



# Environment

## WHAT FUJITSU ASPIRES TO BE

Fujitsu will fulfill its social responsibilities as a global corporate SX leader. In addition to achieving our carbon neutrality goals, we will solve various environmental challenges by providing innovative solutions through co-creation with our customers.

## GOALS FOR FY2025

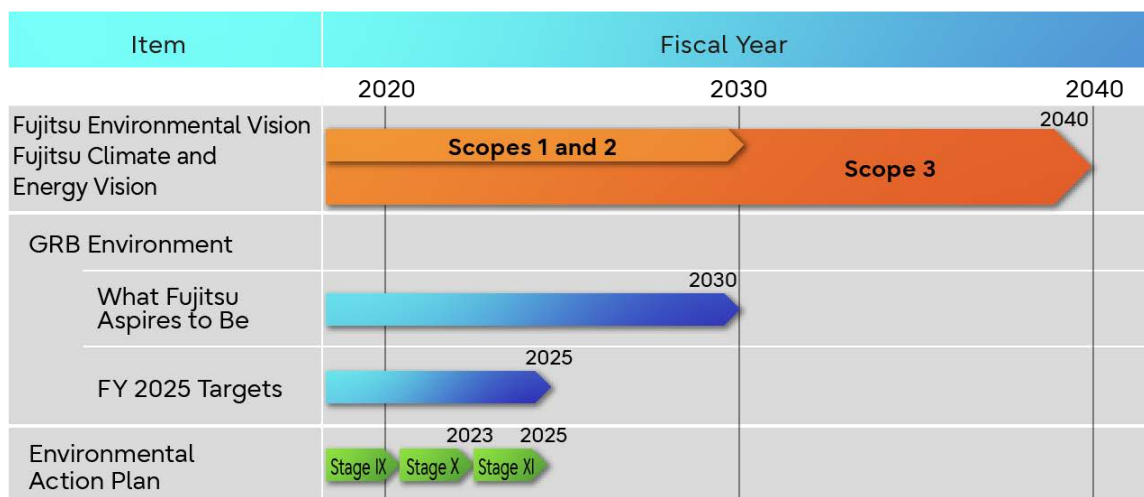
Fulfill our social responsibilities and help to resolve environmental challenges

- KPI\* : ● Reduce greenhouse gas (GHG) emissions from Fujitsu facilities and the supply chain with the aim of achieving Science Based Targets (SBT) net zero
- Avoid risks associated with our business activities and minimize our impact on the environment
  - Help to resolve environmental challenges for customers and society through our business operations

\* Specific targets are set in the Fujitsu Group Environmental Action Plan (Stage XI)

## Introduction

Climate change is a global issue that impacts the sustainability of society, and it is closely related to water and resource recycling issues. Engaging in global environmental conservation is essential for achieving our Purpose. The Fujitsu Group does its utmost to reduce environmental impact and minimize risks throughout the value chain, and we contribute to the realization of a sustainable society by solving environmental issues together with our customers.



Environmental Vision, Targets, and Other Milestones Achievement Timeline

# To Reduce GHG Emissions in Accordance With 1.5°C Target

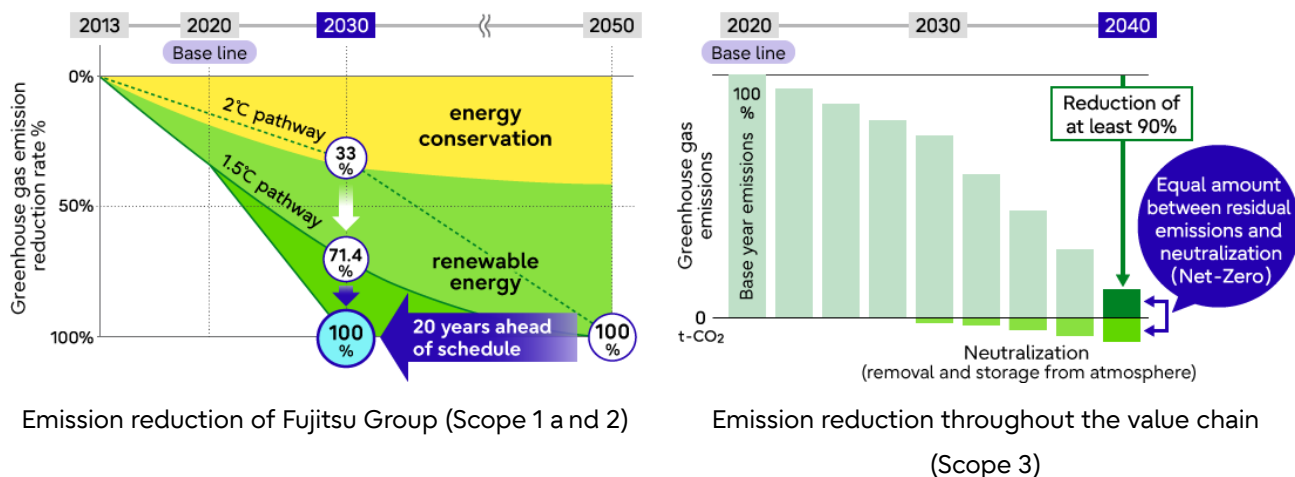
## Updating Medium- and Long-term Goals

In May 2017, the Fujitsu Group formulated the Fujitsu Climate and Energy Vision as our environmental vision. In August 2017, we acquired Science Based Target (SBT) initiative validation (2°C-aligned) for our reduction target by 2030. As the movement toward carbon neutrality accelerated, we reconsidered the role that the Fujitsu Group must fulfill, and in April 2021 we raised our GHG emissions reduction target for 2030 from a 33% reduction compared to FY2013 to a 71.4% reduction. This reduction target has been validated as 1.5 °C-aligned by SBTi.

In order to accelerate decarbonization in the global community together with our supply chain, we have moved up the Scope 1 and 2 targets deadline for 100% reduction by 20 years from the previous FY2050 to FY2030. Furthermore, we have decided to aim for Net-Zero emissions in the entire value chain, including the supply chain (Scope 3), by FY2040.

To ensure these targets, we will follow the Fujitsu Group Environmental Action Plan (Stage XI) that we created as our activities through FY2025.

(Our Net-Zero target for FY2040 from the base year of FY2020 has been validated by the SBTi in June 2023.)



Roadmap to Net-zero

## Initiatives for Achieving Goals

Since 2018, the Fujitsu Group has been a member of the international initiative RE100, which aims to popularize and expand renewable energy.

Previously, we focused our sites on Europe and the United States. In April 2021, however, in anticipation of full-scale introduction in Japan, we switched all electricity used in the Fujitsu Technology Park (former Kawasaki Plant), the largest scale in the Fujitsu Group, to renewable energy as Fujitsu's flagship model.

Furthermore, in April 2022, Fujitsu Australia signed the largest renewable energy power purchase agreement (PPA) in the Group, accounting for approximately 47% of its FY2023 annual power consumption. We will continue to systematically procure power from renewable sources and proactively invest in power sources with additional potential, such as power purchase agreements (PPAs), to help expand the use of renewable energy in society as a whole.



Exterior of Fujitsu Technology Park (former Kawasaki Plant)



Sapphire Wind Farm  
Largest wind farm in New South Wales operated by CWP Renewables

- [Fujitsu Group's Largest Facility to Source 100% of its Energy Needs from Renewables, Demonstrating Commitment to Achievement of RE100](#) >
- [Fujitsu Australia signs the group's largest renewable energy power purchase agreement](#) >

## Avoiding Risks Associated with Business Activities and Minimizing Environmental Impact

For more information, click here

- [Response to Environmental Risks](#) >
- [Saving and Reusing Resources in Products and Circular Economy Initiatives](#) >
- [Reducing the Amount of Water Used](#) >

## Examples of How Our Business Helps Solve Environmental Issues for Customers and Society

For more information, click here

- [Contributing to solving environmental challenges for customers and society through business](#) >

# Environmental Management System

We are continuously working to improve our ISO14001 <sup>(\*1)</sup> based Environmental Management Systems and to promote Group-wide environmental management.

(\*1) ISO14001 :

Environmental Management Systems (EMS) standard determined by the International Organization for Standardization (ISO). Certification is granted to environmentally conscious organizations that develop systems for ongoing reductions in their environmental footprint.

## Fujitsu Group's EMS

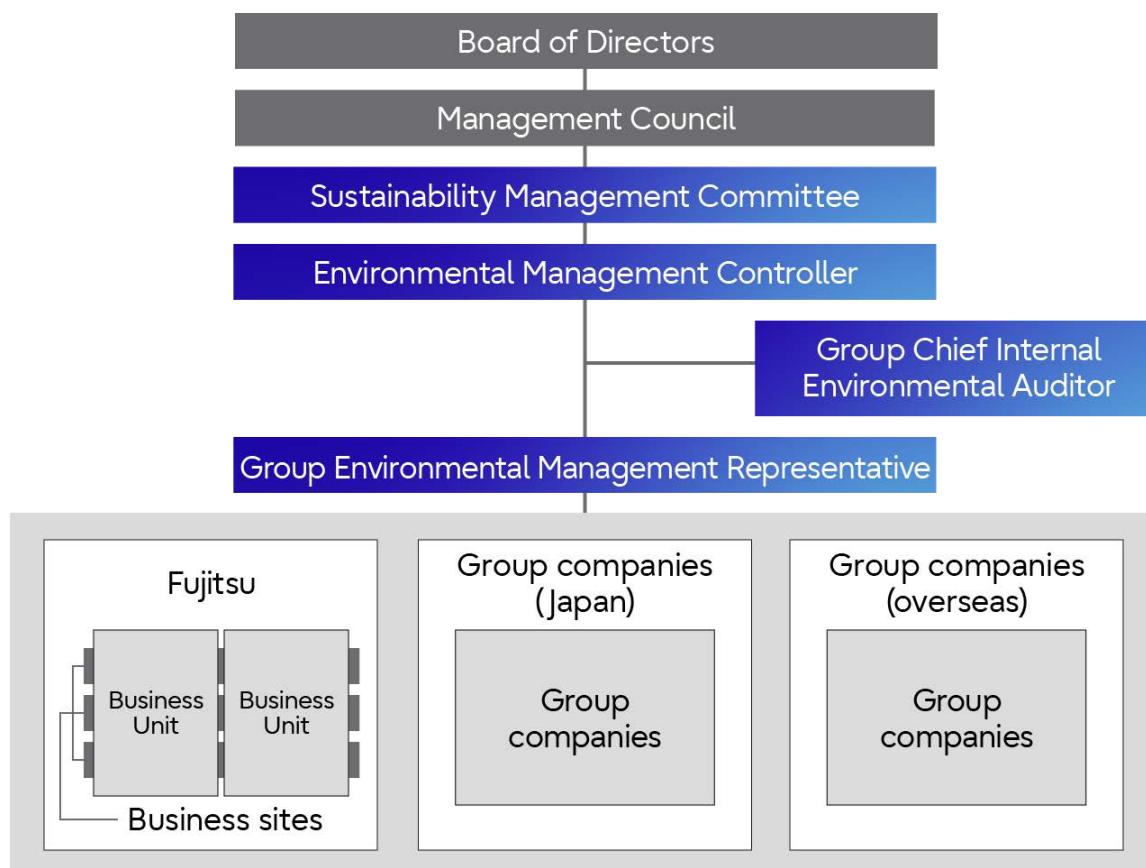
Fujitsu Group has constructed EMS based on the ISO 14001 international standard and is promoting environmental improvement activities across the Group. After acquiring ISO 14001 certification for consolidated subsidiaries in Japan at the end of FY 2004, we expanded this effort to include overseas subsidiaries and acquired global integrated certification at the end of FY 2005. Subsequently, the overseas subsidiaries switched to individual certification.

## Environmental Management Framework

In April 2020, Fujitsu Group set up the Sustainability Management Committee, which leads the charge for management which takes sustainability initiatives into account. The Sustainability Management Committee has established major sustainability issues which are common globally (Global Responsible Business: GRB) and is working to address them, and the environment is one of those to be addressed.

In order to promote environmental activities, we consider medium- and long-term issues, formulate policies, share business risks and opportunities due to climate change, consider ways to respond, and report regularly to the Sustainability Management Committee in order to improve EMS and strengthen governance. Based on that, final approvals on environmental management at the Fujitsu Group are made at meetings of the Management Council. We have in place environmental organizations in charge of specific issues, composed of relevant parties that go beyond the framework of business groups and business units.

Through the promotion structure shown in the figure below, we are moving swiftly to popularize initiatives for addressing environmental issues throughout the Group.



Environmental Management Framework

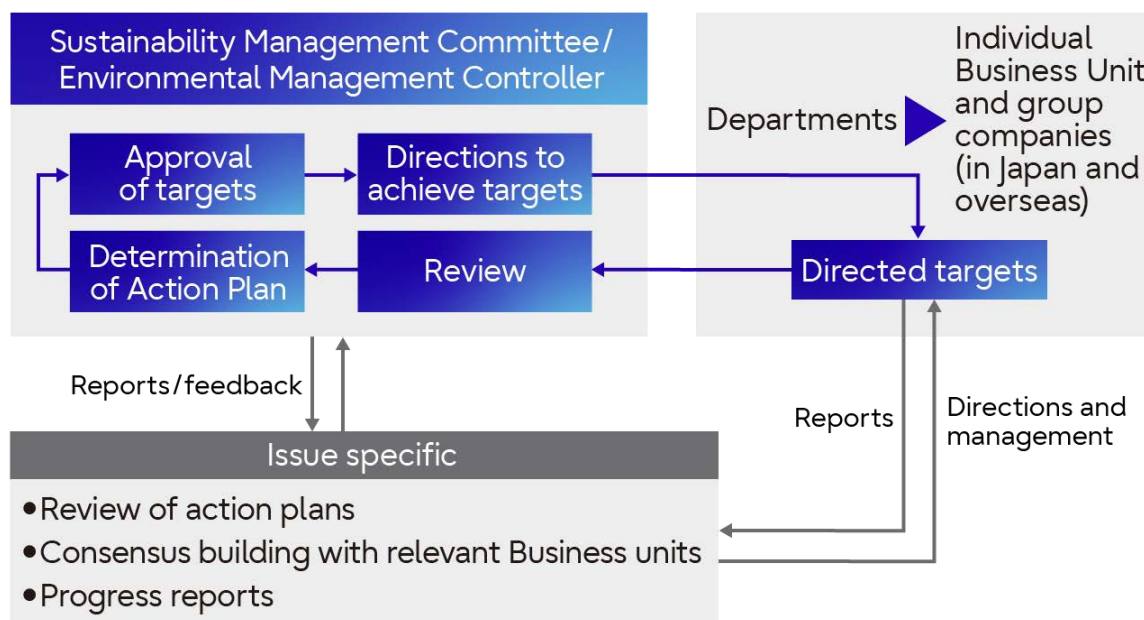
## Constructing and Operating Environmental Management Systems

The Fujitsu Group has constructed EMS based on the ISO 14001 international standard and is promoting environmental improvement activities across the group. By constructing EMS worldwide, the Fujitsu Group further strengthened its Group governance. This also allows the Group to promote even more efficient and highly effective environmental activities, including understanding the state of activities, legal compliance, and emergency response. As of March 2024, Fujitsu and 22 domestic Group Fujitsu companies had acquired ISO 14001 Group Integrated Certification.

## Activity Flow

The Sustainability Management Committee deliberates on the status of environmental activities related to the entire Group, the achievement status of targets, and new activities, which are all regularly reported by the environmental activities promotion organization. For example, the committee determines the directions to be taken for reduction of energy consumption and CO<sub>2</sub> emissions, countermeasure for environmental risk, and other environmental medium-to-long term visions. The Sustainability Management Committee also conducts environmental management reviews and is exercising approval authority for the Fujitsu Group Environmental Action Plan.

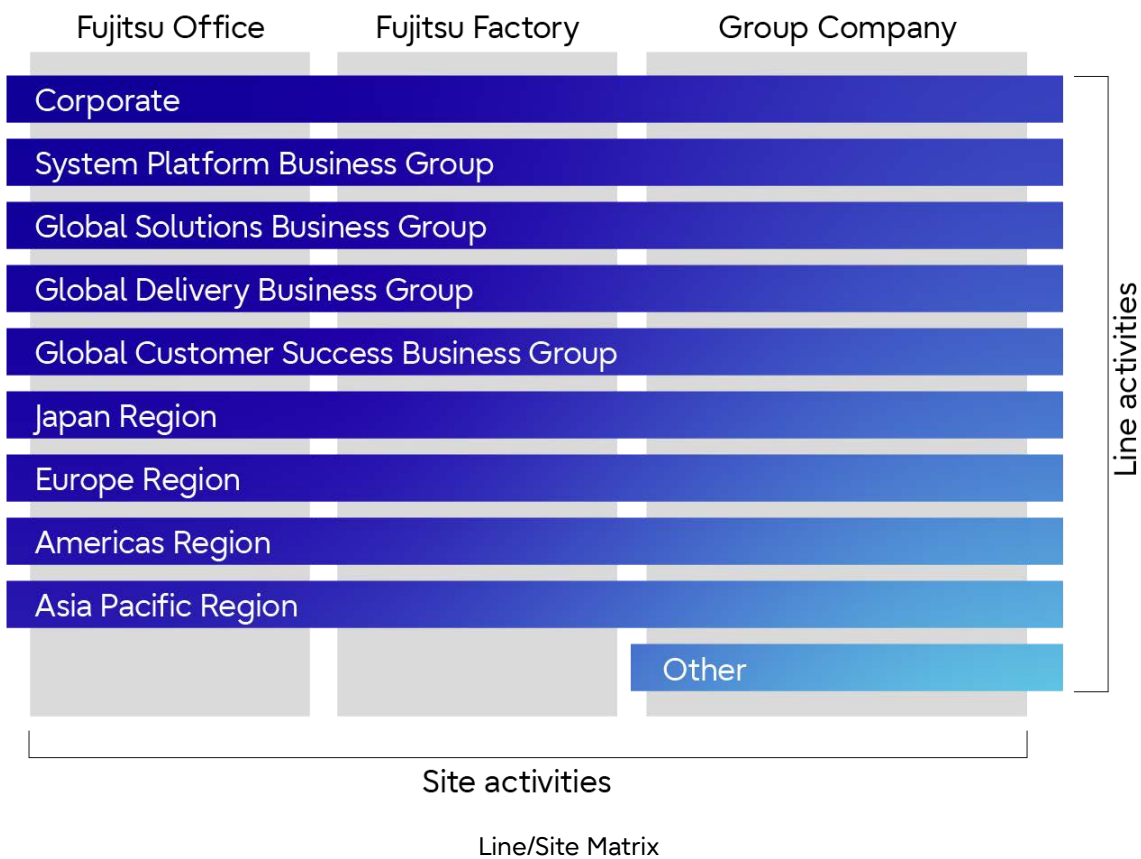
Organizations in charge of issue-specific targets (e.g., energy, greenhouse gases, waste, water) address those matters professionally, identify areas for improvement based on performance data, consider and promote targets in the Environmental Action Plan, and check the progress of the targets. After receiving progress reports from the organizations, the Environmental Management Controller approves the status of activities and suggestions of future focuses, etc., and instructs all organizations to implement the necessary initiatives. To further disseminate these activities and improve skills, we continually provide environmental training/ education and annual briefing on topics such as climate change, resources (including water) and waste.



Activity Flow

# Management Based on the Line/Site Matrix Structure

The Fujitsu Group carries out its environmental management within a matrix structure combining (1) “line activities” directly tied to the business operations of various Business Groups and companies (including development of eco-friendly products and the expansion of environmental contribution solutions) and (2) “site activities” to tackle common themes affecting each factory or business location (such as energy conservation and waste reduction). In this way we carry our environmental management according to the same framework as our management, while also reducing the environmental footprint generated by our business activities and the sale of our products and services.



- [Environmental Management Initiatives \(Case Studies\)](#) >

# Environmental Management Initiatives (Case Studies)

## Operations Utilizing ICT

The Fujitsu Group actively utilizes its own ICT-driven environmental management tools to visualize and boost the efficiency of its environmental management.

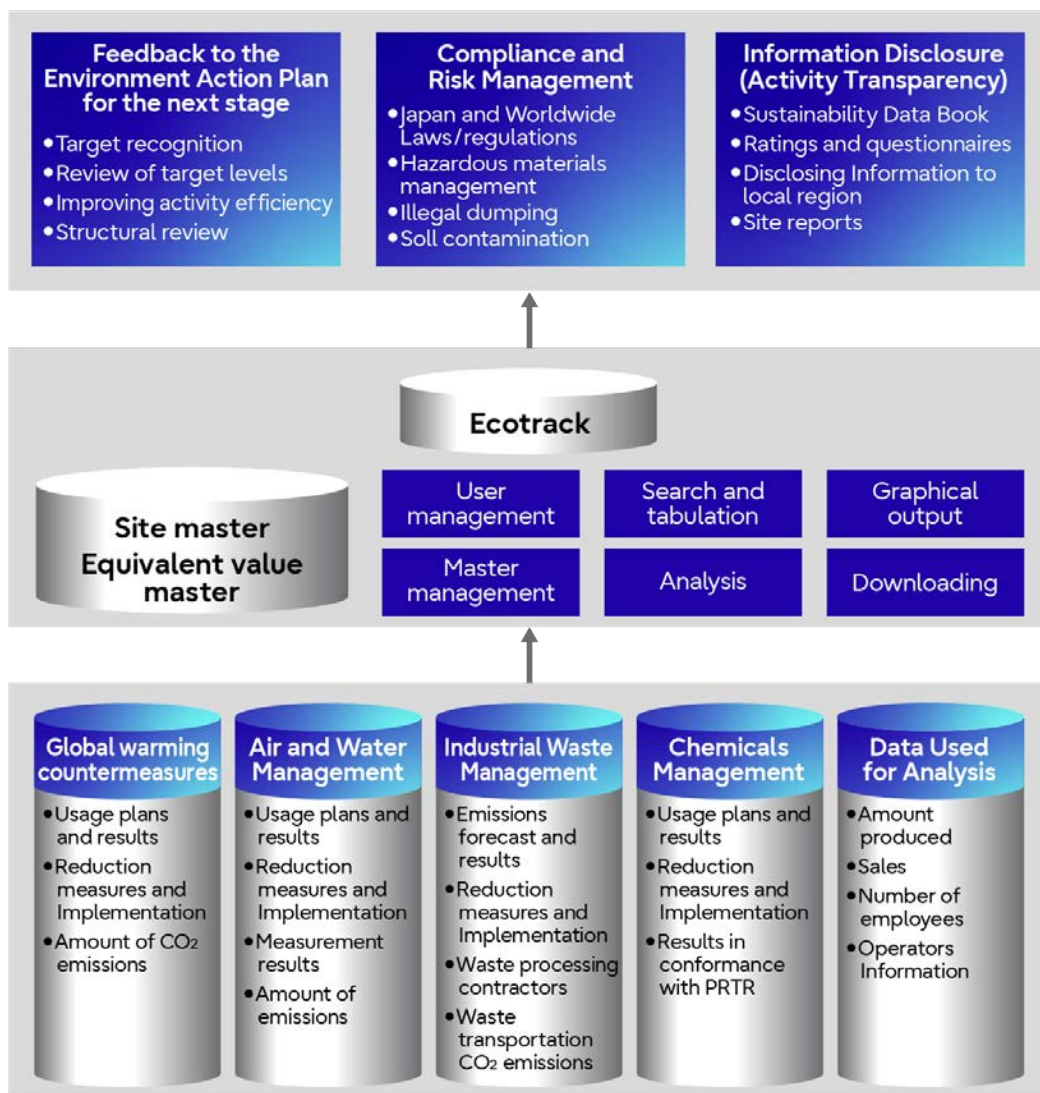
## Environmental Management Systems (EMS) Operations Using ICT

We are working to improve the efficiency and visibility of environmental management by making full use of the Global Environment Database System (Ecotrack), which can centrally manage aspects such as planning, performance, and policy information at business sites scattered throughout the world, and the ISO 14001 Green Management System (GMS), which centrally manages compliance and risk management status to support Environmental Management Systems (EMS) operations.

Additionally, the communication infrastructure of all companies in the Fujitsu Group is used for EMS operations. For example, we try to conduct smart communication in our EMS operations, through activities such as using remote video conferencing systems to conduct EMS briefings.

## Using the Global Environment Database System

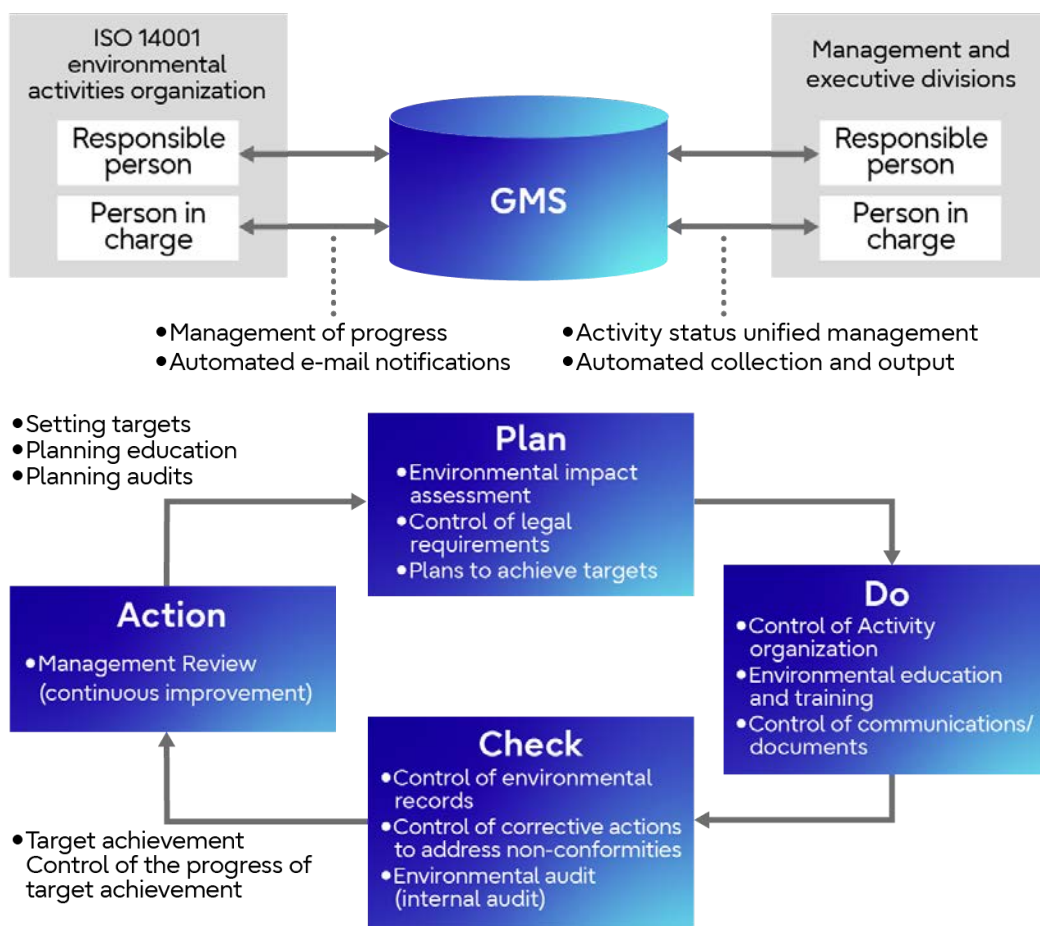
The Global Environment Database System (Ecotrack) is used to gather information about the environmental footprint (performance) of Fujitsu Group companies and business sites and centrally manage aspects such as planning, performance, and policy information.



Global Environment Database System

## Using the ISO 14001 Green Management System

The Fujitsu Group uses the ISO 14001 Green Management System (GMS) to exercise unified control over the operational status of the EMS concerning matters such as the status of improvements and the state of compliance with regard to items pointed out by internal audits, communications activities, direct and indirect effects identified in environmental impact assessments, and the setting of environmental targets. Through the GMS, we can manage corrective measures and objectives with certainty, and it has been effective for continuously improving our activities and reducing risks.



ISO 14001 Green Management System

# Implementing Environmental Audits

## Internal Audit Implementation and Results

The Fujitsu Group conducts internal audits, a requirement of ISO 14001. To ensure the objectivity and independence of internal audits, the Internal Control and Audit Office takes the lead, allocating internal auditors who belong to Fujitsu or Fujitsu Group companies and carries them out. For our manufacturing sites, all audits were conducted remotely in FY2020 and FY2021 because of internal travel restrictions due to COVID-19. As restrictions were eased in FY2022, on-site audits were conducted at 10 sites, with that number further increasing to 22 in FY2023. For non-production sites, we continued to use remote audits, focusing on document confirmation.

In FY2023, we carried out internal audits at a total of 81 business sites in Japan, including the plants and offices of Fujitsu and its Group companies.

When conducting audits, we closely examined the results of internal audits and external audits from the previous fiscal year, looking at four policy points, including Environmental Action Plan (Stage XI) and compliance with laws and regulations. There were no findings of minor defects (non-conformity) and 10 observations (conformity). Of the observations, with the exception of management risk in a specific group that required timely support and a reputation risk regarding the demolition of an aging building, no overall major risks were found.

## External Audits and Results

To maintain our ISO 14001 certification, we are carrying out external audits by a certifying body. In FY2023, we were audited in Japan by the Japan Audit and Certification Organization for Environment and Quality (JACO). As a result, there were 30 opportunities for improvement and zero findings. We shared information about those opportunities within the Group, and are working to improve our response.

Table: Number of Findings by Audits

	FY2021 (Japan)	FY2022 (Japan)	FY2023 (Japan)
Number of findings by internal audits	7	12	10
Number of findings by external audits	0	0	0
Number of opportunities for improvement	33	36	30

## Compliance with Environmental Laws

There were no major legal or regulatory violations or accidents with major impact on the environment in the Fujitsu Group during FY2023.

# Response to Environmental Risks

## Environmental Risk Management Structure

The Fujitsu Group built and operates a group-wide risk management system to identify, prevent, and mitigate a variety of potential risks, or prevent their recurrence, including issues related to climate change and environmental pollution. In addition to the Risk Management & Compliance Committee, which reports directly to the Board of Directors, and Risk Management & Compliance Officers at each Fujitsu division and Group company in Japan and overseas, we have regional Risk Management & Compliance Committees, to build a structure where these organizations cooperate with each other to promote risk management and compliance throughout the Fujitsu Group, both in terms of preventing potential risks and responding to risks that have emerged. The Committee identifies, analyzes, and assesses key risks associated with the business activities of each Fujitsu division and Group company in Japan and overseas (focusing on 33 risks considered to be important to the Group), and formulates and reviews the countermeasures for these risks after confirming the status of countermeasures for avoiding, mitigating, transferring, or retaining them. The Committee makes regular reports to the Board of Directors about key risks that have been identified, analyzed and assessed, using methods such as the creation of visualized rankings and maps which take the degree of impact and likelihood of occurrence into account. In addition, we have put response processes into place in the event that risks become tangible, despite the implementation of various measures. Each division and Group company will immediately report to the Risk Management & Compliance Committee about any key risks that become tangible, such as natural disasters, accidents, product accidents or failures, system or service problems, compliance violations such as fraud, information security incidents, or environmental problems.

We also leverage the group's Environmental Management System (EMS), which is based on ISO14001, for minimizing risks to the environment through continuous improvements.

- [Risk Management](#) >
- [Environmental Management System](#) >

# Efforts to Minimize Risks to the Environment

## Dealing with Risks Related to Climate Change

There is a possibility of significant impacts on our business continuity from increases in the frequency and effects of natural disasters as a result of recent climate changes. For that reason, we have formulated a business continuity plan and are devoting effort to continually revising and improving the plan.

In addition to risks such as implementation of stricter regulations for greenhouse gas emissions and a carbon tax, there is demand from customers and society for contribution to carbon neutral. This creates a risk of increasing the energy cost incurred by the Fujitsu Group, as well as the cost required to comply with regulations related to measures for reducing greenhouse gas emissions. Additionally, if climate change countermeasures are insufficient, there is a risk of harm to our corporate reputation or a disadvantage at bidding.

In order to minimize these risks, we are conducting short-term, medium-term and long-term risk analysis/response within our company-wide risk management structure. As the trend toward carbon neutrality in the global community as a measure against climate change, we have obtained net-zero target certification from the Science Based Targets initiative (SBTi). We will further raise the 1.5°C level we acquired in fiscal 2021 and aim for net-zero by FY 2040.

In accordance with the recommendations issued by the Task Force on Climate-Related Financial Disclosures (TCFD) in 2017, the Fujitsu Group analyzes and discloses risks associated with climate change that may have an impact on its business and financial strategies. Refer to the table below for the major potential risks and responses currently identified.



## Risks Associated with the Transition to a Low Carbon Economy, and Our Response to Them

Policy/Legal Risks	<ul style="list-style-type: none"> <li>● Risks: Increase in cost in order to respond to the strengthened laws and regulations on greenhouse gas emissions and energy use (such as a carbon tax), and diminished corporate value in the event of a violation.</li> <li>○ Response: Complete compliance with laws and regulations through EMS. Continual reduction of the amount of GHG emissions through steady implementation of Science Based Targets and the Environmental Action Plan.</li> </ul>
Technology Risks	<ul style="list-style-type: none"> <li>● Risk: Unrecovered investments and market share decline in the event that the company lags behind in a fierce competition in technological developments toward a carbon-free society (such as energy-saving performance and low-carbon services).</li> <li>○ Response: Enhance development of energy-efficient products and energy-efficient enabling technologies, solutions, and services through steady implementation of Science Based Targets and our Environmental Action Plan.</li> </ul>
Market Risks	<ul style="list-style-type: none"> <li>● Risk: Losing business opportunities if products, solutions, and services do not meet energy-saving performance needs.</li> <li>○ Response: Enhance development of energy-efficient products and energy-efficient enabling technologies, solutions, and services through steady implementation of Science Based Targets and our Environmental Action Plans.</li> </ul>
Risks to Reputation	<ul style="list-style-type: none"> <li>● Risk: Decreased corporate value and increased response costs associated with a negative stakeholder perceptions of the status of implementation of climate change mitigation efforts (e.g., improving renewable energy adoption rates).</li> <li>○ Response: Enhance measures to counteract climate change and promote reduction of environmental footprint through steady achievement of the group's Science Based Targets and Environmental Action Plan.</li> </ul>

## Climate Change Related Risks in the Supply Chain, and Our Response to Them

Upstream Supply Chain	<ul style="list-style-type: none"> <li>● Risk: A temporary suspension of the suppliers' business activities due to the occurrence of severe natural disasters such as large-scale floods, sudden heavy downpours, and lightning strikes, which affects the procurement of materials.</li> <li>○ Response: Conduct surveys of the business continuity capabilities of suppliers and procure materials from multiple sources, as well as implement other measures.</li> </ul>
Downstream Supply Chain	<ul style="list-style-type: none"> <li>● Risk: Losing business opportunities due to the inability to obtain environmental labelling, which is a green procurement requirement of customers.</li> <li>○ Response: Conduct trend surveys and risk assessments of the environmental labelling scheme. Develop and provide top-level energy-efficient products through steady implementation of Science Based Targets and our Environmental Action Plan.</li> </ul>

## RELATED INFORMATION



- [Fujitsu Group Responses to the CDP Climate Change Questionnaire 2022 \(PDF link\)](#) 
- [Fujitsu Group Responses to the CDP Climate Change Questionnaire 2023 \(PDF link\)](#) 

## Assessing and Monitoring of Potential Water Risks

In recent years, due to a tight demand-supply situation in many areas around the world because of water damage—such as flooding—and droughts that are caused by a variety of factors, including population growth and climate change, there is a growing concern that this issue may become a business risk. The Fujitsu Group conducts assessments of and monitors potential water risks for direct operations sites and supply chains.

Specifically, while using tools and databases provided by NGOs and national and local governments, we identify water stress conditions and natural disaster risks in regions where our business sites are located in accordance with RCP 4.5 (intermediate stabilization scenario) from among the emissions scenarios defined by the Intergovernmental Panel on Climate Change (IPCC). We then comprehensively assess the water risk at each site by analyzing how important water use is in the business activities of each operations base, and we confirm the level of compliance in a variety of activities such as the reduction of water intake, measures to reduce pollution in wastewater, business continuity management (BCM) systems, and others. For the supply chain, we also assess our suppliers' flood preparedness and other water risks based on the supply chain BCM surveys, field surveys conducted according to the Responsible Business Alliance's (RBA) code of conduct and the CDP Supply Chain Program. As a result, we have confirmed that there are no significant risks that could substantially affect our business activities.

## RELATED INFORMATION

- [Fujitsu Group Responses to the CDP Water Security Questionnaire 2022 \(PDF link\)](#) 
- [Fujitsu Group Responses to the CDP Water Security Questionnaire 2023 \(PDF link\)](#) 

## Physical Climate Risk Adaptation

Fujitsu have risk assessment systems that include Physical Climate risk in place in Japan, Oceania, Europe and cross regional department Global Delivery.

As physical risk is different based on the location, adaption is tailored to that specific location and risk, for example.

Fujitsu Australia and New Zealand has identified the main physical climate risks to our business in the region, which include short term weather events e.g. extreme heat, flooding, storm events, as well as long-term climatic impacts e.g. drought.

Key measures undertaken in Australia and New Zealand to adapt to climate risks have included:

- Extreme heat events
  - Processes to ensure built-in redundancy of critical equipment and reliable operation of uninterruptable power sources in the event of grid-scale outages.
  - Ensuring equipment is designed to tolerate extreme temperatures.
  - Installing temporary cooling equipment (e.g. misting) to reduce ambient temperatures.
- Bushfire
  - Updating site-based procedures to assess business critical activities and evaluate which activities can be performed remotely in the short term.
  - Turning off external air intakes to offices and data centers to limit smoke ingress.
- Drought
  - Deployment and maintenance of rainwater storage tanks at some sites.
  - Use of recycled water where possible.
  - Installing real-time water loggers at all data centers to monitor consumption trends and help inform water usage efficiency projects.
- Other
  - Climate risk (e.g. extreme heat modelling) incorporated into assessment of siting of new data centers

Within Europe the climate risk is different to Oceania and a number of measures to adapt to climate change risk have been undertaken at a cost of over £1million in one London location showing the seriousness that we consider Climate impact and the commitment that we take protecting our continued service.

- Installing the infrastructure to enable the local water authority pumping equipment to use our data centers Uninterruptable Power Supply (UPS) in the event of a flood
- Dredging the local lagoon to help it act as a water sink

Other examples of adaption based on Physical climate risk in specific locations

- Philippines, the Business Continuity Planning includes natural disaster events such a typhoons and monsoons and other extreme weather events
- Malaysia – Natural Disaster Prevention guidelines provides emergency contact details and advice for employees with their safety prevalent

Another example off adaption is the modernisation and cocreation of the Flood Warning System (working with the UK Environment Agency). A system that can issue flood warnings to citizens within 20 minutes. The flood warning service hosts more than 1.5 million registered properties, 2.9 million telephone numbers, 180,000 email addresses and 1.5 million registrations for mobile text alerts. Since its launch the flood warning systemhas sent more than 7 million messages across email, text, telephone and social media.

\*Co-creating a flood warning system to alert citizens faster

<https://designinaction.global.fujitsu.com/reimagining-the-dynamics-of-success-andresilience/co-creation-in-action/environment-agency> 



Switching Mechanism to enable Fujitsu Datacenter UPS to power local water pumps in the event of a flood (United Kingdom)



Dredging of a lagoon to act as a water basin (United Kingdom)



Datacentre emergency access via lagoon preserving biodiversity (United Kingdom)

## Flooding Damage Impact Assessments Through Hazard Maps and Measures Against Flooding

Fujitsu and its domestic Group companies conduct impact assessments of flooding damage according to a rainfall scale with two types, depending on the magnitude of the impact on our business, as follows. We identify and assign rankings to business sites which will be highly impacted. If a business site falls under a level 4 impact ranking, we implement various measures.

[Assessment 1 Planned scale (Rainfall on a scale that occurs about once every 10-100 years)]

- Assessment subjects: 169 sites for Fujitsu, 280 sites for Group companies All owned properties and major leased properties (such as sales offices and data centers) in the Fujitsu Group
- Assessment method: We assess whether or not the site falls within the "estimated flood inundation area (planned scale)" for nearby rivers as established by the Ministry of Land, Infrastructure, Transport and Tourism or the prefectural government, as well as the extent of the impact within and outside the site and the impact of flooding on buildings. We rank sites that were assessed as being impacted by flooding on a scale of 1 (minor impact) to 4 (major impact).

[Assessment 2 Assumed maximum scale (Rainfall on a scale that occurs about once every 1000 years)]

- Assessment subjects: Domestic data centers and business sites that will be heavily impacted by flooding (such as Fujitsu Solution Square (SS) and the Kawasaki factory)
- Assessment method: We conduct reassessments by upgrading the criteria to "estimated flood inundation area (assumed maximum scale)," and rank the sites on a four-point scale.

[Results for Assessment 1 and Assessment 2 \*Only sites with an impact rank of 4 are shown below.]

	Sites	Assessment 1 (Assessment on a planned scale)	Assessment 2 (Assessment on an assumed maximum scale)	Final impact
Fujitsu	Fujitsu SS	Impact rank 4	Impact rank 4	Impact rank 4
Fujitsu	Kawasaki factory	No impact	Impact rank 4	Impact rank 4
Group companies	No sites which fall under impact rank 4			

[Major Measures]



(a) Retaining walls and embankments



(b) Sliding gates

Fujitsu SS: The site perimeter is protected by retaining walls and watertight panels



(a) Removable watertight panels



(b) Gates that can be raised and lowered

Kawasaki factory: Perimeter entrances and exits are protected by watertight panels

## Preventing Water Pollution

In order to preserve the water quality of surrounding waterways, including rivers, groundwater and sewers, we have set voluntary controls that are even tougher than legal mandates, and conduct measurement and monitoring on a regular basis. We recover and recycle chemicals used in production processes, instead of discharging them into wastewater. We are also working to properly manage and reduce discharge of harmful substances and pollutants by ensuring appropriate chemical use, preventing chemical leaks and penetration, and properly managing the operations of water treatment and purification facilities, among other measures.

## Preventing Air Pollution

We have set voluntary control values that are more stringent than legally mandated emissions standards in order to prevent air pollution and limit acid rain. Regular measurement and monitoring are conducted based on these controls. Efforts are also made to appropriately process dust and soot, sulfur oxide, nitrogen oxide, and other harmful substances, and reduce emissions through measures including combustion management at facilities that produce soot and smoke, use of fuels with low sulfur content, and managing the operations of exhaust gas processing equipment. Furthermore, we have installed activated carbon adsorption treatment equipment and are reducing our atmospheric emissions of organic solvent vapors containing substances like VOCs. Moreover, with the enactment in April 2015 of the Act on Rational Use and Proper Management of Fluorocarbons, we have set in-house stipulations and striven for proper management of specified products (commercial refrigerators and air conditioners containing fluorocarbon refrigerants) while working to identify the volume of our fluorocarbon leakage.

In addition, emission of dioxins has been prevented by suspending use of all in-house incineration facilities as of January 2000.

## Preventing Destruction of the Ozone Layer

Since fluorocarbons not only destroy the ozone layer but also cause global warming, we have totally eliminated the use of ozone-depleting substances in manufacturing processes (parts cleaning and solvents) by introducing precision water cleaning systems and no-clean soldering technology. On the other hand, with regard to fluorocarbons for refrigerants used in air conditioning facilities (freezers, etc.), we are switching to non-fluorocarbons when equipment is renewed, and are working to appropriately manage and dispose of Class I specified products in accordance with the Fluorocarbons Emission Control Act.

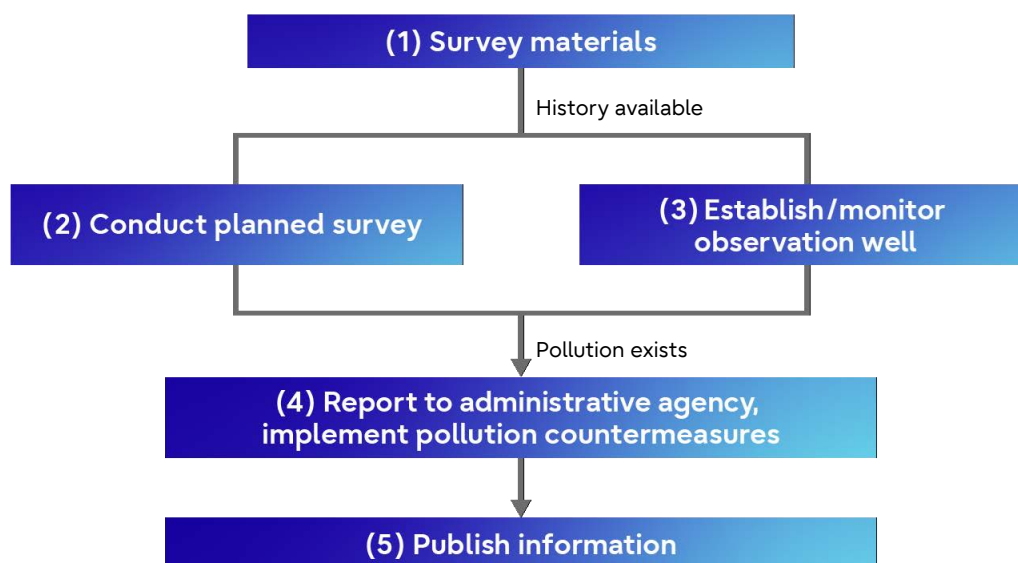
In addition, the annual confirmation of the amount of leakage in the calculation of fluorocarbons indicates that it is less than 1,000 t-CO<sub>2</sub> (not subject to reporting to the minister in charge) for FY2023.

Results for complete elimination of ozone-depleting substances	
Ozone-depleting substances	Time of complete elimination
Washing chlorofluorocarbons (CFC-113,CFC-115)	End of 1992
Carbon tetrachloride	End of 1992
1,1,1-trichloroethane	End of October 1994
Alternative chlorofluorocarbons (HCFCs)	End of March 1999

## Preventing Pollution of Soil and Groundwater

We have established rules for soil and groundwater surveys, measures and disclosures. We review these in accordance with changes in the law and social circumstances and respond based on these rules. We systematically examine soil and groundwater, based on the rules, and if pollution is confirmed, we carry out cleanup and countermeasures at each plant according to the situation, while working together with government authorities to disclose information.

As of FY2023, there are four business sites where soil and groundwater pollution from prior business activities have been confirmed. At those business sites, we have installed observation wells to observe effects outside the site due to groundwater pollution, while also working on purification measures through water-pumping aeration, etc.



Monitor Impact of Groundwater Pollution on Areas Outside of Premises\*

※Monitor impact of groundwater pollution on area outside of premises, which is the greatest risk of soil / groundwater water pollution

## Business Sites Where Soil or Groundwater Contamination Has Been Found

Site Name	Location	Cleanup and Measure Execution Status	Maximum Value Found at Observation Well (mg/L)		Regulated Level (mg/L)
			Substance	Measured Value	
Kawasaki Plant	Kawasaki City, Kanagawa Prefecture	We are continuing to clean up VOCs by pumping and aeration.	1, 2-dichloroethylene	1.7	0.04
			Chloroethylene	9.4	0.002
Oyama Plant	Oyama City, Tochigi Prefecture	We are continuing to clean up VOCs by pumping and aeration.	Trichloroethylene	0.54	0.01
			1, 2-dichloroethylene	3.8	0.04
Nagano Plant	Nagano City, Nagano Prefecture	We are continuing to clean up VOCs by pumping and aeration.	Chloroethylene	1.8	0.002
			Chloroethylene	0.022	0.002
FDK Washizu Plant	Kosai City, Shizuoka Prefecture	We are continuing to clean up VOCs by pumping and aeration.	Tetrachloroethylene	0.071	0.01
			Trichloroethylene	0.15	0.01
			1, 2-dichloroethylene	0.16	0.04
			Chloroethylene	0.0039	0.002

## Chemical Substance Control

To prevent pollution of the natural environment or damage to health due to the use of harmful chemical substances, we are controlling the use of some 1,300 substances using our original Chemical Information System called "FACE" and working to appropriately control and reduce emissions at our business sites.

- [Fujitsu Group Environmental Action Plan \(Stage IX\): Reducing Chemical Substances Emissions](#) >

With regard to chemical substances included in products, we have determined banned substances according to regulations in Japan and worldwide and are working to thoroughly control them, not only inside the Group but also with business partners who deliver materials and products to us.

- [Green Procurement](#) >

## Appropriately Processing Waste

In accordance with the Act on Waste Management and Public Cleansing, we appropriately store and manage waste generated from our business sites, select waste disposal companies that can properly dispose of waste, and outsource disposal. Also, we regularly carry out on-site audits in order to confirm that subcontractors are appropriately handling the waste processing tasks we entrust to them. As part of our efforts to reduce waste, we are promoting the reuse of certain plastic trays in cooperation with a vendor that is working to reuse plastic trays and convert them into recyclable materials.

## Environmental Liabilities

In properly assessing the Fujitsu Group's expected future environmental liabilities, and communicating our integrity and corporate stance of not deferring our liabilities, we have recorded liabilities of 2.50 billion yen in soil pollution cleanup costs, high-level polychlorinated biphenyl (PCB) waste disposal costs, and asbestos processing costs during facilities demolition, which is the amount we calculate, as of the end of FY2023, to be necessary for the Fujitsu Group to conduct these tasks domestically in the next fiscal year and beyond.

## Conserving Biodiversity

In recent years, risks involving the natural environment have been recognized as serious global risks. This necessitates the disclosure of relevant information disclosure by companies, and toward this end, the Task Force on Nature-related Financial Disclosures (TNFD) is considering an information disclosure framework.

If the Fujitsu Group fails to appropriately respond to information disclosure in accordance with the TNFD, its corporate reputation may decline and its ability to procure funds may be affected. Going forward, we will provide disclosures in line with the TNFD framework.

# Green Procurement

We are implementing green procurement alongside our business partners, to provide customers with products and services that have light environmental footprints.

## Procurement Activities Based on Green Procurement Direction

The Fujitsu Group summarized its requirements for business partners regarding the purchase of green parts, materials, and products, in the "Fujitsu Group Green Procurement Direction." This standard is posted on a multilingual basis (in three languages) in order to promote penetration to our business partners. We make an effort to communicate by various means, such as briefing sessions or individual meetings if necessary. Through such activities, the Group implements green procurement activities in conjunction with its partners in Japan and overseas and it promotes procurement from business partners that fulfill the green procurement requirements (see below).

Using the Fujitsu Group Environmental Survey Sheet, we conduct annual monitoring of our business partners' statuses with regard to environmental management systems, CO<sub>2</sub> emission reduction, biodiversity preservation, and water resource preservation activities, and ask them to take appropriate measures. When making requests, we provide them with various kinds of information—such as guidance on activities to reduce CO<sub>2</sub> emissions, explanatory documents related to water risk, and the water risk information tool AQUEDUCT—which have been useful for our business partners.

- Fujitsu Group Green Procurement Direction  
<https://www.fujitsu.com/global/about/procurement/green/> >

## Green procurement requirements for business partners

Requirements	Business partners (materials/parts)(*1)	Business partners (non- materials/parts)
1.Establishment of environmental management systems (EMS)	✓	✓
2.Compliance with regulations for Fujitsu Group specified chemical substances	✓	—
3.Establishment of chemical substance management systems (CMS)	✓	—
4.CO <sub>2</sub> emission control/reduction initiatives	✓	✓
5.Biodiversity preservation initiatives	✓	✓
6.Water resource preservation initiatives	✓	✓

(\*1) Business partners (materials/parts): Business partners that supply components for Fujitsu Group products or OEM/ODM products

## Establishment of Environmental Management System

We request our business partners to establish environmental management systems (EMS)(\*2) as a base for ensuring that they independently and continuously improve their environmental-preservation activities. In general, we prefer them to have third party-certified EMS. If this is difficult, we ask them to build an EMS that incorporates a PDCA cycle suited to their circumstances.

(\*2) EMS: Environmental management systems.

## CO<sub>2</sub> Emission Reduction Initiatives

The Fujitsu Group also asks our business partners to work toward CO<sub>2</sub> emission reduction in hopes of addressing climate change.

Specifically, we ask them to clearly express the intentions of their initiatives and request that they make efforts to achieve the objectives they set. We also ask them to collaborate with external organizations, where possible, and encourage their own suppliers to make similar efforts, in order to expand the initiatives outside their respective businesses. Our annual Supply Chain Business Continuity Survey gives us a clear picture of how business partners are responding to a variety of climate-change risks, including tsunamis, floods, and torrential rains. Moreover, we are asking our main suppliers to establish a CO<sub>2</sub> reduction target based on the international standard of Science Based Targets (SBT) as we strive to further reduce global warming.

## Water Resource Conservation Initiatives

As populations grow rapidly and water sources become progressively more contaminated, the increased need for water around the world, as well as water resource scarcity, has become an international challenge. Water resource conservation initiatives are necessary, even in business activities. The Fujitsu Group asks its business partners to investigate and understand the water risks associated with their own companies, and engage in water resource conservation initiatives, such as preventing water pollution and reducing water use.

# Acquiring and Managing Information on Chemical Substances Contained in Products

Countries around the world are establishing legal regulations as to the chemical substances contained in products, for instance the RoHS directive(\*3) and the REACH regulation(\*4), with an increasing range of chemical substances, products and applications subject to these regulations.

The Fujitsu Group, using chemSHERPA(\*5) as its standard format, investigates and acquires information on the chemical substances contained in our products. We also share this information within the Group, and have a system in place for quick adaptation when laws/regulations are revised or when new regulations are enacted.

(\*3) RoHS directive: Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

(\*4) REACH regulation: Regulation for Registration, Evaluation, Authorization, and Restriction of Chemicals

(\*5) chemSHERPA: Chemical Information Sharing and Exchange under Reporting Partnership in Supply Chain

# Establishing a Chemical Substance Management System (CMS) for Product Substances

In addition to obtaining information on chemical substances contained in our business partners' products, the Fujitsu Group also asks these partners to establish a Chemical Substances Management System (CMS) based on the industry-standard JAMP<sup>(\*6)</sup> guidelines for the management of such chemical substances. Doing so enables the Group to comply even more thoroughly with laws and regulations related to the chemical substances contained in our products.

The Group also carries out CMS audits in order to confirm appropriate establishment and operation of such CMS. More specifically, Fujitsu Group's auditors implement on-site evaluation of the management status of the chemical substances contained in our business partners' products. If there are any inadequacies, auditors make requests for corrections and provide support for their enactment. Even after the establishment of CMS, we maintain awareness of its operation status through periodic audits.

(\*6) JAMP: Joint Article Management Promotion-Consortium.

# Environmental Training and Awareness Activities for Employees

The Fujitsu Group conducts various environmental education and awareness activities based on the belief that “Greater environmental awareness and proactive efforts among all employees are essential for pursuing environmental management.”

## Comprehensive Environmental Training

We offer environmental e-Learning opportunities for all employees through programs in our company-wide training system to promote a basic understanding of environmental management. Training is also conducted on a per-division basis. Specialized trainings such as internal auditor training and training for those in charge of waste practices are also conducted for employees who are in charge of environment-related tasks.

	New hires	Employees	Managers	Top management
General training	Environmental e-learning			
Specialized training Note: Only relevant persons attend sessions	Function-specific training (ad-hoc)			
	Internal auditor training			
	Waste management officer training			
Awareness	Seminars, workshops, etc.			
	Sustainability contribution awards			
	Communication through the Internet and social media			

Fujitsu's Environmental Training Scheme

## Environmental e-Learning

We offer educational opportunities for employees to comprehensively learn about global trends relating to the environment, the environmental management of the Fujitsu Group, and the role played by each employee, based on the theme of “Environmental Management of the Fujitsu Group and Role of Each Individual Employee” This education is positioned as providing fundamental knowledge that all Fujitsu employees should have under the company-wide employee training system.

<Images of Environmental e-Learning material>

