

A wide-angle photograph of a calm lake reflecting a dense forest. The trees on the far bank are in various stages of autumn, with some showing bright yellow and orange foliage, while others remain green. The reflection in the water is sharp and clear. A white rectangular box with a curved bottom-right corner is overlaid on the left side of the image, containing the report title.

Fujitsu Frontech Group Environmental Report 2020

Photo by Takashi Yoshida

Our Environmental Priority Themes

Based on “Fujitsu Frontech Group Environmental Policy”, we pursue the rich, beautiful nature and the sustainable social development, cooperating with society.

We, Fujitsu Frontech Group, decide on “Fujitsu Frontech Group Environmental Policy” based on the trend for global environmental issues around companies such as climate change issue and biodiversity conservation, Fujitsu Group Environmental Policy and Medium- to Long-term Environmental Vision, and establish “Fujitsu Frontech Group Environmental Action Plan” based on the policy, and practice it.

In “Stage IX” (FY2019 – 2020), we have established a wide range of action items as new targets, adding “SDGs (Sustainable Development Goals)”, and take actions now.

Fujitsu Frontech Group Environmental Policy

Philosophy

We, Fujitsu Frontech Group, follow Fujitsu Group Environmental Policy and define “eco-friendly business activity” as our basic philosophy. We also promote our efforts for the earth environmental protection, recognizing it as one of the most important business issues.

By utilizing our own technology and creativity as an ICT company, we contribute to the sustainable development of society. In addition, we not only comply with the environmental laws, regulations and standards applicable to our business activities, but also make efforts for the earth environmental protection activities by ourselves.

Moreover, we continuously pursue our advanced efforts by all groups and employees, in order to save a rich nature for future generations.

Principles

1. We reduce the environmental burden at every stage through the life-cycle of our products and service.
2. Through our ICT products and solutions, we help our customers and society to reduce their environmental burden and to enhance their environmental efficiency.
3. We create our top-runner products reinforcing the energy efficiency, resource saving and 3Rs (reduce, reuse and recycle).
4. We always recognize the impact on the environment by our activities, products and service, and comply with the applicable environmental laws, regulations, other requirements and our internal guidelines and so on, in order to fulfill our CSR (Corporate Social Responsibility).
5. Based on the results of the environmental impact assessments related to our activities, products and services, we implement pollution prevention and continuous improvement.
6. We set up and review our environmental objectives and targets on “Our Society” and “Our Business”, and each of us make efforts for the earth environmental protection including measures against climate change and protection of biodiversity with participation of all employees.

President and
Representative Director

Hironmu Kawakami

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Scope

This report applies to facilities and Group companies inside and outside Japan, which are included in our consolidated statement, and we picked up information mainly on the sites whose environmental impacts are significant, taking into account stipulating relevant site(s) to the information in each page.

Report Period

This report discloses mainly the activities in FY2019 (2019/4 – 2020/3), and the indicated data are the final actual values. However, this report also includes some data from the period other than FY2019.

Referred Guideline

We refer to “Environmental Reporting Guidelines 2018” for our information, that Ministry of the Environment issued. (See the “Matrix” in page XVIII.)

How to Report

Only PDF version is available on our Group Website, in terms of “paper-less” that we put forward with.

Issue: November 2020.

Representative of Issue:

Hiromu Kawakami, President and Representative Director.

Representative of Planning & Editing:

Tomoki Ando, General Manager of Environmental Management Center.

Top Message

We, Fujitsu Frontech Group, aim to be a “DX (Digital Transformation) company at the Forefront of Customer”, based on the concept of “Touch, Connect and Change”.



Hiromu Kawakami
(President and Representative Director)

Toward Achieving SDGs

In 2019, powerful Typhoon Hagibis (No. 19) tore through Japan. And, in 2020, Coronavirus Disease 2019 (COVID-19), a massive disaster we have never experienced in the 21st Century, is spreading throughout the world. Due to the pandemic, we face many issues like the economy stagnation accompanied by lockdown, and like a crash of the health systems, inevitably. Now is the time for us to think of how to keep sustainable development of “Social and Economy” as well as “Environment”.

We, Fujitsu Frontech Group, push forward with sustainable business, to address the above issues including the environmental actions such as the adoption to impacts of climate change and the protection of biodiversity.

We, have been solving various issues of customers in the markets such as finance, retail, public facilities, health care, logistics and mobility through solutions and services based on hardware products we have developed. In a post-COVID-19 future, we will be able to contribute to the development of sustainable society and economy, because we expect more and more demands for our solutions and unique technologies like Quick Counter used in financial institutions, palm vein authentication and RFID, which let non-face to face and contactless transaction come true.

Based on the concept of “Touch, Connect and Change”, we aim to be a “DX (Digital Transformation) company at the Forefront of Customer” that realizes safe and secure society where everyone can live snugly, by interacting “Mono (product), Koto (Service-oriented way of thinking)” provided by Fujitsu Frontech Group, linking up people with companies and society, and broadening new different world, so that we are able to grow our own business and to help SDGs to be achieved.

Actions on Important Environmental Themes

We evaluate environmental impacts such as the use of natural resources accompanied by our business activities on a regular basis, so as to identify especially crucial environmental issues for us. After that, we establish “Fujitsu Frontech Group Environmental Action Plan” to address the issues and practice it, in the purpose of protecting global environment sustainably.

In the “Environmental Action Plan IX” (FY2019 – 2020), we made plan to take actions on the 4 categories consisting of “Climate”, “Resources”, “Supply-chain” and “SDGs”. We set the targets such as “To reduce greenhouse gas emissions in our business facilities by 8% or more compared to FY2013.” in “Climate”, “To improve resource efficiency of products newly developed by 20% or more compared to FY2014.” and “To reduce the amount of waste by 27% or more compared to average level of FY2012 – FY2014.” in “Resources”, “To reduce CO₂ emissions derived from product use by 14% or more compared to FY2013.” in “Supply-chain”, and “Development & delivery of SDGs Contribution Solutions and PRs of our activities relevant to ESG (Environmental, Social and Governance)” and “Social activities including protection of biodiversity” in “SDGs”. Now, we push forward with these activities as a unit.

Moreover, we also make efforts on Fujitsu Group Medium/Long-term Environmental Vision “FUJITSU Climate and Energy Vision”, whose goal is to bring the Fujitsu Group’s CO₂ emissions to zero by 2050. In Phase 1 (To reduce CO₂ emissions to 14% versus 2013.), up to now, we have been able to reduce them steadily inside Japan. In Phase 2 (To reduce them to 33% versus 2013.) whose period is from 2021 to 2030, we plan to introduce renewable energy to hit the target in the whole Group.

Corporate Profile

- **Name**
Fujitsu Frontech Limited
- **Established**
November 9, 1940
- **Capital**
8,457 million JPY (as of March 31, 2020)
- **Settlement Term**
March 31
- **Representative**
Hiromu Kawakami,
President and Representative Director
- **ISO14001:2015**
Certificate No.: EC98J2005-D050

- Corporate Governance

Basic Concept

We, recognizing “Fujitsu Frontech Way” as our basic policy, run business in view of our stakeholders including shareholders, employees and business partners, at all times. In addition, we not only pursue the efficiency of business to enhance a corporate brand, but ensure the transparency with sufficient functions to inspect business operation and the internal control system, in the purpose of substantial corporate governance.

Governance Structure

We adopt a “company with audit and supervisory committee”. We aim to make our corporate governance structure more substantial, with further reinforcement of functions of audit and supervision, by establishing Audit and Supervisory Committee and vesting directors with the right of vote at Board of Directors. In addition, we have appointed at least one non-executive director who is familiar with contents and actual conditions of our business to enhance the efficacy of functions of audit and supervision.

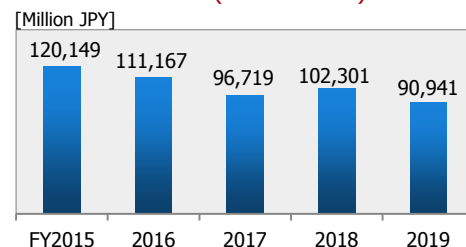
Moreover, to adapt to variable business environment without fail, we, through separation of decision-making & supervision and execution under the executive officer system, are strengthening our management strategy planning function led by President and speeding up business execution.

-Fujitsu Frontech Way

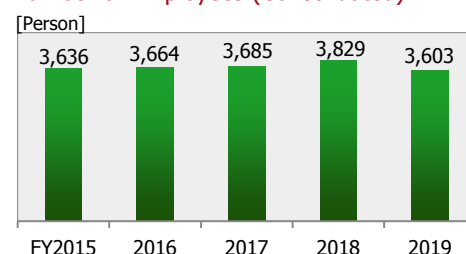
All employees of Fujitsu Frontech Group will mitigate a variety of risks caused by our business on the basis of Corporate Vision, Corporate Guidelines as well as Code of Conduct and Principles defined in “Fujitsu Frontech Way” to fulfil social responsibility.

(The whole Japanese texts: <https://www.fujitsu.com/jp/group/frontech/documents/about/csr/ftecway.pdf>)

- Transition of Sales (Consolidated)



- Number of Employees (Consolidated)



Business Structure

We support the innovation and development at “the Forefront of Customer Business”, through providing comprehensive businesses from products to solution services.

One-stop Business of Products, Solutions and Services

We, Fujitsu Frontech Group, establish one-stop business structure to deliver our products, solutions and services, which consists of 2 segments of “Global Product Business” and “Solution & Service Business”, to propose new shape of business to customer.

In “Global Product Business” whose core businesses are “Mechatronics” and “System Products”, we deliver to global markets with our own know-hows accumulated in financial, retail and public business fields. In “Solution & Service Business” whose core ones are “Service Integration” and “Frontline Solutions”, we deliver new value for customers with total solutions based on both our own cutting-edge technology and ideas from “Koto (Service-oriented way of thinking)”.

[Summary of our Segments]

Segments	
Sub-segments	Main Products & Services
Global Product Business	
Mechatronics	> Mechanical components > Applied equipment
System Products	> ATMs > Banking terminals > System products for outside Japan > System products for public racing
Solution & Service Business	
Service Integration	> ATM & Financial solutions > Industrial solutions > AI solutions > Financial services > LCM services
Frontline Solutions	> Palm vein authentication > RFID and Sensor solutions > Settlement solutions > Mobile systems > Subscription services
Others	
--	> Public display systems > Metal molds and processed parts with high precision cutting

- Bill Recycling Unit
“G610”



- Self-checkout systems
for outside Japan



- Help desk services



- UHF RFID linen tags



Environmental Management System

We establish and operate Environmental Management System (EMS) based on ISO14001, to enhance our environmental performance.

Environmental Management System in Fujitsu Frontech Group

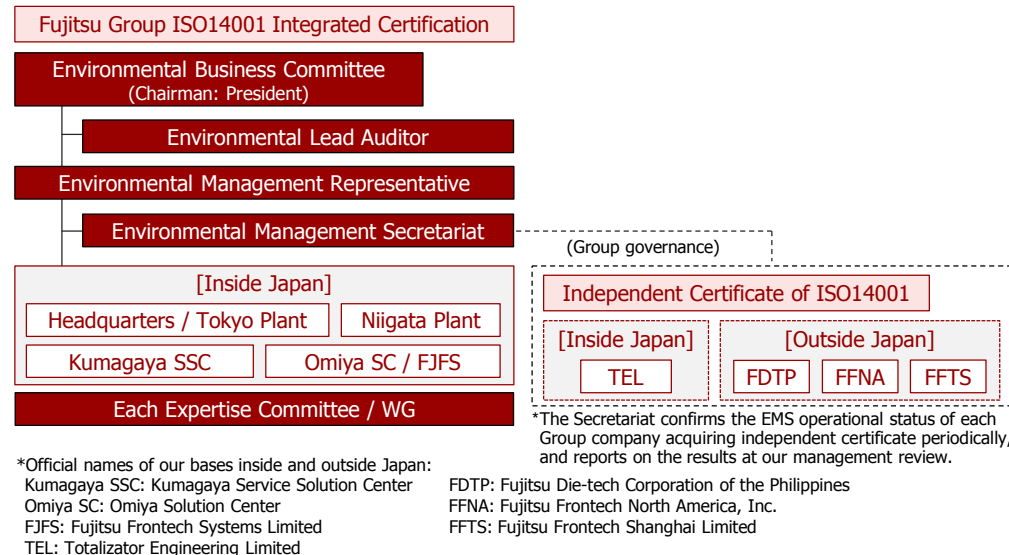
We obtained the certification of ISO14001 for the first time in 1998, recognizing the importance of actions on the environment issues as one of the main responsibilities of businesses. After that, we transited to "Fujitsu Group Integrated Certification" in 2005, so as to realize aims such as "Further reinforcement of Group governance", that Fujitsu Group had set.

Environmental Organization

We organize "Environmental Business Committee" with the approval of our "Business Committee" consisting of Executive Directors and Executive Officers, whose chairman is a president, to discuss comprehensive issues relevant to our environmental business. In this committee, we, for example, review medium- to long-terms issues, make policies, share risks and opportunities in business derived from climate change, and consider the countermeasures, in the purpose of enhancing the environmental business and reinforcing the governance. ("Environmental Business Committee" is regard as one of in-house committees within our "Corporate Governance Structure".)

In addition, we also organize "Environmental Management Committee" whose chairman is Site Controller (assuming the level of executives) at each EMS site. In this committee, we, for instance, discuss the whole environmental activities, review issues at a site level, make policies, share risks and opportunities, and consider the countermeasures.

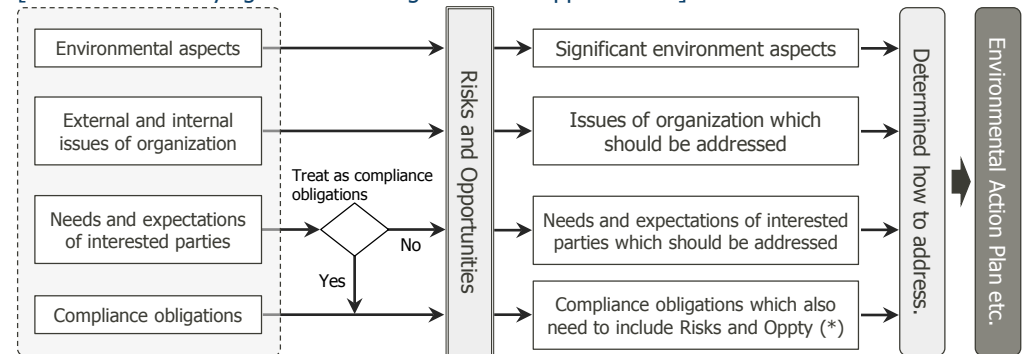
Fujitsu Frontech Group Environmental Organization Chart (As of September, 2020)



Way to Identify and Address Environmental Risks and Opportunities

We, through the EMS established on the basis of ISO14001, identify and evaluate material environmental risks and opportunities, to be determined how to address these issues. In addition, we, based on ISO14001:2015, establish and operate processes to identify risks and opportunities having impacts on our business, which include factors besides "Environment" like "External and internal issues of organization" and "Needs and expectation of interested parties".

[Process of Identifying and Evaluating Risks and Opportunities]



[Risks and Opportunities Determined to Address as EMS Issues (FY2020)]

Risks and Opportunities Determined to Address as EMS Issues			Items in "Action Plan"
- Significant environmental aspects			
1	Electricity	Risk	"Climate"
2	Waste	Risk	"Resources"
- Issue of organization (external)			
1	Cost-up of purchasing energy	Risk	"Climate"
- Issue of organization (internal)			
1	Contributing to SDGs and obtaining the relevant business chances	Oppty	"Climate", "SDGs"
- Needs and expectations of interested parties			
1	ESG (Environmental, Social and Governance)	Oppty	"SDGs"
2	FUJITSU Climate and Energy Vision	Oppty	"Climate"
3	External reputation, initiatives etc. (CDP, SBT, RE100 etc.)	Oppty	"Climate", "Resources" etc.

* "Oppty" is abbreviation for "Opportunity".

Environmental Action Plan

We make "Fujitsu Frontech Group Environmental Policy", establish "Fujitsu Frontech Group Environmental Action Plan" based on the policy as well as "Fujitsu Group Environmental Action Plan", and practice it.

Environmental Action Plan Stage IX (FY2019 – 2020)

Categories	Targets	Scope	FY2020	FY2019		
			1-year KPIs	1-year KPIs	1-year Results	Judge
Climate	To reduce GHG emissions. • Reduce greenhouse gas emissions in our business facilities to 8% or more compared to FY2013 by the end of FY2020.	Headquarters / Tokyo Plant Niigata Plant Kumagaya SSC (*1)	Under 7,236 ton-CO ₂	Under 7,301 ton-CO ₂	6,403 ton-CO ₂	Met
Resources	To promote resource efficiency of products. • Enhance resource efficiency of products newly developed to 20% or more compared to FY2014 by the end of FY2020.	Headquarters / Tokyo Plant	No less than 20%	To enhance resource efficiency	24%	Met
	To reduce waste generations. • Reduce the amount of waste to 27% or more compared to average level of FY2012-FY2014 by the end of FY2020.	Headquarters / Tokyo Plant Niigata Plant Kumagaya SSC	Under 301 ton	Under 301 ton	285.9 ton	Met
Supply-chain	To reduce CO ₂ emissions derived from product use. • Reduce CO ₂ emissions derived from product use to 14% or more compared to FY2013 by the end of FY2020.	Headquarters / Tokyo Plant	No less than 14%	To reduce CO ₂ emissions	17.2%	Met
SDGs	To contribute to SDGs through ICT service. • To contribute to SDGs through ICT business.	Headquarters / Tokyo Plant Niigata Plant Kumagaya SSC Omiya SC / FJFS (*1)	No less than 33 cases (*2)	No less than 30 cases	52 cases	Met
	[Original] Social Activities related to measures against climate change and protection of biodiversity • Support our employees to volunteer social activities with society.	Headquarters / Tokyo Plant Niigata Plant Kumagaya SSC Omiya SC / FJFS	No less than 61 cases	No less than 58 cases	68 cases	Met

*1: "Kumagaya SSC" stands for Kumagaya Service Solution Center, "Omiya SC" stands for Omiya Solution Center and "FJFS" stands for Fujitsu Frontech Systems Limited.

*2: Total action items in 3 themes of (1) Enhancement of understanding SDGs, (2) Communication with our customers and (3) Case studies of "SDGs Contribution Solutions" and PRs of them.

Status of Response to TCFD

We strive to disclose for all stakeholders, based on the Framework of “The Task Force on Climate-Related Financial Disclosures (TCFD)”, with the assessment and management of the risks.

Information Disclosure Based on TCFD’s Framework

Themes of TCFD Recommendation	Status of our Response	Relevant Information
Governance The organization’s governance around climate-related risks and opportunities	<ul style="list-style-type: none"> Review climate-related risks and opportunities and countermeasures at Environmental Business Committee (chairman: President and Representative Director), which is organized with the approval of our “Business Committee”. Make plans for climate-related countermeasures and practice them at Expertise Committee of each site, etc. Discuss the action plan to achieve Medium/Long-term Environmental Vision “FUJITSU Climate and Energy Vision”, with Fujitsu Limited at Environment WG. 	<ul style="list-style-type: none"> > Basic Policy of Corporate Governance > Fujitsu Frontech Way > Environmental Activity Promotion Standard > Environmental Policy > Environmental Action Plan > FUJITSU Climate and Energy Vision
Strategy The actual and potential impacts of climate-related risks and opportunities on the organization’s businesses, strategy, and financial planning	<ul style="list-style-type: none"> Take part in CO₂ zero emission plan of “FUJITSU Climate and Energy Vision”, which was established based on 2°C scenario that, the Initiative (SBT: Science Based Target) setting science-based greenhouse gas reduction targets, recommends. Contribute to low-carbon society, by developing and delivering “Green Products” and “SDGs Contribution Solutions”, whose energy efficiency is excellent. Let “low-carbon business” come true, with the introduction of fuel cell power generators and renewable energy. 	<ul style="list-style-type: none"> > Environmental Policy > Environmental Action Plan > FUJITSU Climate and Energy Vision > In-house energy saving investment plan
Risk Management The processes used by the organization to identify, assess, and manage climate-related risks	<ul style="list-style-type: none"> Assess climate-related risks across the company. Review medium- and long-term risks related to climate change identified through EMS at Environmental Business Committee etc., so as to draw up plans of sustainable development of our business. Respond to climate-related risks in the whole Fujitsu Group, cooperating with Fujitsu Limited. 	<ul style="list-style-type: none"> > Basic Policy of Corporate Governance > Fujitsu Frontech Way > Environmental Activity Promotion Standard > Environmental Policy > Environmental Action Plan > FUJITSU Climate and Energy Vision
Metrics and Targets The metrics and targets used to assess and manage relevant climate-related risks and opportunities	<ul style="list-style-type: none"> Establish the environmental target and objective of “Climate”, as one of the items in “Fujitsu Frontech Group Environmental Action Plan”. Take part in “FUJITSU Climate and Energy Vision” aiming for “the goal of bringing the Fujitsu Group’s CO₂ emissions to zero by 2050, as well as contributing to the achievement of a decarbonized society and the adaptation to climate change”. 	<ul style="list-style-type: none"> > Environmental Policy > Environmental Action Plan > FUJITSU Climate and Energy Vision > Environmental Report > Sustainability Website

[About TCFD]

TCFD stands for “The Task Force on Climate-Related Financial Disclosures”, which was established by Financial Stability Board (FSB) at the request of G20 with the objective to reduce the risk of instability in the financial market due to climate change. It recommends companies to disclose information on 4 themes relevant to climate-related risks and opportunities, which consist of “Governance”, “Strategy”, “Risk Management” and “Metrics and Targets”.

[Response to TCFD in Fujitsu Group]

The Fujitsu Group announced its support for the TCFD recommendations in April 2019 and strives to disclose information in line with the recommendations, including the response to CDP (Carbon Disclosure Project).

(Linked: <https://www.fujitsu.com/global/about/environment/tcfd/>)

FUJITSU Climate and Energy Vision

We, based on The Fujitsu Group Medium/Long-term Environmental Vision “FUJITSU Climate and Energy Vision”, establish the target to reduce GHG (greenhouse gas) emissions, and take actions on climate change.

Actions in Fujitsu Group

As an international framework of measures against global warming starting in 2020, Paris Agreement, which sets a goal of limiting the rise in global average temperature to less than 2°C above the average temperature prior to the industrial revolution, come into effect in November 2016. In order to achieve this, a shift to a decarbonized society will be necessary beginning in 2050.

On the other hand, various changes are taking place in global market as well, and it is expected that regulations on CO₂ emissions will be tighten and other carbon pricing will be applied to more countries, and carbon taxes will rise sharply. In addition, investment taking into account Environmental, Social and Governance (ESG) factors is expanding, which is also exerting a significant influence on market rules.

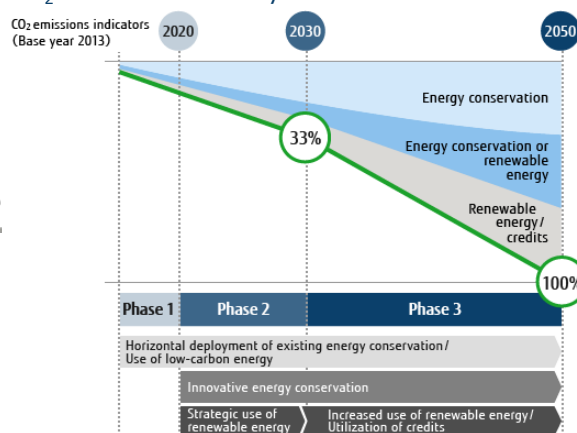
We, Fujitsu Group, established “FUJITSU Climate and Energy Vision” having 3 pillars, namely, “Our Business: Achieve Zero CO₂ emissions”, “Mitigation: Contribute to Decarbonized Society” and “Adaption: Contribute to Measures in Society to Adapt to Climate Change”, and take actions.
(Details: <https://www.fujitsu.com/global/microsite/fujitsu-climate-and-energy-vision/>)



The Fujitsu Group Medium/Long-term Environmental Vision



The Roadmap to Reduce the Fujitsu Group's CO₂ Emissions to Zero by 2050

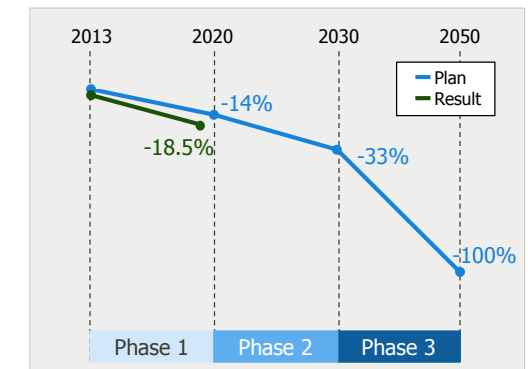


Actions in Fujitsu Frontech Group

In Phase 1 from 2013 until 2020 (To reduce CO₂ emissions to 14% versus 2013.), as of the end of 2019, we have been able to reduce CO₂ emissions to 18.5% inside Japan owing to the facility replacement like LED lightings and highly energy-efficient environmental test chambers.

In Phase 2 from 2021 until 2030 (To reduce CO₂ emissions to 33% versus 2013.), we are planning to introduce renewable energy as well as energy efficient facilities, because we need more drastic countermeasures to achieve the target in the whole Group.

Result of Phase 1



[Scope of the above graph]
Headquarters / Tokyo Plant, Niigata Plant, Kumagaya SSC

Introduction of “fuel cell power generators”

We introduced in Kumagaya SSC, solid oxide fuel cell (SOFC) generators, which are eco-friendly, and have just started operating them since the end of January 2020. This system enables us not only to generate about 50% of electricity consumed there, but to reduce CO₂ emissions to 35% or so compared to the case if we procure 100% of electricity from an electric power company.



Fuel cell power generators (Kumagaya SSC)

Purchase of renewable energy (FFNA: U.S.A.)

FFNA, our Group company outside Japan, purchases wind energy equivalent to 24 MWh as a part of contracted power annually, to facilitate introducing clean energy.

(Details: <https://www.fujitsu.com/jp/group/frontech/en/about/sustainability/environment/climate-action/>)

Actions on SDGs

Through our products and solution services connecting people to ICT with cutting-edge technology, we contribute to SDGs.

Actions on “Environmental Action Plan IX”

We established “To contribute to SDGs through ICT service”, as one of the targets in “Fujitsu Frontech Group Environmental Action Plan Stage IX” (FY2019 – 2020). And, we also established management program for this target, which consists of 3 large themes and 6 small themes, as the matrix below.

In FY2019, we achieved the annual target (results: 52 cases / plan: 30 cases), thanks mainly to the efforts on the development of “SDGs Contribution Solutions” and positive information disclosure on Sustainability Website.

In FY2020, we continue to contribute to achieving SDGs, expanding and deepening the actions.

[Action Plan relevant to SDGs]

(1) Enhancement of understanding SDGs	
1) Internal communication about SDGs	Communicate internally about SDGs through e-learning and intranet, etc., to enhance the understanding of employees toward SDGs in the whole Group companies.
2) Training of specific human resources familiar with SDGs	Train and ensure human resources familiar with SDGs, through the deep understanding at sales promotion meeting / study meeting, and the participation in external workshop etc., and establish the basis to promote SDGs in the whole Group companies.
(2) Communication with our customers	
3) Development of “SDGs Contribution Solutions”	Develop “SDGs Contribution Solutions” which are added with some factors of SDGs (in other words, are linked to some items among 17 goals of SDGs), based on previous “Environmentally Conscious Solutions” certification program.
4) Proposal and sales of “SDGs Contribution Solutions”	Propose our “SDGs Contribution Solutions” to our customers with specific proposal documents, to gain their orders finally.
5) External communication about the actions on SDGs	Communicate with all the stakeholders about our actions on SDGs in a forward-looking manner, through Sustainability Website and Environmental Report, etc.
(3) Case studies of “SDGs Contribution Solutions” and PRs of them	
6) PRs about case studies of “SDGs Contribution Solutions”	Introduce the case studies of “SDGs Contribution Solutions”.

Main Results in FY2019

Internal communication about SDGs

In order to promote and expand actions on SDGs, it is primarily and most important for us to enhance the understanding of employees toward SDGs. Therefore, we took actions like internal communication of top messages, rental service of SDGs-related books and abolishment of internal sales of PET-bottle beverages, aiming to tackle the issues of marine plastic waste and to cultivate employee’s awareness of it.

Training of specific HRs familiar with SDGs

Totally 6 employees who belong mainly to SDGs secretariat, participated in some external workshops to make deeper, understanding about SDGs.

Furthermore, we held an internal workshop inviting a proficient presenter from Fujitsu Limited, and shared the current status such as Circular Economy with totally 42 attendees who are mainly engineers, so that we can expand SDGs-related business in the near future.

Global Trend and Fujitsu Group Visions

Global:

- Common goals: SDGs
- Common targets: Paris Agreement
- Policy: EU Circular Economy(CE)
- Finance: SRI, Banks, principles of insurance
- >> ESG investment
- Consumer's intention: Sharing, etc.

Fujitsu Group:

- FUJITSU Climate and Energy Vision:
- Press release in May 2017: To bringing the Fujitsu Group's CO2 emissions to zero by 2050.
- RE100:
- Joined international initiative “RE100 (®)” in July 2018.
- *Global Renewable Electricity Initiative
- Fujitsu Group is committed to utilize renewable energy.
- By 2050: 100%, -By 2030/45: 40%

An explanation material

Development and release of “SDGs Contribution Solutions”

At the beginning of the fiscal year, we created the scheme of “SDGs Contribution Solutions”. And, we announced it to solution development divisions through a management review. After that, they considered and decided on development plans of “SDGs Contribution Solutions”. And then, they made efforts on the development throughout the year. As a result, totally 9 solutions could be developed and released, compared to 5 ones as an initial target. (Details: See Page XI “Solution & Service Business”.)

Disclosure of activities relevant to ESG

We established Sustainability Website mainly in Japanese on our Group official Website, and have disclosed information on ESG (Environmental, Social and Governance) activities externally, since June 2019. Incidentally, the English version of completed Sustainability Website is scheduled to release in 2020.

In FY2019, we created and released contents such as “Environmental Compliance”, “Actions on Climate Change” and “Contribution to Local Community” in both Japanese and English. The following is the URL of English version: <https://www.fujitsu.com/jp/group/frontech/en/about/sustainability/>



Top image on Sustainable Website

Global Product Business

We make eco-friendly efforts, throughout supply-chain as well as spread our own expertise in Financial, Retail and Public Sector on global basis.

Efforts toward "Environmental Action Plan IX"

Pursing higher energy and resource efficiency

We strive to reduce GHG emissions by enhancing the energy efficiency of product use. And also, we make efforts to mitigate the environmental burden by taking measures to improve the resource efficiency (more compact, lighter, smaller etc.) of products, as well as by seeking for the technologies of resource efficiency based on 3Rs or the like.

Introduction of our Product

Banking terminal "UBT-SP FC400"



This product is to control the whole banking terminals. It enables to connect to many peripherals, with a variety of external interfaces. Besides, in developing it, we realized its miniaturization and weight saving which are top-level in this series, as a result of adopting the latest architecture, optimizing heat dissipation structure to reduce the number of cooling fans and to curb electricity consumptions, changing PCBs to single board type, removing internal cables and reducing the number of parts.

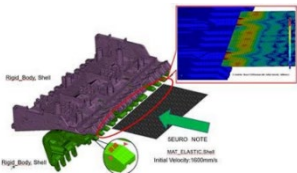
Contributable SDGs:



Contributable factors:

Goal 9: Expansion of eco-friendly technology & enhancement of resource efficiency.
Goal 12: Sustainable management of resources and effective use.

Simulation in Developing Products



An example of simulation

We conduct the simulation many times to develop our products. In developing mechatronics products, we need to coordinate appropriately each domain of mechanism, electrical circuits, software and firmware. The simulation helps us not only to detect errors before conducting combining test in each domain, but to shorten the period of development and to improve the quality.

Green Procurement

Fujitsu Group has established "Fujitsu Group Green Procurement Standard" which frames the basic concepts of procuring eco-friendly parts, materials and products, so that suppliers both inside and outside Japan can promote the green procurement.

Establishment of Chemical substances Control System

We are asking our part suppliers to establish the CMS^{*1} based on "Guidelines for the management of chemical substances in products" which are defined as industrial standard made by JAMP^{*2}, in order to enhance the management of the restricted chemical substances contained in the parts and products in the whole supply chain.

*1: CMS--Chemical substances Management System

*2: JAMP--Joint Article Management Promotion-consortium

Acquisition of the information on chemical substances in products

Fujitsu Group, in cooperation with our suppliers, surveys for the information on chemical substances contained in products, and shares obtained information within internal system, by using such chemSHERPA^{*3} provided by the JAMP, to comply with relevant regulations, and to prevent regulated chemical substances contained in products from affecting human health negatively and from contaminating the environment.

*3: chemSHERPA stands for "Chemical information Sharing and Exchange under Reporting Partnership in supply chain", which is a common scheme to communicate the information on chemicals contained in products.

Communication with our suppliers

We hold a business party for our suppliers, annually.

In this event, we explain to them, the current trend of procurement, procurement policy and new procurement targets.

In addition, we strive to reinforce partnership with them, by giving letters of thanks for specific suppliers, who made outstanding contributions to our business.



Efforts in our Group Companies outside Japan

Our Group companies outside Japan, develop and deliver products which are suitable for particularity and needs of each local area, for example, by cooperating with local partners. They not only contribute to the development of customers and society through business, but make efforts to mitigate the environmental impacts through forward-looking environmental activities.

Resource circulation in Repair Service Business

Fujitsu Frontech North America, Inc. (FFNA: U.S.A.) runs businesses of mechanical components, RFID, and palm vein authentication systems, self-checkout systems or the like, in North America markets.

Besides, in Plattsburgh Plant (New York State), FFNA has been running repair service business to repair mechanical components which customer uses, since 2016.

This service enables customer to continue to use products for a long time, because the proficient engineers repair and recover them.

Furthermore, this service can also facilitate “(Circular Economy*: CE)” which has recently been revitalized mainly in European Region.



Repair work on site



Packing of repaired products on site

Incidentally, we run same business in Kumagaya Service Solution Center inside Japan, Fujitsu Die-tech of the Philippines Corporation (FDTP: Philippines) and Fujitsu Frontech Shanghai Limited (FFTS: China) outside Japan as well, other than FFNA.

* Circular Economy:

This is the economy to continue to use resources in circulation without disposing, by grasping as new “resources”, products and raw materials which have been regarded as “waste” in the economy of conventional “take-make-waste” linear models.

Solution & Service Business

In Solution & Service Business, we expand total solutions based on ideas from “Koto” (Service-oriented way of thinking), through “Co-creation” of services supporting the whole system life-cycle.

Activity in Solution & Service Business

“Built-in Solar Cell Beacon Sensor Platform Service” is the service for retail, food and manufacturing to manage temperature & humidity and location information, by IoT. IoT solutions have recently had the more and more demands, because many customers have issues like the improvement of quality assurance and manpower shortage.

Under such circumstance, this service can solve these issues, with the functions such as automatic recording of temperature & humidity, precision assurance and alert notification.

In particular, this service can help customer respond to HACCP*, of which the obligation will be fully compulsory from June 2021.

In addition, this service not only has advantage of maintenance-free, but helps customer with energy savings, thanks to built-in solar cell.

* HACCP (Hazard Analysis and Critical Control Point):

HACCP is a management system in which food safety is addressed through the analysis and control of biological, chemical, and physical hazards from raw material production, procurement and handling, to manufacturing, distribution and consumption of the finished product.

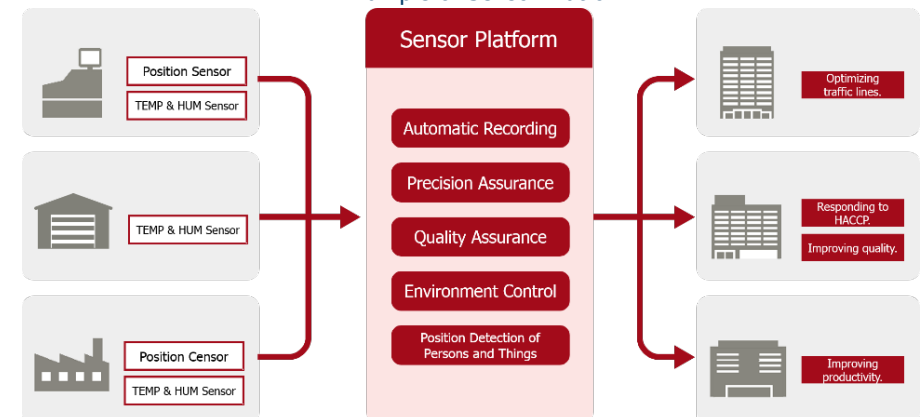
Contributable SDGs:



Contributable factors:

- Goal 7, 9: Powered by solar cells.
- Goal 8 : Safe working environment, etc.
- Goal 9 : Tool of industrial infrastructure.
- Goal 12 : Response to HACCP, etc.

An Example of Sensor Platform



Summary of “SDGs Contribution Solutions”

We develop and deliver solutions combining hardware with software, which include cutting-edge technologies such as palm vein authentication, UHF RFID tags (linen tags) and beacon sensors. These solutions meet a variety of needs and expectations from customer in the markets like finance, retail, public facilities, health care, logistics and mobility as well as support various scenes in society including financial institutions, health care facilities and shopping centers.

“SDGs Contribution Solutions” that we develop, are in order to contribute not only to solving the environmental issues like climate change focused by SDGs, but to sustainable development of society and economy. We have established the scheme by making rules including the criterion of the solutions in our original guideline, and we push forward with this activity now.

* “SDGs Contribution Solution” is not our trademark or the like, but a phrase to communicate to stakeholders, the meaning of “Solution which can contribute to achieving SDGs”.

Results of “SDGs Contribution Solutions” in FY2019

We could develop and release totally 9 solutions in actual, as the matrix below:

[“SDGs Contribution Solutions” in FY2019]

#	Name of Solutions	Environmental improvement rate*
1	Integrated Filing System “Response to Incorrect Sheets” for financial institutions	-51.2%
2	Update of Vote System for public racing facilities	-43.9%
3	Keyword Capture® Account Transfer Package for financial institutions	-46.1%
4	RFID Inventory Management System	-19.9%
5	Reduction of DVDs to Boot by Clone Tool HDD	-62.8%
6	“Continuous Transaction in Time of IC Card Error” System for financial institutions	-51.0%
7	“Concentrated Center Journal on Cloud Platform” System for financial institutions	-69.1%
8	Recovery of Passbook MS for financial institutions	-94.6%
9	Recovery of Card MS for financial institutions	-97.9%

* “Environmental improvement rate” indicates the “reduced rate” after the introduction of solutions versus before it, that is, the comparison with “before-and-after” related to CO₂ emissions derived from travel, logistics, working time, electricity consumption of equipment and so on.

Case Study of “SDGs Contribution Solutions”

RFID Inventory Management System

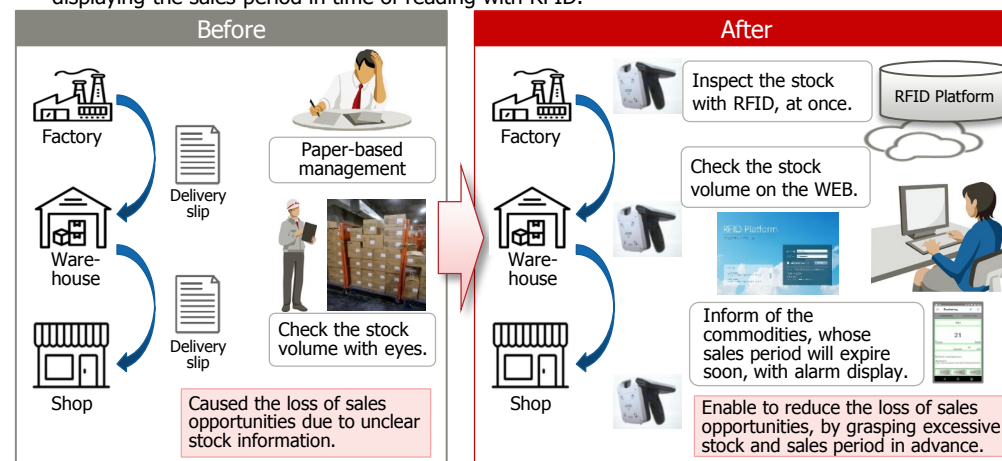
- System summary

This system enables customer to reduce the loss of sales opportunities and to improve work efficiency, by checking if the stock is adequate. For instance, this system can solve the issue, that many commodities had to be disposed due to excessive stock as a result that a factory side without information on stock volume in warehouse had produced a volume of commodities following the direction from HQs, because this system makes it possible to track the status of stock between factory, warehouse and shop as well as to visualize the stock volume and sales period.

This function helps customer to optimize logistics process and to reduce the waste generations as well as the loss of sales opportunities, by operating the factory production and warehouse storage which accord with the stock volume in shops. Furthermore, customer can realize the work efficiency related to the commodity inspection and stocktaking, by changing the way from individual inspection with barcode to batch inspection with RFID.

- Before-and-after of system introduction

- (1) Customer can reduce excessive stock, because this system enables customer to share present information on what-where-how many with all stakeholders, by reading RFID tags (linen tags) attached with commodities and cartons with the reader in time of inspection and by managing the results on cloud servers at once.
- (2) Customer can also reduce the loss of sales opportunities, because this system enables customer to check in time of stocktaking if there are any commodities whose sales period will expire soon, by displaying the sales period in time of reading with RFID.



Contributable SDGs:



Contributable factors:

Goal 9: Introducing eco-friendly technology and industrial process.
 Goal 12: Curbing waste generations by reducing excessive stock.
 Goal 13: Curbing CO₂ emissions by shortening working hours.

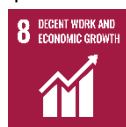
Stakeholder Engagement

We, one by one, promote social activities as "Corporate Citizenship" at each site and Group company inside and outside Japan, with recognition that harmonizing with the environment and society and contributing to the sustainable development of them are ones of our important missions.

Participation in Local Activities

Sales of vegetables by a local agriculture high school (Kumagaya SSC)

Every year, we invite students of a local agriculture high school in the site, and hold "sales of vegetables", which were grown and harvested by them, in a bit to provide them with valuable experiences of practice for sales. Our employees look forward to this event every time, because they can purchase the delicious vegetables at reasonable prices.



A variety of vegetables on the sales

Social activities in cooperation with industrial park (FDTP: Philippines)

In cooperation with Laguna Technopark Inc. (LTI) which is a management company of the industrial park and other companies there, FDTP holds some events like Christmas Gift-giving and environmental education at a local school every year, to communicate with people in local community.



Christmas presents

Participation in the events of local government (Niigata Plant)

In Niigata Plant, we have participated in "Eco Office Award Initiative" sponsored by Niigata Prefectural Government, continuously since FY2016. Through this initiative, we make an annual plan to reduce CO₂ emissions and submit to the government. And, after finishing 1-year actions based on the plan, we report on the results.

Incidentally, we won the prize named "Certification of Eco Office in Niigata" from the government in November 2019, because of us addressing the reduction of GHG in FY2018.

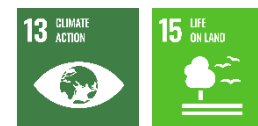


The prize award ceremony

Biodiversity Preservation

Forest preservation (Fujitsu Frontech Systems Limited)

FJFS implements the forest conservation activities at the foot of Akagi Mountain, twice a year continuously from FY2008, when they concluded the Agreement of Activities for Forest Conservation, etc. with Gunma Prefecture and Maebashi-shi.



Cutting grasses by a handy sickle

Protection of mangroves

Every year, many employees of FDTP participate in the protection of mangroves including the tree planting in the purpose of sustaining a rich eco-system.



Commemorative photo

Green fund (Niigata Plant, Totalizator Engineering Limited)

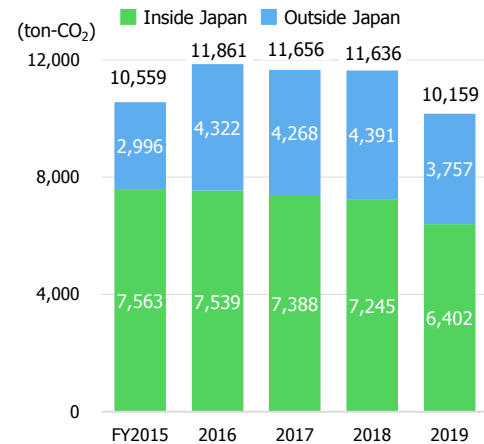
In our Niigata Plant, we have continuously implemented the fund raising every year since FY2007, to support "Green Fund" activity sponsored by a public interest incorporated association named "Niigata Green 100-year Tale Promotion Committee". We provide the employees who donated, with the seeds of bitter melons and morning glories which have grown in "green curtain", in return.

And, Totalizator Engineering Limited (TEL), our Group company inside Japan, has continuously supported "Green Fund" sponsored by a public interest incorporated association named "National Land Afforestation Promotion Organization", since FY2002. TEL has ever donated totally 300,212 JPY. (As of the end of March 2020.)

(Details: <https://www.fujitsu.com/jp/group/frontech/en/about/sustainability/society/#contributions>)

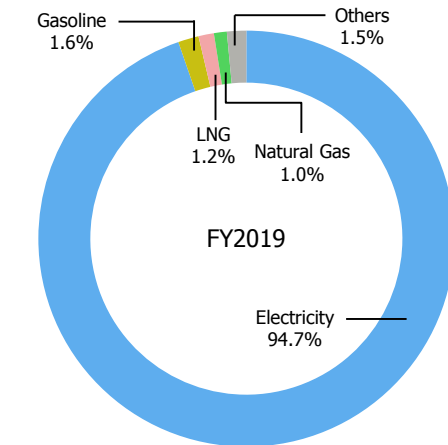
Environmental Data on Climate

(1) Total GHG emissions



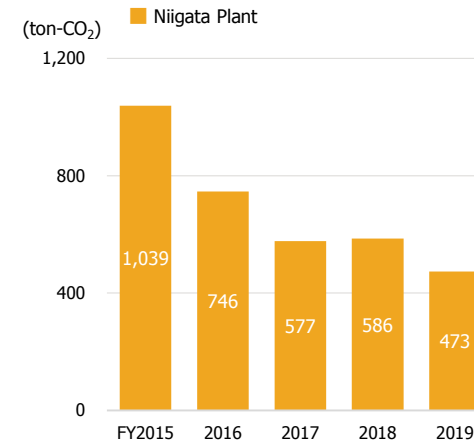
Inside Japan : Tokyo Plant, Niigata Plant, Kumagaya SSC
Outside Japan: FDTP, FFNA

(2) Ratio of energy use

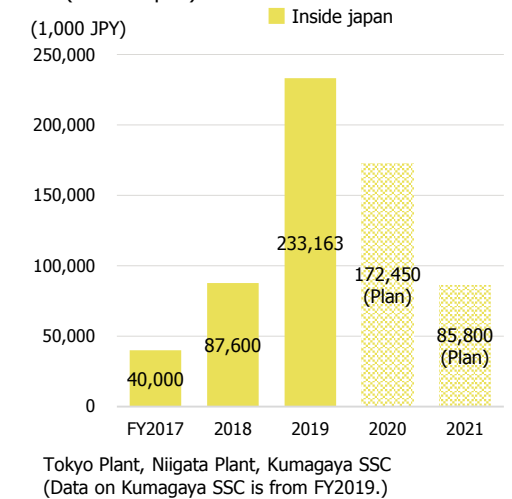


Inside Japan : Tokyo Plant, Niigata Plant, Kumagaya SSC
Outside Japan: FDTP, FFNA

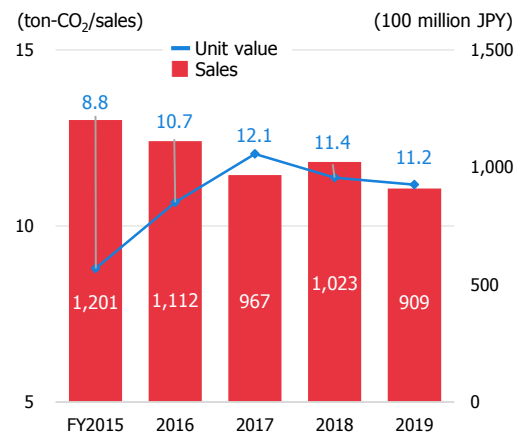
(5) Transportation CO₂ (Niigata Plant)



(6) Investment of energy savings (inside Japan)

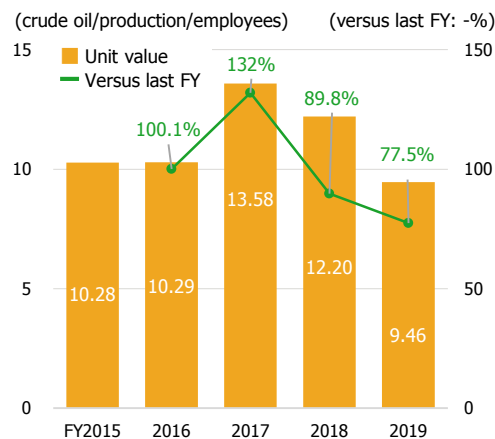


(3) Unit value of GHG emissions / sales



Inside Japan : Tokyo Plant, Niigata Plant, Kumagaya SSC
Outside Japan: FDTP, FFNA

(4) Unit value of Energy Conservation Act (Niigata Plant)



(7) GHG emissions of Scope 1 – 3 (FY2019)

Scopes		Categories	Used Energy	Emissions (ton-CO ₂)
Scope 1	Direct emissions occurring from sources owned or controlled by the company. Most Scope 1 emissions are from stationary combustion.	Production, Repair	Gasoline, natural gas	340
		Development, Sales	Town gas, LPG	57
		Service	LNG, LPG	137
Scope 2	Indirect emissions derived from the generation of purchased energy (mainly, electricity).	Production, Repair	Electricity	6,549
		Development, Sales	Electricity	3,076
Scope 3	Indirect emissions other than Scope 1, 2.	Transportation	Gasoline	473
		Waste	Kerosene	338

Inside Japan : Tokyo Plant, Niigata Plant, Kumagaya SSC
Outside Japan: FDTP, FFNA

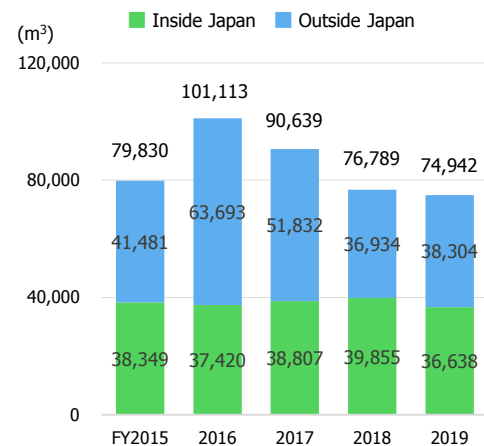
[About GHG emissions in Scope 3]

- 1) Transportation: Calculated the emissions derived from domestic and international transportation (by air, road etc.).
- 2) Waste : Calculated the emissions derived from incineration of plastic and oil waste generated in our activities.

* As for other figures in Scope 3, we will do our best to disclose in the near future, after establishing the calculation ways in order.

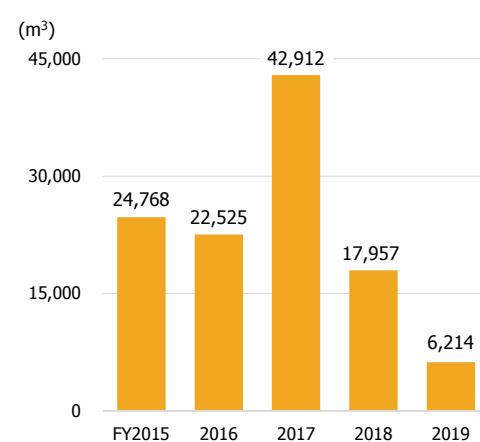
Environmental Data on Water

(1) Tap water



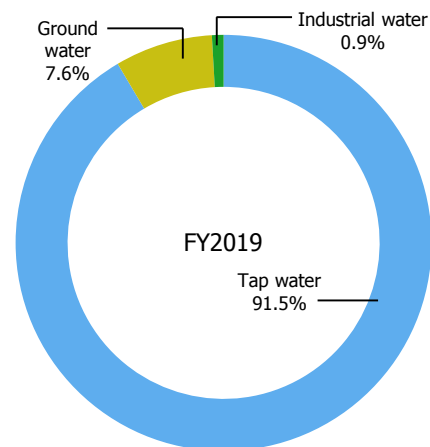
Inside Japan : Tokyo Plant, Niigata Plant, Kumagaya SSC
Outside Japan: FDTP, FFNA

(2) Ground water (inside Japan)



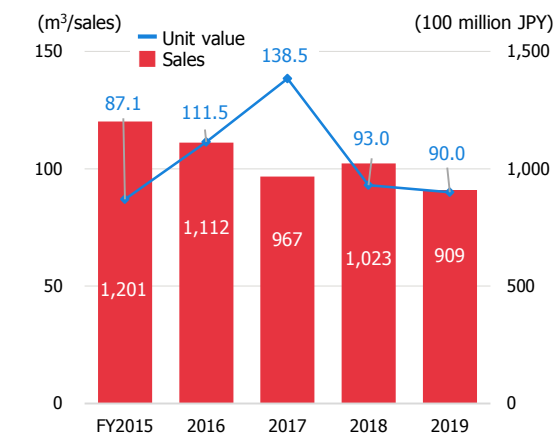
Tokyo Plant, Niigata Plant, Kumagaya SSC

(3) Ratio of used water



Inside Japan : Tokyo Plant, Niigata Plant, Kumagaya SSC
Outside Japan: FDTP, FFNA

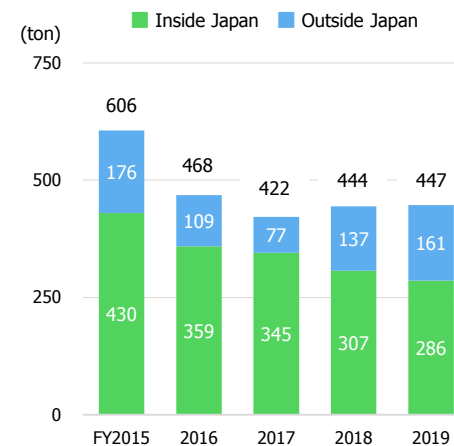
(4) Unit value of used water / sales



Inside Japan : Tokyo Plant, Niigata Plant, Kumagaya SSC
Outside Japan: FDTP, FFNA

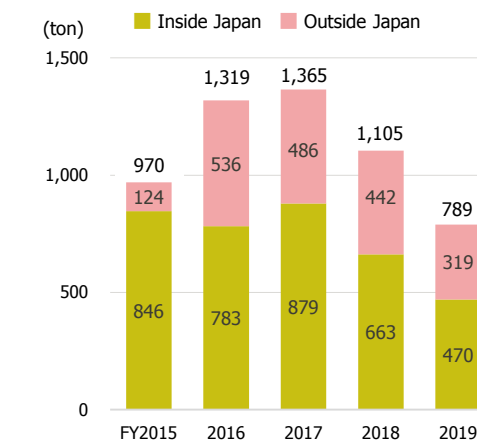
Environmental Data on Resources

(1) Total waste generations



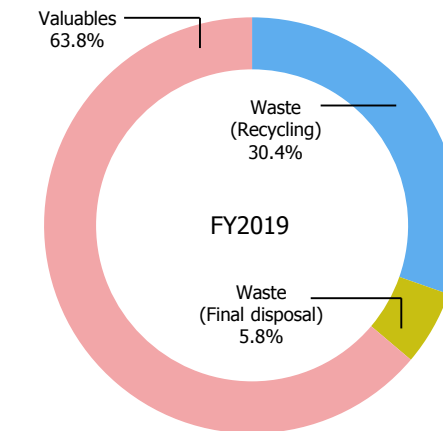
Inside Japan : Tokyo Plant, Niigata Plant, Kumagaya SSC
Outside Japan: FDTP, FFNA

(2) Sold valuables



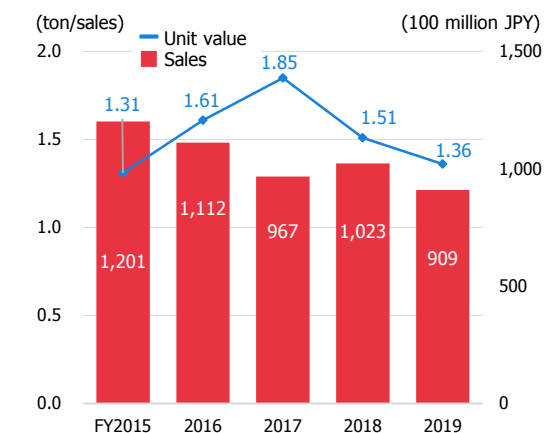
Inside Japan : Tokyo Plant, Niigata Plant, Kumagaya SSC
Outside Japan: FDTP

(3) Ratio of waste & valuables



Inside Japan : Tokyo Plant, Niigata Plant, Kumagaya SSC
Outside Japan: FDTP, FFNA

(4) Unit value of waste & valuables / sales



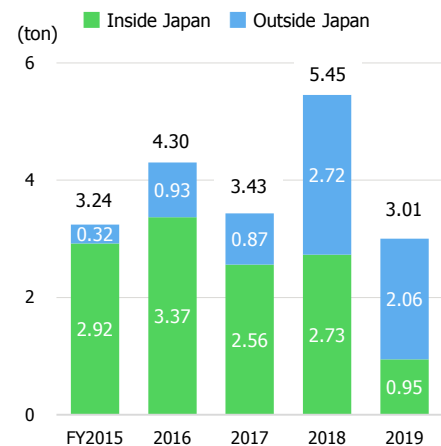
Inside Japan : Tokyo Plant, Niigata Plant, Kumagaya SSC
Outside Japan: FDTP, FFNA

[Status of water stress in countries where we run business (as of September, 2020)]

China has broad areas of "High" and "Extremely high". On the other hand, Japan, U.S.A and Philippines have only areas of below "Medium-high". (Reference: Data by WRI)

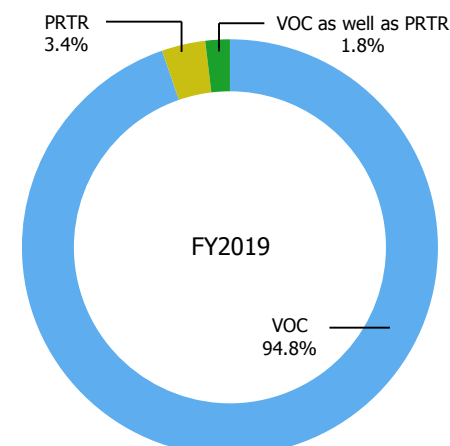
Environmental Data on Chemical Substances

(1) Treated chemicals



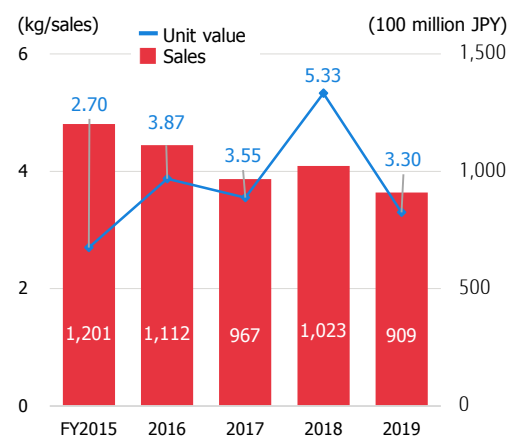
Inside Japan : Niigata Plant, Kumagaya SSC (Except FY2019)
Outside Japan: FDTP

(2) Ratio of treated chemicals



Inside Japan : Niigata Plant
Outside Japan: FDTP

(3) Unit value of treated chemicals / sales



Inside Japan : Niigata Plant, Kumagaya SSC (Except FY2019)
Outside Japan: FDTP

(4) Main chemicals treated (FY2019)

(Unit: ton)		
Names of Chemicals	Types	Volume
Inside Japan (Niigata Plant)		
Isopropyl Alcohol	VOC	0.386
Ethanol	VOC	0.350
1-Methoxy-2-propanol	VOC/PRTR	0.095
Xylene	VOC	0.025
Methanol	VOC	0.011
Outside Japan (FDTP)		
Isopropyl Alcohol	VOC	2.056

Supplements of Environmental Data

Items of Environmental Data	Explanation (Scope, background of data etc.)
Climate (page XIII)	Applied to sites which are included in SBT (Science Based Target) etc. that Fujitsu Group discloses to. And, conversion factor from purchased electricity consumptions to CO ₂ is all "0.57".
(1) Total GHG emissions	Data of FY2015 – 2018 includes data on former Fujitsu Kumagaya Plant.
(2) Ratio used energy (FY2019)	"Others" include Town gas, LPG, Light oil and Kerosene.
(3) Unit value of GHG emissions / sales	Divided (1) Total GHG emissions by consolidated sales.
(4) Unit value of Energy Conservation Act	Values submitted as "Type 2 Designated Energy Management Factory".
(5) Transportation CO ₂	Adopted the calculation formula of Greenhouse Gas (GHG) Protocol.
(6) Investment of energy saving	Data in FY2019 includes the investment for fuel cell power generators.
(7) GHG emissions of Scope 1 – 3 (FY2019)	Scope 3 is based on GHG Protocol and materials by Ministry of Environment.
Water (Left side of page XIV)	Applied to sites which are included in CDP, DJSI (Dow Jones Sustainability World Index) etc. That Fujitsu Group discloses to.
(1) Tap water	Data of FY2015 – 2018 includes data on former Fujitsu Kumagaya Plant.
(2) Ground water	Increase in FY2017 was due to the use to melt much snow in Niigata Plant.
(3) Ratio of used water (FY2019)	"Industrial water" is used only in FDTP (Philippines).
(4) Unit value of used water / sales	Divided the total volume of used water by consolidated sales.
Resources (Right side of page XIV)	Applied to sites which are included in CDP, DJSI etc. that Fujitsu Group discloses to.
(1) Total waste generations	Data of FY2015 – 2018 includes data on former Fujitsu Kumagaya Plant.
(2) Sold valuables	Sold mainly metal scrap and used paper.
(3) Ratio of waste & valuables (FY2019)	"Final disposal" means landfill of the unrecyclable sludge etc.
(4) Unit value of waste & valuables / sales	Divided the total volume of waste and valuables by consolidated sales.
Chemical substances (Left side of page XV)	Applied to sites which are included in CDP, DJSI etc. that Fujitsu Group discloses to. Treated chemicals include "emissions to air", "consumptions", "removed / reprocessed" and "recycling".
(1) Treated chemicals	Data of FY2015 – 2018 includes data on former Fujitsu Kumagaya Plant.
(2) Ratio of treated chemicals (FY2019)	"VOC as well as PRTR" is a chemical subject to both VOC and PRTR.
(3) Unit value of treated chemicals / sales	Divided the volume of treated chemicals by consolidated sales.
(4) Main chemicals treated (FY2019)	Used mainly for cleansing.

[Terms of definition]

- SBT : Cooperative initiative which encourages businesses to establish targets to reduce GHG emissions, which are consistent with Paris Agreement scientifically.
- GHG Protocol : It provides standards, guidance, tools and training for business and government to measure and manage climate-warming emissions.
- CDP : A not-for-profit charity running the global disclosure system for investors, companies, cities, states and regions to manage their environmental impacts.
- DJSI : Stock market indices jointly launched by S&P Dow Jones and RobecoSAM. They select enterprises excellent for sustainable business, by assessing from the viewpoint of 3 core elements, which are Economy, Environmental and Social.
- VOC : Acronyms for "Volatile Organic Compounds".
- PRTR : Acronyms for "Pollutant Release and Transfer Register", governed by METI, Japan.

[About chemicals within the graphs]

They are total values of chemicals whose treated volume is over 100kg per year.

Environmental Compliance

We respond to environmental compliance thoroughly, like setting original criterion stricter than legal ones, to mitigate the environmental risks such as contamination, destruction of ecosystem and climate change to the minimum.

Actions on Climate Change

Response to "Act on Rationalizing Energy Use"

We are designated as a "specified business" (which consumes energy equivalent to crude oil of no less than 1,500kl) defined by "Act on Rationalizing Energy Use", we take actions on the voluntary target required by this act which defines "To let energy consumption per unit be improved to 1% or more on average annually", and report to the government regularly. Incidentally, we have been awarded "S Class (an excellent enterprise)" for 5 consecutive years in "Classification and Evaluation Scheme of Enterprise" which had been established since FY2016 based on the act.

Response to "Act on Rational Use and Proper Management of Fluorocarbons"

We, following the enforcement of "Act on Rational Use and Proper Management of Fluorocarbons" from April 2015, established in-house structure like a special management department, so that we can manage class I specified products (mainly industrial air conditioners and refrigerators) properly, including the calculation of amount of leaked fluorocarbons. And, we also take measures like the simple inspection at each division owning class I specified products thoroughly, to curb GHG emissions caused by leaked fluorocarbons.

(Details: <https://www.fujitsu.com/jp/group/frontech/en/about/sustainability/environment/compliance/>)

Pollution Prevention

We perform environmental measurement including water quality, on a regular basis, and take corrective actions as needed. The main results in FY2019 are, as follows:

Results in FY2019

Soil contamination testing

(Due to changes to the form or nature of land in a certain scale.)

Unit: mg/l

Measured Item	Site	Legal Sta.	Results	Note
Lead and its compounds	Niigata Plant	0.01	Below Sta. - 0.012	This testing was due to the dismantlement of a part of buildings there. Because lead had been detected and exceeded Soil Elution Standard of law at a part of testing points, we reported to the local government soon.

Measurement of ground water (Regular monitoring)

Unit: mg/l

Measured Item	Site	Legal Sta.	Results	Note
Arsenic	Niigata Plant	0.01	Below Sta. - 0.029	This is annual measurement to monitor if there is contamination. We regarded detected Arsenic as natural origin.

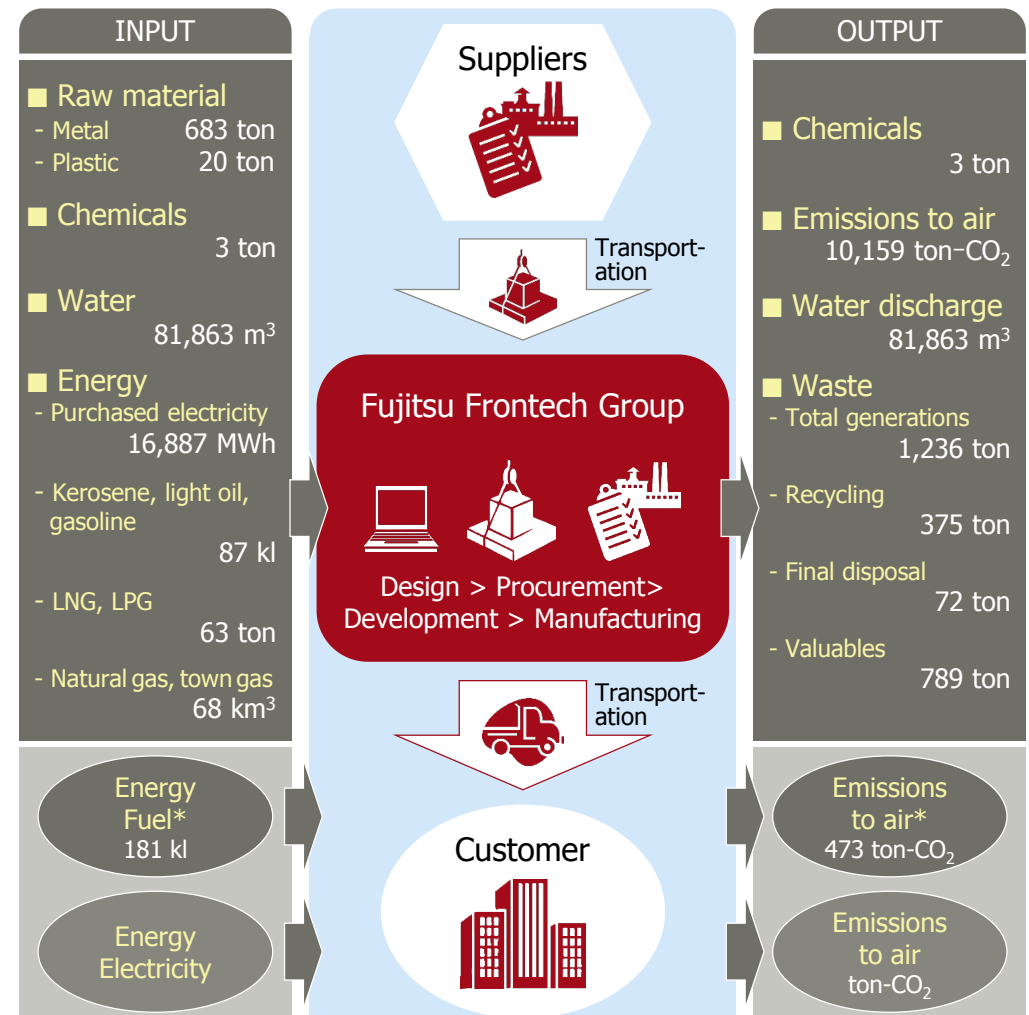
[The other measured items and results in other bases]

We had no any other deviation except the above results including Tokyo Plant and Kumagaya SSC.

Material Balance

We promote our eco-friendly business as well as capture our environmental performance in the whole value-chain.

[Material Balance (FY2019)]



[Scope]

Inside Japan: Tokyo Plant, Niigata Plant, Kumagaya SSC Outside Japan: FDTP, FFNA

* Data on "Energy Fuel" of INPUT and its "Emissions to air" of OUTPUT are only in Niigata Plant.

Business Offices / Main Facilities / Group Companies



Business Offices

- Sales Group
- Omori Office
- Chubu Branch
- Nishinoh Branch
- Kyushu Branch

Group Companies inside Japan

Life Create Limited

Welfare programs, facility management and labor dispatch operations

Fujitsu Frontech Systems Limited

Development of software and solutions



Totalizator Engineering Limited

Maintenance of totalizator systems, development and sales operation services and support systems for public racing courses



Main Facilities

Headquarters / Tokyo Plant



Niigata Plant



Omiya Solution Center



Kumagaya Service Solution Center



Group Companies outside Japan

Fujitsu Frontech Shanghai Limited (FCTS)

Sales of mechanical components, RFID and palm vein authentication systems



Fujitsu Die-Tech Corporation of The Philippines (FDTP)

Manufacturing and sales of metal molds and mechanical components



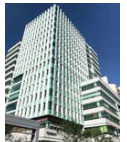
Fujitsu Frontech ChungHo Global Products Co. Ltd. (FCGP)

Development, manufacturing and sales of cash handling equipment (ATMs, CDs, adjustment machines, cash deposit machine, etc.)

Headquarters



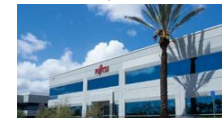
R&D Center



Fujitsu Frontech North America, Inc. (FFNA)

Headquarters (California State)

Sales of mechanical components, RFID, and palm vein authentication systems, and development and sales of self-checkout systems



Plattsburgh Plant (New York State)

Manufacturing of Self-checkout system etc. and mechanical components repair services



(As of September 2020.)

Matrix of Response to “Environmental Reporting Guidelines 2018”

[About the Structure of This Report]

To create this report, we use the data as much as possible to disclose as of now, referring to “Environmental Reporting Guidelines 2018” issued by Ministry of the Environment. The following information is to clarify which page(s) in this report is relevant to which item(s) defined by the guideline:

#	Items	Relevant Pages
(1) Basic information of environmental reporting		
1	Basic requirements for environmental reporting	01
2	Trends in key performance indicators	13 – 15
(2) Items to be reported in environmental reporting		
1	Top management's commitments	01, 02
2	Governance	03, 04, 06
3	Stakeholder engagement	08, 09, 12
4	Risk management	04, 06
5	Business model	02, 03, 09 – 11
6	Value chain management	09, 16
7	Long-term vision	02, 06 – 08

#	Items	Relevant Pages
8	Strategy	02, 05 – 08
9	Methodology for identifying material environmental issues	02, 04, 06
10	The entity's material environmental issues	01, 02, 04 – 08
[Reference] Major environmental issues and their performance indicators		
1	Climate change	05 – 07, 13
2	Water resources	14
3	Biodiversity	05, 12
4	Resource circulation	05, 14
5	Chemical substances	15
6	Pollution prevention	16

* “Environmental Reporting Guidelines 2018” is uploaded on the following Website of Ministry of the Environment:

URL: http://www.env.go.jp/policy/j-hiroba/kigyo/2018Guidelines_E20190412.pdf



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<https://www.fujitsu.com/jp/group/frontech/en/>