022 - Fiscal 2024), and we are already working towards its implementation.

Activity		Details		Targets for fiscal 2022	Targets for fiscal 2023	Targets for fiscal 2024		
Green Product	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%	Product compliance with the International ENERGY STAR Program Ver. 3.0: 100%		
				Embedded computing products	Environmental performance index: 4.51 or less	Environmental performance index: 4.33 or less	Environmental performance index: 4.15 or less	
					Environmental contribution to our customers' sites 8,113 tons of CO ₂ or more	Environmental contribution to our customers' sites 9,210 tons of CO ₂ or more	Environmental contribution to our customers' sites 10,455 tons of CO ₂ or more	
				Interactive KIOSKS	Environmental performance index: 15.80 or less	Environmental performance index: 14.50 or less	Environmental performance index: 12.00 or less	
					Environmental contribution to our customers' sites 1,437 tons of CO ₂ or more	Environmental contribution to our customers' sites 1,318 tons of CO ₂ or more	Environmental contribution to our customers' sites 876 tons or CO ₂ or more	
				Network products	Environmental performance index: 1.221 or less	Environmental performance index: 1.163 or less	Environmental performance index: 1.108 or less	
					Environmental contribution to our customers' sites 934 tons of CO ₂ or more	Environmental contribution to our customers' sites 1,016 tons of CO ₂ or more	Environmental contribution to our customers' sites 1,106 tons of CO ₂ or more	
				Solutions	Environmental contribution to our customers' sites 5,836 tons or CO ₂ or more	Environmental contribution to our customers' sites 6,017 tons of CO ₂ or more	Environmental contribution to our customers' sites 6,203 tons of CO ₂ or more	
				To comply with environmental labels (EPEAT)	Scanner products	To maintain and expand compliance with EPEAT Product compliance with EPEAT: 100%	To maintain and expand compliance with EPEAT Product compliance with EPEAT: 100%	To maintain and expand compliance with EPEAT Product compliance with EPEAT: 100%
				2	Promotion of Environmentally Conscious Solutions and Services 	To promote our customers' environmental burden by expanding our environmentally conscious solutions and services	At least one suggestion per department (all relevant departments)	At least one suggestion per department (all relevant departments)

	3	Promotion of Green Procurement  	Promotion of activities to reduce CO ₂ emissions to the upper stream in the supply chain	Promotion of activities to reduce CO ₂ emissions 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 ₂ emissions 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 ₂ emissions and to preserve water resources to the upper stream in the supply chain: 100% understanding of business partners' activities
Green Process	4	Improve of Quality and Enhance of Business Efficiency 	To reduce the burden on the environment with improved business operations	At least one suggestion per department (all relevant departments)	At least one suggestion per department (all relevant departments)	At least one suggestion per department (all relevant departments)
	5	Promotion of Global Warming Countermeasures  	To reduce GHG emissions at business operation locations	GHG emissions 5,182 tons of CO ₂ or less (37.3% reduction compared to fiscal 2013)	GHG emissions 4,978 tons of CO ₂ or less (39.8% reduction compared to fiscal 2013)	GHG emissions 4,774 tons of CO ₂ or less (42.2% reduction compared to fiscal 2013)
Green Mind	6	Promotion of an Environmentally Conscious Culture 	To promote environmental and social contribution activities as well as biodiversity conservation activities, and to improve operation of environmental activities	Promotion of social contribution activities (22 projects)	Promotion of social contribution activities (23 projects)	Promotion of social contribution activities (24 projects)
				Promotion of the sharing/transmitting of environmental information and improving operation of environmental activities (13 projects)	Promotion of the sharing/transmitting of environmental information and improving operation of environmental activities (14 projects)	Promotion of the sharing/transmitting of environmental information and improving operation of environmental activities (15 projects)
				Continuous improvement of the management system	Continuous improvement of the management system	Continuous improvement of the management system

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

The amount of reduction in CO₂ emissions at customers' sites are calculated from the number of solutions and services provided.

Carbon Neutral

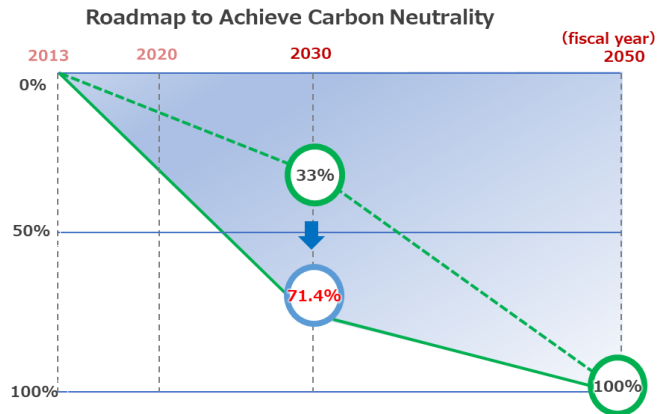
PFU wants to contribute fully to efforts to prevent global warming to realize a sustainable society.

Efforts towards Scope 1 and 2

We aim to be completely carbon neutral by 2050. We want to achieve the goal of net zero CO₂ emissions coming from the PFU group.

In order to achieve carbon neutrality, we have created a "roadmap to completion", and while promoting the sustainable conservation of energy, we are also advancing toward the adoption of renewable energy.

To accelerate the move towards carbon neutrality, we revised the target for 2030, increasing it from a 33% reduction to a 71.4% reduction.



Target for Reduction in Amount of CO₂ Emissions (Scope 1, Scope 2)

Target for 2030	Target for 2050
71.4% reduction compared to fiscal 2013	100% reduction

Efforts towards Scope 3

The reduction of CO₂ emissions has been required across the entire supply chain of our business operations, from upstream to downstream, such as procurement, transportation, and use. PFU has set a reduction target that focuses on two categories with high emission rates: "Purchased products/services (Category 1)" and "Use of products sold (Category 11)".

Target for Reduction in Amount of CO₂ Emissions (Scope 3)

Target for 2030
30% reduction compared to fiscal 2013 (Category 1 and Category 11)

Efforts for a Wider Dissemination of Renewable Energy

The Fujitsu Group to which PFU belongs has joined RE100 (*3) as a Gold Member, which makes PFU a member of RE100.

RE100

CLIMATE GROUP

CDP

(*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.

PFU will contribute to the wider spread of renewable energy across all of society while also working towards the adoption of renewable energy, to achieve our Group's own goal of net zero CO₂ emissions. In fiscal 2021, we acquired a Non-fossil Fuel Certificate certifying that we purchased electricity generated with photovoltaic power at Ichinoseki Mega Solar Power Plant (located in Ichinoseki, Iwate Prefecture) between July and September 2021.

Purchased Green Power

Results from fiscal 2021

321,000 kWh

(equivalent to 4% of the electricity used annually at our Headquarters and the ProDeS Center)

2022年3月3日

非化石証書移転証明

株式会社 PFU 御中

本証書は経済産業省資源エネルギー庁発行の「トラッキング付非化石証書取引結果通知」に基づき下記の環境価値を御社に移転したことを証明します。

証書種別: FIT 非化石証書

数量: 320,000kWh

□トラッキング内容

取引結果通知 No	NFC1_202103_08100101
設備 ID	A647942B03
発電設備区分	太陽光
設備の所在地	岩手県一関市殿美町字田代1-7
発電設備名	岩手県一関市MS発電所
設置者名	一関市メガソーラー合同会社
発電出力(kW)	8,000.0
認定日	2014/3/14
運転開始又は予定日	2015/3/31
対象期間(発電期間)	2021年7月~9月発電分
備考	

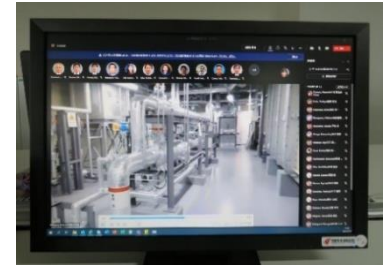
東京都千代田区大手町1-4-2
丸証株式会社
新エネルギー開発部
環境ソリューション課

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.

Online "Environmental Facility Tour for Employees"

On June 18th, we held an online "environmental facility tour for employees" as one of the events for Environment Month. "Environmental Facility Tour for Employees" is a tour of facilities and equipment related to energy and waste at PFU. The tour is held to get a deeper understanding of how these related to everyday work. Same as last year, the tour was held virtually to prevent the spread of COVID-19. Participants toured a total of six facilities and pieces of equipment at YOKOHAMA i-MARK PLACE, where our Yokohama Headquarters are located. The tour welcomed 46 participants (an increase from the previous year) from the Yokohama Headquarters, Ishikawa Headquarters, ProDeS Center, and service centers/service stations around the country. (34 participants last year)



■ Toured Company Environmental Facilities:

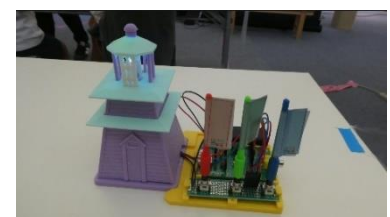
(1) Waste dump/(2) Earthquake shock absorber/(3) Extra high-voltage substation/(4) Heat source machine chamber/(5) Emergency power generator/ (6) Photovoltaic power generation system facility

PFU Creation Workshop 2021

On July 31 (Sat) and August 1 (Sun), 2021, the PFU Creation Workshop 2021 was held at the Sea & Beach Museum at Umikko Land Nanatsuka (a facility operated by Kahoku City) with thorough preventive countermeasures taken against the spread of COVID-19. This year marked the 15th workshop. It was a hands-on course for families held once again at Kahoku Citizen's College and sponsored by the Kahoku City Board of Education.

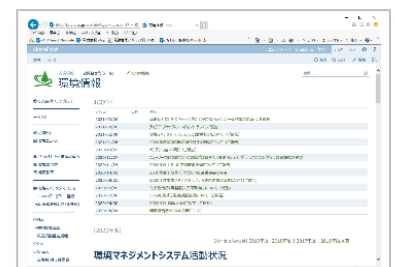
Taking something related to Kahoku City as a course topic, staff selected the paper model of the former Shiroy Lighthouse given to Kahoku City by the Kanazawa Coast Guard Office, and prepared course materials based on the model using a 3D printer and other tools.

This was the first time that a 3D printer and CAD software was used for the workshop. The participants designed a window of the former Shiroy Lighthouse using CAD software and lit up the lighthouse with an LED lamp.



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.



Portal site for environmental information for employees

Requests and Inquiries from Outside Our Company

In fiscal 2021 we responded to 234 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.)	153
2	Requests other than those related to products (Example: Request for provision of data about the environment from customers, the government, industry organizations, etc.)	81
	Total	234

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.

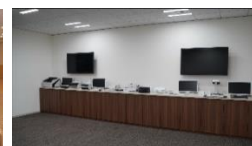


Showroom

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

Use of Green Power at Events

At the "PFU Christmas Charity Concert" (held in Kanazawa on December 11th), 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.



Notice of Green Power
(PFU Christmas Charity Concert)

Sharing Information

PFU is sharing information about sustainability and SDGs on its website.

PFU aims to be a business that can contribute to "solutions to social issues" and "a design for a sustainable society". We have posted a "Sustainability" page on our public website to share information about our way of thinking, course of action, and future direction for "sustainable operation", "environment (E)", "society (S)", and "governance (G)".

PFU sustainability

Search



In addition, we have built an environment to distribute information within the company to raise awareness of SDGs among workers in the PFU group.

With the aim to create a business that has awareness of both industry and society, we have established an "in-house website for SDGs" and "in-house social networking service for SDGs" in which we encourage development of solutions to resolve social issues through our business operations and call for support in activities to make an environmental society.

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 2021, this accounting method was applied to seven of our business sites in Japan (Headquarters, Yokohama Headquarters, ProDeS Center, Kansai Office, Tokai Office, Shinbashi Office, and PFU Quality Service).

Breakdown of environmental accounting results for fiscal 2021

(April 1, 2021 to March 31, 2022)

(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 (±0)	0 (±0)
	Global environmental conservation costs/benefits	Global warming prevention, energy-saving, etc.	0 (-209)	71 (-208)	10 (+1)
	Resource recycling costs/benefits	Disposal of waste and effective use of resources, etc.	0 (±0)	20 (±0)	7 (+2)
Upstream/downstream costs/benefits		Collection/recycling/re-merchandising of products, etc.	0 (±0)	0 (±0)	2 (±0)
Management costs/benefits		Maintenance/operation of the Environmental Management System, environmental education for employees, etc.	0 (±0)	57 (-10)	53 (-28)
R&D costs/benefits		R&D for products/solutions that contribute to environmental conservation, etc.	0 (±0)	221 (-16)	1,283 (-5)
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)	377 (-234)	1,355 (-30)

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

Costs and Benefits of Fiscal 2021

After tallying fiscal 2021, we see that costs decreased to 377 million yen (-62% compared to the previous fiscal year), and benefits decreased to 1.355 billion yen (-2% compared to the previous fiscal year).

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 2021 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 2021 were 0.107 tons (-19%).

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

(Tons)

Chemical Substance Name	Fiscal 2017	Fiscal 2018	Fiscal 2019	Fiscal 2020	Fiscal 2021
sodium linear alkylbenzenesulfonate	0.007	0.034	0.031	0.044	0.031
2-aminoethanol	0.004	0.021	0.026	0.027	0.025
Silver and its water-soluble compounds	0.027	0.028	0.039	0.031	0.022
Poly (oxyethylene) alkyl ether	0.015	0.021	0.022	0.022	0.019
Methyl methacrylate	0.000	0.000	0.000	0.006	0.006
Polyoxyethylene alkyl ether	0.000	0.000	0.000	0.003	0.001
Sodium dodecyl ether sulfate	0.012	0.002	0.001	0.001	0.001
2,6-Di-tert-butyl-4-cresol	0.000	0.000	0.000	0.000	0.001
Methacrylic acid	0.000	0.000	0.000	0.000	0.000
Lead and its compounds	0.003	0.008	0.000	0.000	0.000
Other	0.056	0.016	0.002	0.001	0.001
Total	0.137	0.135	0.123	0.136	0.107

(*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 2021 were 0.938 tons (-26%).

Annual Amount of VOC Handled

(Tons)

Chemical Substance Name	Fiscal 2017	Fiscal 2018	Fiscal 2019	Fiscal 2020	Fiscal 2021
Isopropyl alcohol	0.789	0.746	0.770	0.790	0.809
Butyl acetate	0.056	0.056	0.066	0.046	0.058
Ethanol	0.336	0.150	0.134	0.097	0.053
Other	0.108	0.030	0.043	0.017	0.018
Total	1.289	0.982	1.013	0.950	0.938

Greenhouse Gases

The amount of greenhouse gases other than CO₂ that were handled in fiscal 2021 is shown below. The annual amount handled in fiscal 2021 is converted to a CO₂ equivalent weight of approximately 7 tons, and is equivalent to approximately 0.1% of emissions from all our sites (5,233 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 CO₂)

(Tons)

Chemical Substance Name	Fiscal 2017	Fiscal 2018	Fiscal 2019	Fiscal 2020	Fiscal 2021
1,1,1,2-tetrafluoroethane (HFC-134a)	26.980	23.271	13.974	11.517	7.061
1,1-Difluoroethane (HFC-152a)	0.336	0.023	0.000	0.054	0.059
CO ₂ not from energy	0.000	0.001	0.000	0.001	0.000
Total	27.316	23.295	13.974	11.572	7.120

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 CO₂ equivalent weight as shown below.



(*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 CO₂ from energy (CO₂ emissions due to use of purchased electricity, 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

Liquefied petroleum gas (LPG): 5.98 tons of CO₂/1,000 m³ (fixed)

Amount of heat: 0.057 tons of CO₂/GJ (fixed)

Total Amount of Greenhouse Gas (GHG) Emissions (Scope 3)

The amount of greenhouse gas emissions is converted to a CO₂ equivalent weight as shown below.

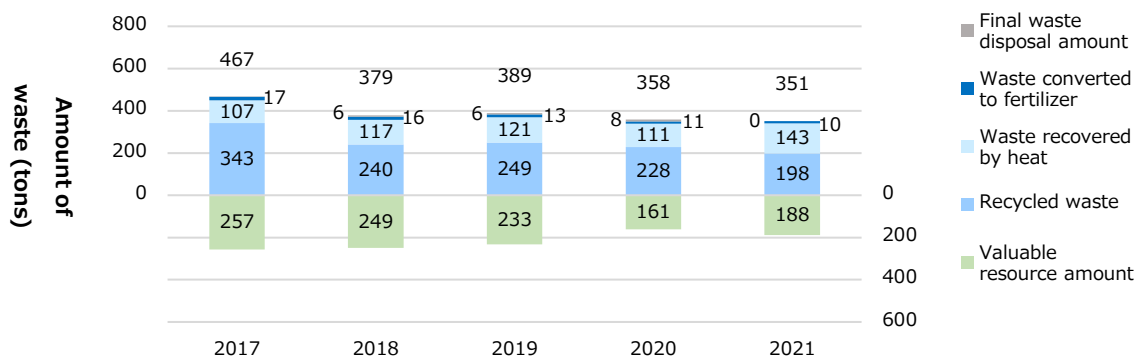
Category	Category Name	Amount of Emission (CO ₂ -t)		Ratio of amount for each category to entire amount for Scope 3 in fiscal 2021 (%)
		Fiscal 2020	Fiscal 2021	
Category 1	Purchased products/services	213,959.1	220,518.8	91.2
Category 2	Capital goods	7,554.4	1,924.8	0.8
Category 3	Fuel and energy-related activities not included in Scope 1 or 2	4,193.5	4,135.0	1.7
Category 4	Transportation, shipping (upstream)	678.3	1,152.9	0.5
Category 5	Waste from business operations	2.3	20.1	0.0
Category 6	Business trips	161.5	421.1	0.2
Category 7	Transportation for employees	4,289.3	2,451.9	1.0
Category 8	Leased assets (upstream)	Included in other categories	Included in other categories	0.0
Category 9	Transportation, shipping (downstream)	Not applicable	Not applicable	0.0
Category 10	Manufacturing of products sold	Not applicable	Not applicable	0.0
Category 11	Use of products sold	10,138.8	11,102.9	4.6
Category 12	Disposal of products sold	Not applicable	Not applicable	0.0
Category 13	Leased assets (downstream)	Not applicable	Not applicable	0.0
Category 14	Franchises	Not applicable	Not applicable	0.0
Category 15	Investments	Not applicable	Not applicable	0.0
	Total	240,977.2	241,727.4	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 2021 were 351 tons (-33%).



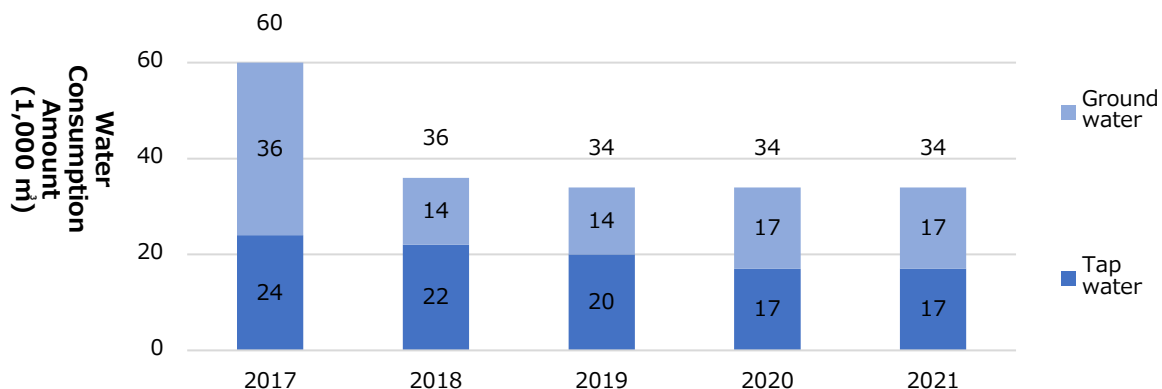
(*6) Zero waste emission means that waste produced by our sites is all used effectively, such as through recycling, and disposal by simple incineration or landfills is less than 0.5%. The term "Waste", as used above, specifically includes 11 sub-types, such as sludge waste, oil waste, acid waste, alkali 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.

Water Consumption/Water Drainage

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

Water Consumption Amount

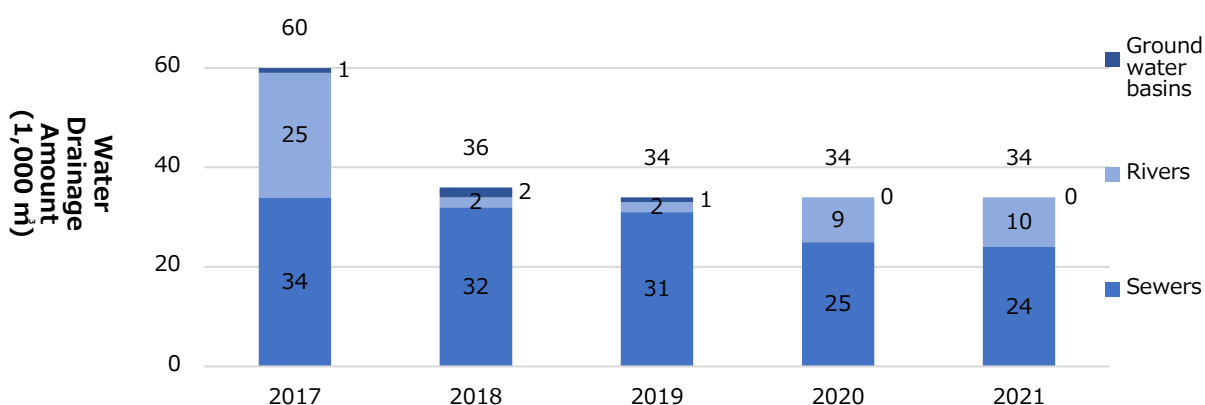


At each site, we use tap water for domestic use and to humidify the office in winter. At our Headquarters, we use ground water to water our plants in summer, and at our Headquarters and the ProDeS Center, we use ground water to melt snow. We use water for our every day needs at our company sites, not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

For our total water consumption amount, we set a target to reduce it by 1% or more in fiscal 2021 to an amount of 35,600 m³ or less compared to the reference year of 2018. We achieved our target, with the actual results for fiscal 2021 at 34,000 m³ (-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.

We will comply with all environmental laws and regulations.

In order to conserve the environment surrounding our sites and comply with laws and regulations, we will regularly measure water quality, noise output, and vibration output.

Water Quality Measurement Results

We make efforts to maintain the water quality of drainage from Headquarters, the ProDeS Center, and the PFU Techno Wise Takamatsu Plant. The results of the measurement did not exceed the legal regulations, and there was no problem with water quality.

	Regulated substances	Unit	Regulation value	Fiscal 2021 measured value	Evaluation
Headquarters (Bld. A & B)	Hydrogen ion concentration (pH)	-	Between 5 & 9	8.1	✓
	Biochemical oxygen demand (BOD)	mg/L	Less than 600	160	
	Suspended substances (SS)	mg/L	Less than 600	200	
	Mineral oil	mg/L	5 or less	Less than 0.5	
	Animal and plant oils	mg/L	30 or less	3	
	Ammonium-nitrogen, nitrite-nitrogen and nitrate-nitrogen content	mg/L	Less than 380	11	
Headquarters (Bld. E)	Hydrogen ion concentration (pH)	-	Between 5 & 9	7.9	✓
	Biochemical oxygen demand (BOD)	mg/L	Less than 600	1.8	
	Suspended substances (SS)	mg/L	Less than 600	5	
	Mineral oil	mg/L	5 or less	Less than 0.5	
	Animal and plant oils	mg/L	30 or less	Less than 0.5	
	Ammonium-nitrogen, nitrite-nitrogen and nitrate-nitrogen content	mg/L	Less than 380	Less than 1	
Headquarters (Anechoic Chamber)	Hydrogen ion concentration (pH)	-	Between 5 & 9	7.6	✓
	Biochemical oxygen demand (BOD)	mg/L	Less than 600	22	
	Suspended substances (SS)	mg/L	Less than 600	10	
	Mineral oil	mg/L	5 or less	Less than 0.5	
	Animal and plant oils	mg/L	30 or less	Less than 0.5	
	Ammonium-nitrogen, nitrite-nitrogen and nitrate-nitrogen content	mg/L	Less than 380	5	
ProDeS Center	Hydrogen ion concentration (pH)	-	Between 5 & 9	8.8	✓
	Biochemical oxygen demand (BOD)	mg/L	Less than 600	150	
	Suspended substances (SS)	mg/L	Less than 600	200	
	Mineral oil	mg/L	5 or less	Less than 0.5	
	Animal and plant oils	mg/L	30 or less	2.8	
	Ammonium-nitrogen, nitrite-nitrogen and nitrate-nitrogen content	mg/L	Less than 380	28	
PFU Techno Wise Takamatsu Plant (Bld. 1)	Hydrogen ion concentration (pH)	-	Between 5 & 9	7.3	✓
	Biochemical oxygen demand (BOD)	mg/L	Less than 600	2	
	Suspended substances (SS)	mg/L	Less than 600	2	
	Mineral oil	mg/L	5 or less	Less than 1	
	Animal and plant oils	mg/L	30 or less	Less than 1	
	Ammonium-nitrogen, nitrite-nitrogen and nitrate-nitrogen content	mg/L	Less than 380	0.9	
PFU Techno Wise Takamatsu Plant (Bld. 2 & 3)	Hydrogen ion concentration (pH)	-	Between 5 & 9	7.3	✓
	Biochemical oxygen demand (BOD)	mg/L	Less than 600	2	
	Suspended substances (SS)	mg/L	Less than 600	Less than 1	
	Mineral oil	mg/L	5 or less	Less than 1	
	Animal and plant oils	mg/L	30 or less	Less than 1	
	Ammonium-nitrogen, nitrite-nitrogen and nitrate-nitrogen content	mg/L	Less than 380	0.9	

■ Noise/Vibration Measurement

At our headquarters, we regularly measure the noise and vibration generated by our business activities (once every five years).

We performed measurements on June 10, 2020, and confirmed that all values did not exceed the legal regulations (next measurement planned for fiscal 2025).

Noise Measurement Results

	Noise	Unit	Regulation value	Fiscal 2020 measured value				Evaluation
				Bld. E north side	Bld. A southwest side	Anechoic chamber north side	South side parking lot	
Headquarters	Daytime	dB	65 or less	34	47	46	-	✓
	Morning	dB	60 or less	34	47	46	-	
	Evening	dB	60 or less	34	47	46	-	
	Nighttime	dB	50 or less	34	47	46	-	
	Daytime	dB	60 or less (*7)	-	-	-	40	
	Morning	dB	55 or less (*7)	-	-	-	40	
	Evening	dB	55 or less (*7)	-	-	-	40	
	Nighttime	dB	45 or less (*7)	-	-	-	40	

(*7) Because the parking lot is in an area within 50m of the borders of school grounds, the legal regulations are five decibels lower.

Vibration Measurement Results

	Vibration	Unit	Regulation value	Fiscal 2020 measured value				Evaluation
				Bld. E north side	Bld. A southwest side	Anechoic chamber north side	South side parking lot	
Headquarters	Daytime	dB	65 or less	27	30	31	-	✓
	Nighttime	dB	50 or less	27	30	31	-	
	Daytime	dB	60 or less (*8)	-	-	-	29	
	Nighttime	dB	45 or less (*8)	-	-	-	29	

(*8) Because the parking lot is in an area within 50m of the borders of school grounds, the legal regulations are five decibels lower.

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 27 to August 5, 2021, we carried out internal audits that were generally performed online of 19 departments in 6 business sites. We found two non-compliant cases, six cases needing improvement, and 25 positive cases, all of which do not violate any laws.

External Inspections

From September 27 to 30, 2021, a certification inspection was conducted by the Japan Audit and Certification Organization for Environment and Quality (JACO) as the first annual ISO14001 surveillance audit. For this audit, the entire inspection was performed online.

We received the results of this inspection with no non-compliant cases, two cases needing improvement, and eight 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 2021 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	6	25	0	2	8

PFU Group Activities

PFU IT Services Limited, which is running its own environmental management systems, is promoting environmental activities consistent with PFU's environmental management system.

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 IT Services Limited

While only a few community contribution events were held in the midst of the COVID-19 pandemic in fiscal 2021, as part of the activities for the "promotion of an environmentally conscious culture", PFU IT Services promoted participation in "social contribution activities (cleanup activities)" held in the areas shown below.

October: "Rokudoji Beach Cleanup Activity" in Imizu City, Toyama.

November: "Hama Road Supporter (Cleanup Activity)" in Yokohama City, Kanagawa.

During the cleanup of Rokudoji Beach, participants did not come across any large objects, however they did find a lot of small plastic pieces, polystyrene foam, glass pieces, and twigs and other driftwood that had washed ashore. In addition, they found a lot of litter that beach users had thrown away, such as cigarette butts. Through this cleanup activity, the participants once again felt strongly that the piles of litter they found were caused by environmental pollution.

PFU IT Services continue to contribute to environmental activities by actively participating in community events.



Rokudoji Beach Cleanup Activity
(Imizu City, Toyama)



Hama Road Supporter (Cleanup Activity)
(Yokohama City, Kanagawa)



PFU Quality Service Limited

In fiscal 2021, PFU Quality Service set up digital signage across the company to inform employees of the company's contribution to the SDGs, which involved properly sorting waste to recycle as fuel or new materials. By providing information via digital signage, PFU Quality Service continue to raise awareness on reducing and sorting waste.



PFU Life Agency Limited

PFU Life Agency Limited collects and transports the industrial and general waste, then recycles the waste via a qualified waste disposal contractor.

<Status of Permissions>

Industrial Waste Collection and Transport Operations

- 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

Never changing passion, ever changing future

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