

Contributing to the Global Environment with the Power of Technology

Realizing a Carbon-neutral, Recycling-oriented Society



Addressing environmental problems is an important management issue. We want to avoid degrading the planet and instead leave it richer for future generations. We use cutting-edge technologies to improve power efficiency and promote renewable energy use while implementing climate change countermeasures and working toward a recycling-oriented society.

The 27th session of the Conference of the Parties to the United Nations Framework Convention on Climate Change (COP 27) reaffirmed the Paris Agreement's 1.5°C target (to limit the average global temperature increase to 1.5°C above pre-industrial levels). Companies are being called upon to strengthen and accelerate their climate change countermeasures to help achieve this target. Against this backdrop, SoftBank Corp. is advancing activities under the Carbon-Neutral 2030 Declaration, aiming to reduce greenhouse gas (GHG) emissions from business activities, such as those from electricity use, to essentially zero by 2030. We are also working toward net zero emissions throughout the supply chain, including suppliers and business partners, by 2050 to contribute to societal decarbonization.

To reduce CO₂ emissions, we are working to effectively utilize renewable energy, transition to energy-saving equipment, and improve the power efficiency of our facilities

and equipment while reducing their environmental burden by using cutting-edge technologies.

At the same time, companies face growing expectations to protect and contribute to natural equity and biodiversity through nature-positive initiatives, reflecting the momentum of the Kunming-Montreal Global Biodiversity Framework adopted in December 2022 at the 15th Conference of the Parties to the Convention on Biological Diversity (COP 15); 30by30, which aims to protect at least 30% of the world's lands and waters by 2030; and the adoption of Japanese government's National Biodiversity Strategy and Action Plan 2023–2030. In light of these growing demands, SoftBank Corp. is conscientious of the impacts of its businesses on ecosystems and works to conserve biodiversity through business and social contribution activities.

Furthermore, to protect the global environment and preserve natural resources, we seek to limit the amount of resources used by our corporate activities and businesses and to promote their recycling and reuse.

We also endeavor to achieve a prosperous society through the spread of renewable energy by promoting and expanding renewable energy-based businesses and services.

Social Issues

- Response to natural disasters caused by global warming and climate change
- Transition to an energy-saving, circular economy that recycles and reuses limited resources
- Growing power consumption with increasing data processing and the concentration of power consumption in urban areas

Value Creation

- (1) Contribute to the mitigation of climate change through technology and business
- (2) Promote a recycling-based society (circular economy)
- (3) Realize a prosperous society through the spread of renewable energy

KPI

- (1)
 - Net zero emissions (Scope 1, 2, 3)¹ (FY2050)
 - Carbon neutrality (Scope 1, 2)¹ (FY2030) (Ratio of renewable energy to electricity used by the company:² 100% by FY2030) (Purchasing non-fossil certificates and demonstrating additionality in renewable energy)
 - Ratio of renewable energy to electricity used by the company:¹ 50% or greater (FY2030)³
 - Ratio of renewable energy for base stations: 80% or greater (FY2023)
 - Contribution to the reduction of CO₂ emissions in society as a whole: Spread and expand household energy-saving services through electricity management apps, etc.
1. Scope 1: Direct greenhouse gas emissions by the company itself
Scope 2: Indirect emissions from the use of electricity, heat, and steam supplied by other companies
Scope 3: Other indirect emissions not included in Scope 1 or Scope 2, such as emissions from the company's supply chain activities
2. Total for SoftBank Corp. and Wireless City Planning, Inc.
3. Procurement from new (additional) renewable energy generation (wind, solar, etc.)
- (2)
 - Mobile phones collected for reuse or recycling: 12 million (FY2020-2025)
 - Percentage of decommissioned base stations going to landfill: 1% or less (annually)
 - Promote initiatives related to conserving biodiversity/natural capital
 - Reducing the impact of land development on biodiversity
- (3)
 - Renewable energy power provision: Expand provision of renewable energy power plans

Risks and Opportunities

Risks

- Increasing restoration and prevention costs related to more frequent infrastructure disruption and communication blackouts due to disasters
- Difficulty in securing non-fossil fuel electricity and long-term increase in electricity procurement costs
- Impact on financing due to insufficient environmental efforts
- Insufficient electricity supply to carry out next-generation infrastructure projects

Opportunities

- Expansion of the market for highly energy-efficient solutions that utilize IoT, etc.
- Expansion of businesses related to the sharing economy and renewable energy
- Stabilization of business operations using geographically distributed data centers and super-distributed computing infrastructure (xIPF)
- Securing an affordable and continuous supply of non-fossil fuel electricity

Main Businesses and Initiatives

- Switch electricity used in business activities, including by base stations, to electricity from renewable energy*
 - Utilize AI, IoT and other technologies to improve power use efficiency (develop next-generation batteries, etc.)
 - Utilize IoT to improve power use efficiency and promote environmental awareness
 - Implement initiatives aimed at net zero emissions (Scope 1, 2 and 3) group-wide
 - Promote paperless operations through the spread and use of IoT
 - Promote recycling (mobile phone recycling, etc.)
 - Reduce water resource use and waste in business activities
 - Implement initiatives to conserve biodiversity
 - Promote the use of clean energy, mainly through SoftBank Denki
- * Including the use of non-fossil certificates designated as renewable energy

Contributing to the Global Environment with the Power of Technology

Key Person Interview



Masato Ikeda

CSR Division Head, Senior Director of the ESG Promotion Office

Protecting the Global Environment

The 2022 United Nations Conference of the Parties of the UNFCCC (COP27) reaffirmed the importance of initiatives based on the Paris Agreement’s 1.5°C target. As this shows, international initiatives to address climate change are growing even more important. The Japanese government has announced its target to realize carbon neutrality by reducing overall greenhouse gas (GHG) emissions to net zero by 2050. To help meet this goal, companies must urgently work toward decarbonization. SoftBank Corp. has made contributing to the global environment one of its material issues and is working to address increasingly complex and serious global environmental issues, such as climate change and biodiversity loss.

Working with Group Companies toward Net Zero

Under its Carbon-Neutral 2030 Declaration, SoftBank Corp. aims to reduce GHG emissions from its own business processes and energy consumption (Scope 1 and 2) to zero by 2030. On top of this, we have now announced our “Net Zero” goal of reducing greenhouse gas emissions associated with the supply chain, including those of business partners (Scope 1, 2 and 3), to net zero by 2050. In June 2023, we decided to expand these initiatives to SoftBank Corp. group companies. We are switching to electricity from renewable energy to power base stations and forming renewable energy procurement agreements with renewable energy producers, aiming to procure at least half of the electricity used by the company* from renewable energy sources by 2030. At the same time, we are working to reduce GHG emissions through our business activities, including saving energy by using AI and other new technologies. Meanwhile, our group companies are advancing a wide range of initiatives to reduce GHG emissions, such as selecting environmentally friendly products and services and promoting the uptake and expansion of power-saving services offered through apps.

* Total for SoftBank Corp. and Wireless City Planning, Inc.

Conserving Biodiversity and Realizing a Recycling-based Society

SoftBank Corp. recognizes the importance of conserving biodiversity and realizing a recycling-based society, both for their own sake and in terms of sustainable corporate operations. To conserve biodiversity, we support the international community’s target of being nature-positive.

Furthermore, we endorse the principles of the Taskforce on Nature-related Financial Disclosures (TNFD) and are proactively advancing disclosure based on the TNFD disclosure framework. We are also implementing conservation efforts in partnership with local communities. As one such initiative, working with Onna Village in Okinawa Prefecture, we have established the Future and Coral Project, under which we use donations collected online to plant coral seedlings and conduct beach cleanup activities. To realize a recycling-based society, we collect used mobile phones for recycling at our shops across the country. In the three years from FY2020 to FY2022, we collected approximately 7.3 million devices. In addition, we are implementing environmental conservation initiatives in cooperation with municipalities, such as environmental education for elementary and junior high school students and the Zero Litter Project, which uses LINE and IoT-enabled trash cans.

In Closing

I strongly feel that achieving environmental sustainability will require cooperation and dialogue between corporations, government and research institutions. By joining forces with a wide range of stakeholders to tackle social issues and reduce environmental impact through the use of technology, I believe that we can pass on a sustainable planet to future generations. This is a crucial responsibility for us as a company.

Contributing to the Global Environment with the Power of Technology

Environmental Management

Toward a Brighter Future for People and for Nature

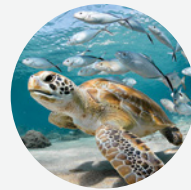
SoftBank Corp. recognizes global environmental problems as an important management issue. To ensure that all executives and employees work together to reduce environmental burden, we have established the Environmental Action Guidelines and set up an environmental management system and corresponding administrative. By proactively promoting the maintenance and preservation of the global environment through our business activities, we seek to contribute to the ongoing development of a sustainable society.



Contribution to climate change countermeasures



Promotion of a recycling-based society



Biodiversity conservation

Environmental Management System

SoftBank Corp. has established Environmental Action Guidelines, an environmental management system, and an administrative structure to promote environmentally friendly corporate activities and support proactive environmental conservation activities. Toward more environmentally friendly corporate activities, we are addressing matters deemed to have a particularly important environmental impact, including global warming prevention, recycling used mobile phones, resource conservation, and limiting the use and emissions of substances specified by the Restriction of Hazardous Substances (RoHS) Directive.*

As environmental awareness increases, companies face increasingly diverse requirements, including demand for environmentally friendly products and services, regulations concerning environmental conservation, and the need for smarter, energy- and resource-saving operations. To quickly respond to these requirements and adapt, we will faithfully perform the PDCA (plan, do, check, act) cycle in our environmental management system, striving for improvement.

SoftBank Corp. has acquired certification under ISO 14001, an international environmental management system standard, for 19 sites designated under the Act on the Rational Use of Energy as type 1 or type 2 designated energy management factories, etc. These include SoftBank Corp.'s headquarters, network centers and data centers.

* RoHS Directive: A European Union directive prohibiting toxic substances in electrical and electronic equipment

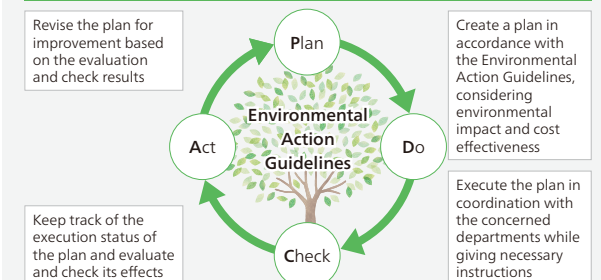
Environmental Action Guidelines

SoftBank Corp. has established these guidelines under the oversight of the Board of Directors to ensure that all executives and employees work together to reduce environmental burden and contribute to the ongoing development of a sustainable society by proactively working to maintain and preserve the global environment through business activities.

The business activities covered by these guidelines encompass all facilities, equipment, distribution and logistics, as well as business expansion through M&A and the establishment of joint ventures, and entry into new businesses.

- Comply with environmental laws, ordinances and other regulations and requirements.
- Establish an Environment Committee under the oversight of the Executive Officer in Charge of ESG Promotion to establish an environmental management system, set environmental targets for reduction of greenhouse gas emissions, energy saving, resource saving, waste reduction, and water use reduction, and to continue to improve our environmental performance to solve issues in such areas as climate change countermeasures and resource depletion.
- Promote environmentally friendly green procurement in our purchase of office equipment and supplies.
- Strive to provide telecommunications services, etc., which help reduce the environmental load and contribute to the reduction of greenhouse gas emissions across society as a whole.
- Take into account the business impact on ecosystems and promote initiatives to conserve biodiversity.
- Strive to provide environmental education to employees while also announcing the details of these guidelines and our environmental information both internally and externally to reduce the environmental load together with stakeholders including group companies, business partners, and suppliers.

Iterative Cycle from Plan to Action

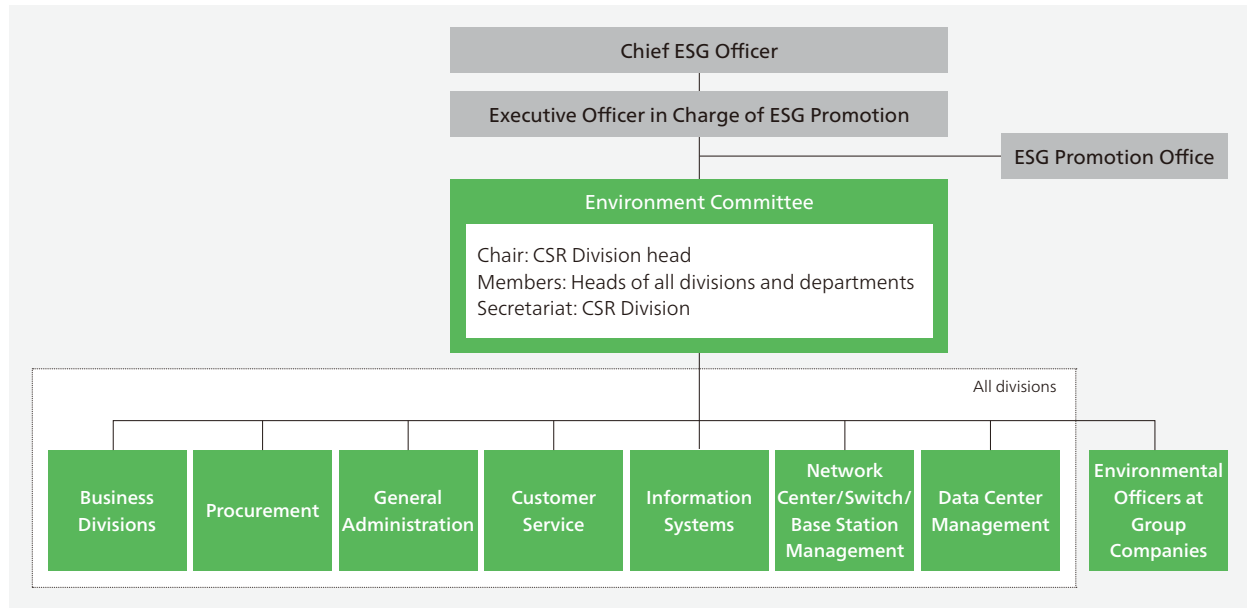


Contributing to the Global Environment with the Power of Technology

Environmental Management

Environmental Management Framework

To maintain an environmental management system in compliance with the ISO 14001 international standard, we have established the Environment Committee overseen by the Executive Officer in Charge of ESG Promotion as a cross-divisional organization for considering all environment-related matters. Under this framework, we implement company-wide environmental conservation activities.



Environmental Targets

Category	Target	Main Measures
Climate change countermeasures	Ratio of renewable energy for base stations: 80% or greater (FY2023)	<ul style="list-style-type: none"> Procurement of environmental value certificates
	Ratio of renewable energy to electricity used by the company: 50% or greater (FY2030)	<ul style="list-style-type: none"> New procurement from renewable energy generation
	<ul style="list-style-type: none"> Carbon neutrality (FY2030) Net zero emissions (FY2050) 	<ul style="list-style-type: none"> Procurement of environmental value certificates/Implementation of various energy conservation measures Offices, etc. Measures in cooperation with building owners Network centers/data centers Reduce electricity consumption intensity by 1% annually
Promote a recycling-based society	Mobile phones collected for reuse or recycling: 12 million (FY2020-2025)	<ul style="list-style-type: none"> Establishment of systems Dissemination of information
	Percentage of decommissioned base stations going to landfill: 1% or less	<ul style="list-style-type: none"> Ensure recycling
Biodiversity conservation	<ul style="list-style-type: none"> Promote initiatives related to conserving biodiversity/natural capital Reducing the impact of land development on biodiversity 	<ul style="list-style-type: none"> Promote initiatives to reduce the impact of business on biodiversity Coral conservation activities in Onna Village
Compliance with environmental laws and regulations	Proper handling of industrial waste	<ul style="list-style-type: none"> Offices Educate employees Create manual and contract templates Set up systems, including consultation contact points Network centers/data centers Digitize disposal procedures Ensure thorough compliance with laws and regulations
	Proper handling of waste CFCs	<ul style="list-style-type: none"> Network centers/data centers Digitize disposal procedures Ensure thorough compliance with laws and regulations
	Proper management of plastics	<ul style="list-style-type: none"> Curb plastic usage Set recycling targets Publish results of efforts to meet targets Monitor the amount of plastic waste generated

Contributing to the Global Environment with the Power of Technology

Environmental Management

Compliance with Environmental Laws and Regulations and Internal Audits

Through our environmental management system, we strive to comply with environmental laws and regulations. The company had no violations of environmental laws or regulations, including those related to air, water or soil pollution, in FY2022.

We also regularly conduct internal audits to ensure that our environmental management system fulfills the ISO 14001 requirements and is being implemented in a way that is effective based on our environmental targets. Based on the results of these audits, we identify issues, take corrective measures, review the environmental management system and continuously work toward improvement. As a result of external audits, we maintained ISO 14001 certification in FY2022.

External Audits

At SoftBank Corp.'s headquarters in Tokyo Portcity Takeshiba Office Tower, we are implementing various power-saving measures in line with aims of the Act on the Rational Use of Energy and the Tokyo Metropolitan Environmental Security Ordinance. For example, we have installed such energy-saving technologies as LED lighting automatically controlled by motion sensors and automatic window blinds.

Furthermore, our headquarters, large-scale network centers and data centers have acquired ISO 14001 certification (an international standard for environmental management systems) and are actively working to reduce electricity consumption. We continue to implement energy-saving measures, such as optimizing the temperature settings for air conditioning equipment in base stations and network centers, actively adopting energy-saving equipment, and

systematically replacing aging or obsolete equipment to promote efficiency in energy use. At data centers, in particular, the use of heat flow analysis and localized air conditioning has helped to reduce electricity consumption.

Environmental Management System (ISO 14001)

We have adopted an environmental management system that complies with the international ISO 14001 standard to ensure adherence to laws, regulations and other requirements related to environmental conservation and promote environmentally friendly corporate activities. As a result of a third-party review, we maintained ISO 14001 certification in FY2022.

- Certifying and examining authority: BSI Group Japan K.K.
- Accreditation organization: ANSI-ASQ National Accreditation Board (ANAB)
- Registered certification number: EMS81966
- Date of first certification: September 9, 2004



Main registration scope

- Contact Center Operations Department, Process Management Division
- Tokyo Data Center No. 4
- Sapporo Data Center
- Kitakyushu e-Port Data Center
- Kitakyushu e-Port Data Center No. 2
- Oita Data Center
- Kanto Network Center, Area Network Division
- Kansai Network Engineering Department, Area Network Division
- Hokkaido Network Engineering Department, Area Network Division
- Tohoku Network Engineering Department, Area Network Division
- Tokai Network Engineering Department, Area Network Division
- Hokuriku Network Engineering Department, Area Network Division
- Chugoku Network Engineering Department, Area Network Division
- Shikoku Network Engineering Department, Area Network Division
- Kyushu Network Engineering Department, Area Network Division
- General Affairs Division
- CSR Division

Third-party Verification of Environmental Data

The FY2022 amounts of greenhouse gas emissions (Scope 1, 2 and 3), energy consumption and industrial waste and water usage have undergone third-party verification by the Japan Quality Assurance Organization (verified ISO 14064-3 and ISAE 3000 compliant with a limited level of assurance).

Contributing to the Global Environment with the Power of Technology

Environmental Management

Employee Training and Education

Environmental Training for Employees

We regularly conduct e-learning-based environmental education to provide employees with basic knowledge concerning environmental conservation and raise their awareness. The curriculum enables all employees to learn about broad-ranging environmental conservation topics.

Additionally, we provide practical training for employees involved in industrial waste processing that equips them with the knowledge they need to comply with laws and regulations and perform appropriate disposal. We deliver this training through e-learning-based instruction concerning proper industrial waste disposal and electronic manifest systems.

This environmental e-learning content can be used on iPads and iPhones, facilitating the effective use of employee time. In FY2022, we provided e-learning focused on climate change countermeasures, and 75.4% of employees participated.



Green Procurement

Promoting Products That Help Reduce CO₂ Emissions

In order to contribute to the sustainable development of society, SoftBank Corp. has established the Green Procurement Guidelines, which explain its fundamental approach to green procurement to our suppliers. These guidelines comply with the Ecology Guideline for the ICT Industry formulated by the ICT Ecology Guideline Council* in response to suggestions from a scientific meeting held by the Ministry of Internal Affairs and Communications on ecological response in the field of information and communication. By establishing these guidelines, we are promoting product procurement that helps reduce CO₂ emissions. Moving forward, we will ensure that we carry out business activities that prioritize the environment by welcoming voluntary and proactive proposals from our suppliers and joining forces with them to conduct environmental conservation activities.

* ICT Ecology Guideline Council: A joint council established on June 26, 2009 by the Telecommunications Carriers Association, Telecom Services Association, Japan Internet Providers Association, Communications and Information Network Association of Japan, and ASP-SAAS-IoT Cloud Consortium to promote industry-wide global warming prevention measures

Environmental Communication

Cooperation with Customers

To support activities aimed at solving a variety of environmental and social issues, SoftBank Corp. is building communication channels between users and NPOs via Connected through Fundraising, a platform that allows users to make donations along with their SoftBank smartphone payments, and Yahoo! JAPAN Internet Fund Raising, which is one of Japan's largest donation portal sites and operated by Yahoo Japan Corporation. Through the construction of these channels, we aim to create opportunities for new activities.

Carbon Offset Campaign Targeting Japan's National Parks and World Natural Heritage Sites Message from Executive Committee Chairman Ken Oikawa

To preserve our beautiful, abundant and precious natural environment for the future, we on the executive committee of the Carbon Offset Campaign Targeting Japan's National Parks and World Natural Heritage Sites are teaming up with the Boy Scouts to conduct environmental activities that involve learning, experiencing and communicating.

When conducting these activities, we utilize Yahoo! JAPAN Internet Fund Raising to collect donations from a large number of supporters. We have received donations from more than 47,000 individuals through to date. Their support has been providing power to our activities.

We hope that the children who experience nature through these activities will someday teach their own children about the importance of protecting the natural environment. And, over time, through this rich chain of caring for nature, we hope many adults will get involved in conservation efforts.

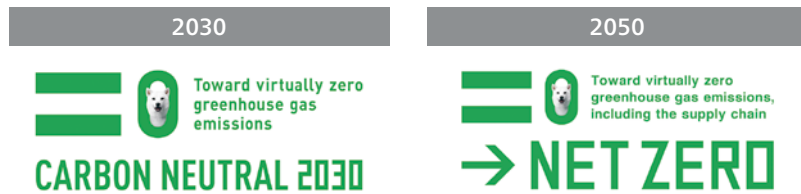


Contributing to the Global Environment with the Power of Technology

Value Creation 1 Contribute to the Mitigation of Climate Change through Technology and Business

Contributing to measures to combat climate change is our responsibility as a company. SoftBank Corp. is using renewable energy and leveraging AI, IoT and other cutting-edge technologies to increase power efficiency in an effort to help realize a sustainable society. Furthermore, SoftBank Corp. endorses the Paris Agreement, the new international framework for reducing greenhouse gas (GHG) emissions that has superseded the Kyoto Protocol from 2020 onward. To help meet the agreement’s emissions reduction targets, we are working to reduce GHG emissions through business activities and advancing initiatives aimed achieving net zero emissions throughout the supply chain, including business partners, in order to help realize decarbonization across society.

Net Zero Efforts with Group Companies



SoftBank Corp. made its Carbon-Neutral 2030 Declaration in May 2021, aiming to reduce Scope 1 and 2 GHG emissions—emissions from business processes and energy consumption—to zero by 2030 through the use of AI, IoT and other cutting-edge technologies for energy conservation. On top of this, in August 2022, we announced our “Net Zero” goal of achieving net zero emissions for the entire supply chain, including Scope 3, by 2050. Furthermore, to accelerate decarbonization across society, in June 2023 we expanded our Net Zero initiatives to include group companies.¹

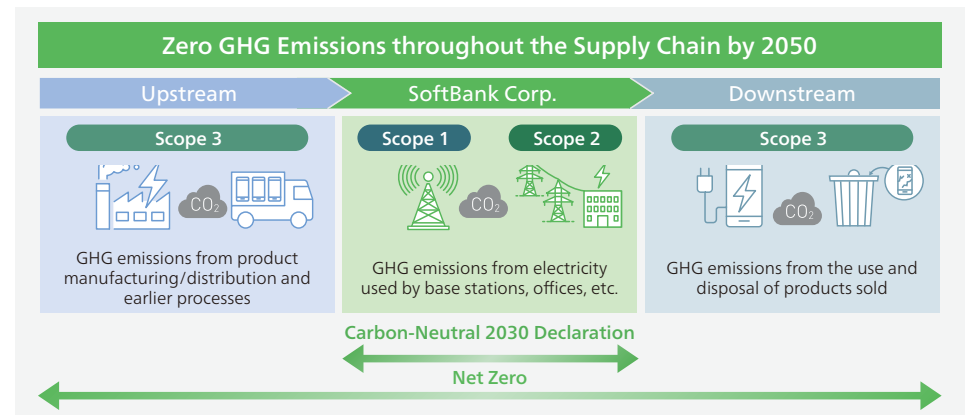
Coinciding with this move, SoftBank Corp. submitted a commitment letter to the Science Based Targets initiative (SBTi²), an international climate change initiative, to have the Net Zero targets for greenhouse gas emissions verified as science-based.³

1. Consolidated group companies

2. SBTi (Science Based Targets initiative)

3. SoftBank Corp.’s short-term targets received SBT verification in June 2021.

Participation in Ministry of the Environment Model Project
 SoftBank Corp. participated in the Ministry of the Environment’s FY2022 Model Project for Promoting Decarbonization of the Entire Supply Chain of Large Corporations. As part of the project, we studied emissions reduction measures aimed at achieving net zero emissions by 2050 and formulated a roadmap to 2050. Based on this roadmap, we are working with related parties within and outside the group to promote effective initiatives aimed at net zero emissions.



SoftBank Corp.’s Primary Initiatives Aimed at Net Zero Emissions

<p>Scope 1 Direct GHG emissions from the company itself (fuel burning and industrial processes)</p>	<p>Renewable energy</p> <ul style="list-style-type: none"> Convert all electricity usage to renewable energy sources by fiscal 2030 Sign long-term renewable energy procurement contracts to switch to renewable energy with additionality for at least 50% of the electricity used by the company* by FY2023 <p>Energy efficiency</p> <ul style="list-style-type: none"> Utilize AI and IoT to promote electricity usage efficiency and energy savings Reduce environmental impacts by developing next-generation batteries Improve electricity usage efficiency with super-distributed computing infrastructure (xIPF) <p>Data center initiatives</p> <ul style="list-style-type: none"> Deploy distributed AI data centers that utilize green energy
<p>Scope 2 Indirect emissions from the purchase of electricity, heat or steam</p>	
<p>Scope 3 Emissions Indirect emissions other than those in Scope 1 and 2 (emissions from other companies associated with the activities of the company)</p>	<ul style="list-style-type: none"> Develop emission reduction guidelines for business partners Participate in the Ministry of the Environment’s model project to promote decarbonization across the entire supply chain in order to establish emission reduction plans Reduce GHG emissions related to commuting by promoting telework

* Total for SoftBank Corp. and Wireless City Planning, Inc.

Contributing to the Global Environment with the Power of Technology

Value Creation 1 Contribute to the Mitigation of Climate Change through Technology and Business

Net Zero Efforts with Group Companies

Main Initiatives to Achieve Net Zero at Group Companies

<p>SB C&S Corp.</p> 	<ul style="list-style-type: none"> Promote the selection and sale of environmentally conscious products and services Promote the sale of cloud-based platforms Conduct surveys on and request cooperation from suppliers regarding efforts to reduce environmental impacts
<p>SB Power Corp.</p> 	<ul style="list-style-type: none"> Jointly promote the utilization of renewable energy with SoftBank Corp. Spread and expand energy-saving services for households through the Eco-Denki App and other means
<p>SB Technology Corp.</p> 	<ul style="list-style-type: none"> Reduce greenhouse gas emissions both for customers and in-house by promoting cloud-based services Reduce transportation costs and GHG emissions by providing paperless
<p>Z Holdings Corporation</p> 	<ul style="list-style-type: none"> Construct, renovate, acquire and operate data centers with power usage effectiveness (PUE)* of under 1.5 Procure renewable energy necessary for operating data centers
<p>Yahoo Japan Corporation</p> 	<ul style="list-style-type: none"> Convert the power supply of data centers in the U.S. state of Washington to 100% renewable energy sources Reduce Yahoo! JAPAN Shopping re-deliveries by strengthening deliveries at specified times and doorstep deliveries and through delivery status coordination
<p>LINE Corporation</p> 	<ul style="list-style-type: none"> Promote the conversion of electricity usage at offices and data centers to electricity from renewable energy Reduce energy consumption by reducing server storage burden through the utilization of data processing technologies developed in-house
<p>ASKUL Corporation</p> 	<ul style="list-style-type: none"> Use electric vehicles for last-mile delivery Convert 65% of electricity used by the entire group, including at headquarters, logistics centers, and subsidiaries, to renewable energy sources
<p>ZOZO, Inc.</p> 	<ul style="list-style-type: none"> Convert electricity used at headquarters and logistics bases to 100% renewable energy sources Improve loading efficiency when shipping from logistics bases to reduce CO₂ emissions from product transportation Implement Yamato Transport's "EAZY" to reduce CO₂ from re-deliveries

Improving the Visibility of CO₂ Emissions in Route Searching (Yahoo! JAPAN)

Yahoo! JAPAN MAP (a map app), Yahoo! Car Navi (a car navigation app), and Yahoo! Transfer Guide (a train route/transfer lookup app), provided by Yahoo Japan Corporation, launched a new function in February 2023 that allows users to see the CO₂ emissions from the options that come up when searching for a route, enabling them to choose an environmentally friendly route.

According to a survey by the Ministry of Land, Infrastructure, Transport and Tourism, the transportation sector, including automobiles and railways, accounts for close to 20% of Japan's total CO₂ emissions. This finding suggests that, in addition to efforts by companies, civic organizations and the government, it is important for individuals to be aware of reducing their CO₂ footprint in such aspects of daily living as individual transportation. The Ministry's *White Paper on Land, Infrastructure, Transport and Tourism in Japan, 2022*, meanwhile, states that effectively and continuously incorporating the perspective of decarbonization into daily life will be necessary to mobilize great numbers of people to take long-term, ongoing steps toward decarbonization.

Against this backdrop, Yahoo! JAPAN launched the new function to cultivate an awareness of CO₂ emissions among the many users of these apps by displaying CO₂ emissions within the services they already use when taking transportation in their daily lives. Under its mission, "Making Japan more convenient, with the power of information technology," Yahoo! JAPAN is advancing measures to address climate change while fostering an awareness of CO₂ emissions reduction among users through these three transportation-related services in order to help realize a sustainable society.

* Power usage effectiveness (PUE): An indicator of the efficiency of data centers and similar facilities

Contributing to the Global Environment with the Power of Technology

Value Creation 1 Contribute to the Mitigation of Climate Change through Technology and Business

Working toward Decarbonization

Shift to Renewable Energy for Power Used at Base Stations

SoftBank Corp.'s main business is the mobile communications business. The annual greenhouse gas emissions from our business activities total approximately 680,000 tons CO₂ equivalent (FY2019 results), more than half of which is attributable to power use at base stations across Japan. Our total annual greenhouse (GHG) gas emissions are equivalent to those of approximately 250,000 ordinary households. In order to reduce GHG emissions, we have decided to switch to electricity from renewable energy supplied by SB Power.* In FY2022, 72.1% of base station power came from renewable energy, and we aim to increase this to 80% or more in FY2023.



* Electricity supplied from effectively 100% renewable energy, with zero net CO₂ emissions, achieved by combining non-fossil certificates designated as renewable energy.

Increased Power Efficiency Utilizing AI and IoT

Utilizing cutting-edge technologies, such as AI, IoT and big data to analyze vast amounts of environmental data with AI machine learning is thought to be capable of predicting impacts on the global environment. Since various measures can be implemented based on these predictions, the utilization of cutting-edge technology to address environmental problems is attracting attention around the world.

By fully utilizing its cutting-edge technologies, such as AI and IT, and synergies with group companies, SoftBank Corp. is advancing measures to improve the power efficiency of its facilities and equipment and to reduce its environmental burden.

Initiatives at Base Stations and Network Centers

At network centers in Toda City, Saitama Prefecture, and elsewhere, we have installed solar panels with a power generation capacity of approximately 10,000 kWh per year.

Additionally, we have set up wireless base stations equipped with solar panels ("eco base stations"). Under good weather conditions, these solar panels are capable of producing all the energy needed to operate the stations.



Data Center Initiatives

SoftBank Corp. group companies Yahoo Japan Corporation and IDC Frontier Inc. are striving to improve the energy efficiency of their data centers.

The Kitakyushu Data Center is the first large-scale commercial data center in Japan to implement ambient air cooling. This environmentally friendly data center saves energy by optimizing its air conditioning efficiency.

Taking advantage of the surrounding cool climate, the Shirakawa Data Center has installed a building-integrated ambient cooling system that fuses architectural and air conditioning functions, enabling it to cool its buildings by directly pumping in outside air. Cool air from outside covers more than 90% of the data center's annual air conditioning load.

Office Initiatives

At the Tokyo Portcity Takeshiba Office Tower where SoftBank Corp.'s headquarters are located, we are saving energy through efficient building management. For example, we have installed LED lighting automatically controlled by motion sensors and automatic window blinds that increase air conditioning efficiency.

Contributing to the Global Environment with the Power of Technology

Value Creation 1 Contribute to the Mitigation of Climate Change through Technology and Business

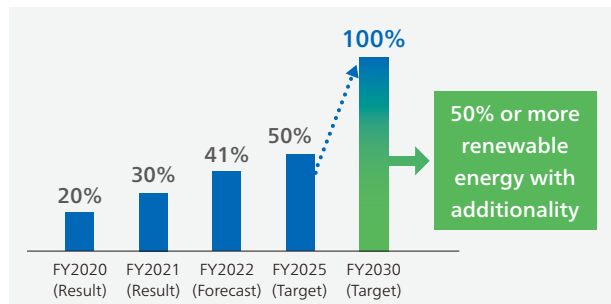
Working toward Decarbonization

Adoption of Renewable Energy with Additionality

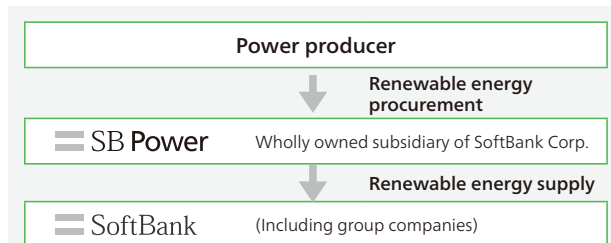
By procuring new renewable energy, we aim to procure all of the electricity we need for our telecommunications business from renewable energy generation in the future. By entering into long-term renewable energy procurement contracts, we will reduce greenhouse gas emissions by switching to renewable energy with additionality¹ for at least 50% of the electricity used by the company² by FY2023, contributing to the achievement of carbon neutrality at the levels of the company and society.

1. Procurement from new (additional) renewable energy generation (wind, solar, etc.)
 2. Total for SoftBank Corp. and Wireless City Planning, Inc.

Renewable Energy

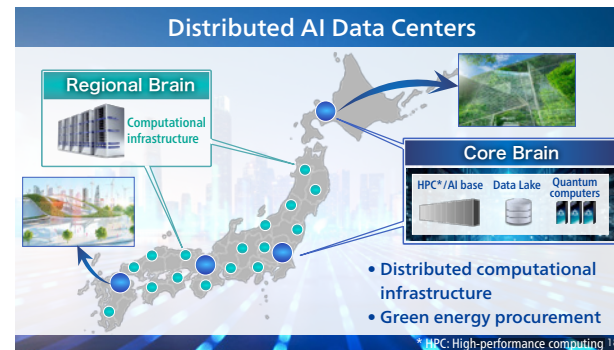


Procurement Scheme



Building Distributed AI Data Centers

SoftBank Corp. believes that the development of a next-generation society incorporating AI that autonomously works with humans will require the creation of next-generation infrastructure capable of generating and processing vast amounts of data. Currently, many data centers are located in Tokyo and Osaka, resulting in the concentration of data processing and power consumption in urban areas. As such, if data processing and power consumption continue to increase without other changes, the risk of power outages in urban areas will increase. To address this issue, we will build around four data centers with large-scale computing capacity ("core brains") distributed across Japan, as well as mid-sized data centers ("regional brains") located in regional areas where they will be able to stably procure power from green energy development. In addition, we will use multi-access edge computing (MEC) at points close to where smartphones and other devices are used to build distributed AI data centers. The implementation of distributed AI data centers will enable the distributed processing of data, which is expected to increase exponentially, and bolster overall computational capacity while optimizing power consumption.



Reducing Environmental Load by Developing Next-generation Batteries

SoftBank Corp. is working to reduce environmental burden through R&D aimed at the development and practical application of next-generation batteries. In June 2021, we established the SoftBank Next-generation Battery Lab to test and evaluate next-generation batteries from around the world in order to help quickly commercialize next-generation batteries. Furthermore, in April 2022, we established the Research Institute of Advanced Technology to conduct R&D aimed at the practical implementation of new technologies. The Institute is engaged in R&D related to high-specific energy (energy capacity per unit of mass) next-generation batteries.

In March 2023, SoftBank Corp. announced it developed a battery pack for stratosphere-based high-altitude platform stations (HAPS) using a high-specific energy lithium-metal battery cell developed jointly with Enpower Japan Corp. Working in cooperation with ENAX Inc., SoftBank Corp. succeeded in reducing the weight of the battery pack components, bringing the companies much closer to building a battery pack with a specific energy of 300 Wh/kg. A charge-discharge cycle test in the stratosphere using the battery pack conducted from January 30 to February 2, 2023 demonstrated successful operation in stratospheric conditions, a first for such battery packs.



Battery pack for HAPS

Contributing to the Global Environment with the Power of Technology

Value Creation 1 Contribute to the Mitigation of Climate Change through Technology and Business

Working toward Decarbonization

Initiatives through the ETI-CGC Industry-academia Collaborative Platform

Together with 11 other major Japanese companies, SoftBank Corp. is participating in the Energy Transition Initiative-Center for Global Commons (ETI-CGC), an initiative led by the University of Tokyo to study Japan’s energy transition. We are participating as leader in the communications industry. ETI-CGC is engaged in discussions of pathways for Japan to achieve decarbonization (net zero GHG emissions) by the middle of this century. By providing information about these discussions to the world, ETI-CGC aims to promote understanding of the decarbonization initiatives in countries around the world that, like Japan, face a variety of complicating circumstances in this area. Through industry-academia collaboration based on a common aspiration to realize carbon neutrality, we are seeking the optimal pathway for Japan.

Currently, we are discussing items to be considered in the energy sector, including scenario formulation that classifies energy sources required to achieve carbon neutrality; changes in the energy mix; and changes in energy demand in each sector. ETI-CGC presented an interim report on analysis of Japan’s net zero in 2050 scenario at COP27 in November 2022, and on June 2023 presented a further interim report on said scenario titled “Net Zero Japan 2050 - Summary for Business Leaders.”

SoftBank Corp. will leverage its insights gained through the operation of telecommunications infrastructure as it participates in various ETI-CGC activities, including the drafting of policy recommendations. By doing so, we aim to contribute to the realization of the government of Japan’s goal of reducing GHG emissions to net zero by 2050.

Invigorating Carbon Credit Markets: Participation in the Natural Capital Credit Consortium

The Taskforce on Scaling Voluntary Carbon Markets (TSVCM), established to expand carbon credit markets in the private sector, has made recommendations on the importance of invigorating future credit market, including pointing out the need to expand current credit markets by a factor of 15 or more to achieve net-zero emissions at the societal level. Japan’s carbon credit markets have traded mainly government-led credits, including the conventional J-Credit scheme and joint crediting mechanism (JCM), as well as the GX league launched in 2023, while private sector-led voluntary credits like those in Europe and the United States remain underdeveloped. In order to invigorate the carbon credit market in Japan going forward, it will be necessary to promote more active use of both government-led credits and voluntary credits. In addition to credits based on greenhouse gas (GHG) emissions reductions through the adoption of renewable energy or energy-saving efforts, credits can be generated based on other GHG emission reduction effects, such as those of reforestation, tree thinning and other forestry initiatives. However, challenges remain in increasing the accuracy and reliability of credit creation in such areas.

SoftBank Corp. has joined the Natural Capital Credit Consortium (NCCC), an alliance working to invigorate Japan’s carbon credit markets and promote the creation of new carbon credits. The NCCC is chaired by Shunsuke Managi, director of the United Nations Inclusive Wealth Report and distinguished professor and director of the Urban Institute at Kyushu University. The NCCC currently has

44 corporate members. The consortium aims to reinvigorate regional areas and contribute to decarbonization through the creation of carbon credits using regional forests and agricultural land. To participate and contribute using its strengths in technology, SoftBank Corp. worked with NCCC to provide its e-kakashi agricultural AI brain for use in the verification testing of estimating the CO₂ absorption of trees and other plants in multiple municipalities. e-kakashi uses environmental data, such as soil temperature acquired from e-kakashi sensors, with a proprietary algorithm to estimate the amount of CO₂ absorbed by grassy areas and forests.



Contributing to the Global Environment with the Power of Technology

Value Creation 1 Contribute to the Mitigation of Climate Change through Technology and Business

Disclosure Based on the TCFD Recommendations

Amid mounting climate change risks due to global warming, there is a growing trend of assessing the financial impact of climate change on corporate businesses. The Task Force on Climate-related Financial Disclosures (TCFD) is an international initiative established by the Financial Stability Board (FSB) in 2015 to encourage companies to disclose information on the financial implications of the risks and opportunities that climate change presents to their businesses.

We believe that assessing climate-related risks and opportunities in our business activities and proactively disclosing and enhancing information in line with the framework of governance, strategy, risk management, and metrics and targets recommended by the TCFD for companies is crucial for sustainable corporate growth and is an important part of our responsibility to help realize decarbonization across society.

Support for the TCFD Recommendations

In April 2020, SoftBank Corp. announced its support for the TCFD Recommendations. Based on the TCFD Recommendations, we are proactively working to implement and enhance disclosure.



Governance

We regard contribution to the realization of a sustainable society as an important management issue, and have identified material issues to be addressed to this end, one of which is "Contribute to the mitigation of climate change through technology and business." We have established the ESG Promotion Committee as an advisory body to the Board of Directors to promote measures related to climate change. SoftBank Corp.'s President and Representative Director

assumes the position of Chief ESG Promotion Officer and, under the supervision of the Board of Directors, has final responsibility for overall sustainability activities, including strategies related to climate change-related risks and opportunities. In addition, to advance internal climate change-related initiatives, we have established the Environment Committee under the direction of the Chief ESG Promotion Officer and the Executive Officer in Charge of ESG Promotion. The Environment Committee is chaired by the General Manager of the CSR Division, consists of environmental managers from our business units and group companies, and promotes specific measures to achieve Carbon-Neutral 2030.

Strategy

SoftBank Corp. operates a telecommunications business that includes base stations and uses a large volume of electricity. Accordingly, we recognize that our businesses could be subject to significant risks associated with climate change. To consider strategies for adapting to possible future events caused by climate change, SoftBank Corp. conducts scenario analyses of two scenarios: a 1.5°C scenario in which decarbonization proceeds rapidly, and a 4°C scenario in which climate change countermeasures stall and global warming advances further. We have identified risks that are expected to occur by 2050 and which will have a particularly large financial impact on businesses, including upstream and downstream areas of the value chain.

Climate Change-related Risks and Opportunities

Under a 1.5°C global warming scenario, the scenario analysis identified that while reputational and technological risks are limited, there are potential regulatory risks such as carbon taxes associated with increased electricity use. In the 4°C scenario, the risks are limited from sea level rise and temperature rise, but we identified the risk of more frequent

base station outages due to power outages caused by heavy rainfall. In terms of risk countermeasure and opportunities, we have decided upon Carbon-Neutral 2030, in which all electricity and other energy used in our business activities will be renewable energy by FY2030, established a plan to promote the use of renewable energy for base station power, and set a KPI regarding the provision of electricity from renewable energy sources for one of our material issues. As an interim goal of the Carbon-Neutral 2030 Declaration, we plan to complete the conversion of at least 70% of base station electricity to renewable energy by FY2022, and to move toward achieving carbon neutrality in FY2030.

Impact on Business Strategies and Financial Planning

Under the 1.5°C scenario, we assumed that there would be no acute or chronic physical risks from climate change at a level that would affect our business, but that policies, laws and regulations to combat climate change would be strengthened; we estimated the impact of a carbon tax on par with those in Europe. Furthermore, we will closely monitor the future developments of carbon pricing as a domestic regulatory measure. In the 4°C scenario, we assumed that there would not be strengthening of policies, laws and regulations, including the strengthening of climate change countermeasures, and that transition risks in the areas of technology, markets and reputation would not materialize. However, under this scenario, we expect to see physical impacts of climate change, such as more severe extreme weather events. Based on the ¥770 million cost of restoration for damage in FY2019, which was the most severe damage incurred by company due to heavy rainfall in recent years, we have estimated the potential financial impact that is expected to occur in the future. Based on our analysis of the financial impact of disaster recovery costs, we have secured an appropriate budget and are prepared to respond quickly.

Contributing to the Global Environment with the Power of Technology

Value Creation 1 Contribute to the Mitigation of Climate Change through Technology and Business

Disclosure Based on the TCFD Recommendations

▼ Identified Risks and Opportunities

Risk type	Category	Identified Risks	Scenario	External Scenario	Financial Risks ^{1,2}			Response Measures/Opportunities
					Short-term	Medium-term	Long-term	
Transition Risk	Policy and Legal	Increased tax burden due to introduction of carbon tax	1.5°C scenario	IEA:NZE/SDS/STEPS	Small	Small	Small	<ul style="list-style-type: none"> Achieve the Net Zero target (FY2050) Achieve carbon neutrality (FY2030)
	Technology	Impact on business promotion due to delay in introduction of energy-saving technologies			Small	Small	Small	<ul style="list-style-type: none"> Switch to energy-saving equipment Improve efficiency of electricity use through the use of AI and IoT
	Market	Impact on sales due to delays in providing decarbonization services			Small	Small	Small	<ul style="list-style-type: none"> Promotion of renewable energy power supply Expansion of remote services and e-commerce markets to reduce travel Expansion of businesses related to the sharing economy Expansion of the market for energy-efficient solutions
	Reputation	Damage to brand image and impact on stock price if decarbonization efforts are deemed insufficient			Small	Small	Small	<ul style="list-style-type: none"> Proactive information publication Contribution to the reduction of CO₂ emissions in society as a whole Encourage people to change their behavior through online fundraising, etc.
Physical Risk	Acute	Increased repair costs due to increased base station damage	1.5°C scenario	IPCC SSP1-1.9	Small	Small	Small	<ul style="list-style-type: none"> Reinforcement of power supply, installation of generators and long-life batteries Improved wind pressure resistance of antenna support columns Backbone network redundancy Construction of a high-altitude communication network in the stratosphere
			4°C scenario	IPCC SSP5-8.5	Small	Small	Small	
	Chronic	Increased air conditioning costs due to rising temperatures	1.5°C scenario	IPCC SSP1-1.9	Small	Small	Small	<ul style="list-style-type: none"> Switch to energy-saving equipment Improve efficiency of electricity use through the use of AI and IoT
			4°C scenario	IPCC SSP5-8.5	Small	Small	Small	

Risk Management

Climate change-related risks are selected and reviewed by the Environment Committee under the supervision of the Executive Officer in Charge of ESG Promotion. The identified risks are analyzed, taking into consideration various external factors, and evaluated by the Executive Officer in Charge of ESG Promotion. As a result of the scenario analyses in FY2022, it was confirmed that there are no significant risks related to changes in strategy.

Integration into the Company-wide Risk Management Process

In order to identify and prevent the manifestation of company-wide risks, we have established a management system that analyzes risks from various angles within the company. Each division includes risks in considerations when proposing measures at the applied business level. In addition, the Risk Management Division periodically identifies company-wide and comprehensive risks, checks the status of countermeasures, and reports the results to the Risk Management Committee. The Risk Management Committee determines the level of importance of risks and the person responsible for dealing with them (risk owner), issues instructions on countermeasures, and reports the status to the Board of Directors. The Internal Audit Department confirms these overall risk management systems and conditions from an independent standpoint.

Climate change risks managed by the Environment Committee are integrated into company-wide risk management, and through regular risk management cycles, we are working to reduce and prevent risks.

1. Financial risk: Impact on consolidated operating income is described in three levels (large, medium and small).
 2. Time horizons: Short-term (2023), medium-term (~2025), and long-term (2026-)

Contributing to the Global Environment with the Power of Technology

Value Creation 1 Contribute to the Mitigation of Climate Change through Technology and Business

Disclosure Based on the TCFD Recommendations

Metrics and Targets

To manage the risks and opportunities that climate change poses to the company, we manage environmental impact data, including greenhouse gas emissions (Scope 1, 2, and 3). In FY2022, Scope 1 and 2 greenhouse gas emissions totaled 579,919 t-CO₂ and Scope 3 emissions totaled 9,368,649 t-CO₂. This data's coverage extends over 99.4% of consolidated group sales, unless otherwise noted.

Targets and Performance

Our main goal is to achieve carbon neutrality by reducing greenhouse gas emissions from electricity used in our business activities to net zero by 2030.

We used renewable energy for 30% of base station power in FY2020, 50% in FY2021 and 70% in FY2022. In addition, we will promote the reduction of greenhouse gas emissions from all of our other facilities and equipment to achieve net zero greenhouse gas emissions from FY2030 onward.

The carbon neutrality target covers Scope 1 (direct greenhouse gas emissions by the company itself) and Scope 2 (indirect emissions from the use of electricity, heat and steam supplied by other companies) for SoftBank Corp. and its major subsidiaries (representing 100% of consolidated sales).

In June 2023, SoftBank Corp. announced its commitment to achieve net-zero greenhouse gas emissions associated with all business activities (including supply chain emissions) across Scope 1, 2 and 3 by FY2050. At the same time, we also committed to acquiring SBT Net-Zero certification of this long-term target, and have been advancing related initiatives.

Category		Unit	FY18	FY19	FY20	FY21	FY22
Greenhouse Gas (GHG) Emissions (Scope 1, 2)	Total	t-CO ₂	693,953	776,104	620,929	708,534	579,919
	GHG Scope 1	t-CO ₂	11,456	15,803	15,416	10,709	13,998
	GHG Scope 2	t-CO ₂	682,497	760,301	605,513	697,825	565,921
	GHG Emissions Intensity ¹	t-CO ₂ /Gbps	682	628	411	359	249
Greenhouse Gas (Breakdown of Scope 1)	Carbon Dioxide (CO ₂)	t	—	—	14,962	10,134	13,427
	Methane (CH ₄)	t-CO ₂	—	—	293	25	17
	Dinitrogen Monoxide (N ₂ O)	t-CO ₂	—	—	0.03	3.00	2.35
	Hydrofluorocarbons (HFCs)	t-CO ₂	—	—	162	547	551
	Perfluorocarbons (PFCs)	t-CO ₂	—	—	0	0	0
	Sulfur Hexafluoride (SF ₆)	t-CO ₂	—	—	0	0	0
	Nitrogen Trifluoride (NF ₃)	t-CO ₂	—	—	0	0	0
Greenhouse Gas (GHG) Emissions (Scope 3)		t-CO ₂	—	5,931,433	3,121,487 ²	8,685,602	9,368,649
Energy	Electric Power Consumption	MWh	1,355,703	1,644,234	1,680,530	2,117,259	2,278,902
	Of which, Renewable Energy Consumption	MWh	44	32,516	324,766	631,248	998,571
	Renewable Energy Rate	%	0.0	2.0	19.3	29.8	43.8
	City Gas	m ³	4,554,000	4,508,000	4,914,000	3,256,578	3,067,817
	Heavy Oil A	kL	190	160	198	213	354
	Energy Consumption Intensity ³	MWh/Gbps	1,332	1,296	1,124	1,084	979
	Electric Power Consumption in Data Centers	MWh	73,670	263,620	271,711	534,275	565,824
	Of which, Renewable Energy Consumption	MWh	0	20,874	23,503	133,946	253,863
	Renewable Energy Rate	%	—	7.9	8.6	25.1	44.9
	Power Usage Effectiveness	—	1.74	1.57	1.50	1.42	1.34

1. Greenhouse gas emissions at 1 Gbps

2. Coverage for FY2020 greenhouse gas emissions (Scope 3) differs from other years

3. Electric power consumption at 1 Gbps

Notes: 1. FY2022 coverage was 99.4% (consolidated net sales basis). However, GHG emissions intensity figures are for SoftBank Corp. alone (non-consolidated).

2. The increase in FY2021 is due to an expansion in boundaries.

3. Scope 1 and 2 emissions and energy consumption were verified by the Japan Quality Assurance Organization, a third-party institution (verified ISO 14064-3 compliant with a limited level of assurance).

Contributing to the Global Environment with the Power of Technology

Value Creation 1 Contribute to the Mitigation of Climate Change through Technology and Business

Disclosure Based on the TCFD Recommendations

Category	Unit	FY22	Rate (%)	Scope 3 Description of Calculation
Scope 1: Direct Emission	t-CO ₂	13,998	0.1	—
Scope 2: Indirect Emission of Energy Sources		565,921	5.7	—
Scope 3: Other Indirect Emission		9,368,649	94.2	—
Category 1: Purchased Goods and Services		2,916,405	29.3	Calculated by multiplying the purchase price of products and services by the CO ₂ emission factor, including the procurement and transportation processes
Category 2: Capital Goods		1,312,591	13.2	Calculated by multiplying the capital investment amount by the CO ₂ emission factor of capital goods
Category 3: Fuel- and Energy-Related Activities Not Included in Scope 1 or Scope 2		1,262,619	12.7	Calculated by multiplying fuel/electric power consumption by the CO ₂ emission factor for fuel procurement in manufacturing processes and, for electric power procured for sale from external sources, calculated by multiplying the amount of electric power by the CO ₂ emission factor upon fuel procurement
Category 4: Upstream Transportation and Distribution		147,001	1.5	Calculated by multiplying transportation costs by the CO ₂ emission factor for transportation between bases and shipping (Procurement transportation is included in Category 1)
Category 5: Waste Generated in Operations		1,986	0.0	Calculated by multiplying the weight of industrial waste by the CO ₂ emission factor for each kind of waste disposal method
Category 6: Business Travel		14,780	0.1	Calculated by multiplying the amount paid for transportation allowances by the CO ₂ emission factor for each transportation category, by multiplying the number of days of accommodation by the CO ₂ emission factor per day of accommodation, and by multiplying the total travel distance of rental cars by the CO ₂ emission factor for each fuel type and maximum loading capacity
Category 7: Employee Commuting		17,295	0.2	Calculated by multiplying the total commuting distance of employees by the CO ₂ emission factor per km of travelers for each transportation category and multiplying the power consumption during telework by the CO ₂ emission factor of electric power
Category 8: Upstream Leased Assets		428,056	4.3	Calculated by multiplying the total floor area of warehouses and rental offices by the CO ₂ emission factor per area for each building use and by multiplying the electric power consumption of telecommunications equipment installed and operated at rental properties by the CO ₂ emission factor for electric power
Category 9: Downstream Transportation and Distribution		678,913	6.8	For shipping, it is calculated by multiplying transportation costs by the CO ₂ emission factor
Category 10: Processing of Sold Products		0	0.0	(Not to be calculated)
Category 11: Use of Sold Products		2,397,972	24.1	Calculated by multiplying the number of products sold/rented by lifelong power consumption of each product and the CO ₂ emission factor of electric power
Category 12: End-of-Life Treatment of Sold Products		160,830	1.6	Calculated by multiplying the total weight of products sold by the CO ₂ emission factor for each kind of waste
Category 13: Downstream Leased Assets	961	0.0	Calculated by multiplying the number of units rented by electric power consumption and the CO ₂ emission factor for electric power	
Category 14: Franchises	29,242	0.3	Calculated by multiplying the total floor area of franchise shops by the CO ₂ emission factor per area for each building use	
Category 15: Investments	0	0.0	(Not to be calculated)	
Total		9,948,568	100.0	

Notes: 1. Coverage (consolidated net sales basis) is as follows. Scope 1, 2: 99.4%; Scope 3: 90.9%
 2. Verified by the Japan Quality Assurance Organization, a third-party institution (verified ISO 14064-3 compliant with a limited level of assurance).

External Evaluations

CDP Climate Change

In recognition of its strategy and response to climate change, in FY2022, SoftBank Corp. received an "A-" rating from the CDP (headquarters: London, UK), an international non-profit organization that conducts environmental assessments of major corporations and cities around the world.



CDP Supplier Engagement Rating

In 2022, SoftBank Corp. was selected for the leaderboard, the highest designation, in the CDP's Supplier Engagement Rating for its efforts to combat climate change throughout the supply chain.



Verified by Science Based Targets

The targets of SoftBank Corp.'s Carbon-Neutral 2030 Declaration, aimed at achieving zero greenhouse gas emissions by 2030, were verified in June 2021 by the Science Based Targets initiative (SBTi) as being based on sound scientific grounds.



Contributing to the Global Environment with the Power of Technology

Value Creation 1 Contribute to the Mitigation of Climate Change through Technology and Business

External Evaluations

EcoVadis

In 2022, French evaluation organization EcoVadis awarded SoftBank Corp. a silver rating based on its sustainability questionnaire. Our efforts received high ratings across all four themes: Environment, Labor & Human Rights, Ethics and Sustainable Procurement.



Ministry of the Environment Eco-First

SoftBank Corp. has been certified as an Eco-First Company by the Minister of the Environment for declaring that it will engage in "advanced, unique and industry-leading business activities" in the field of the environment, including measures against global warming, waste and recycling.



Excellent Reliability Report Award in the Ministry of the Environment's Environmental Communication Awards

In recognition of its high level of disclosure in environmental reporting, SoftBank Corp. received the Excellent Reliability Report Award (Chairman's Award of The Japanese Association of Assurance Organizations for Sustainability Information) in the environmental reporting category of the 24th Environmental Communication Awards.



Participation in Industry Associations and Other Projects

Environmental Management Subcommittee of the United Nations Global Compact

SoftBank Corp. is part of an environmental management subcommittee consisting of members of Global Compact Network Japan (GCNJ), a local network of the United Nations Global Compact (UNGC). As a member of this subcommittee, we gather the most up-to-date information while striving to resolve issues through discussions with other member companies.



GX League

SoftBank Corp. participates in the Green Transformation (GX) League set up by the Ministry of Economy, Trade and Industry. We are working with other participating companies to contribute to the transformation of the overall economic and social system and creation of new markets from the perspectives of achieving carbon neutrality by 2050 and achieving a positive cycle of economic growth and environmental sustainability.



Renewable Energy Council

SoftBank Corp. participates as an associate member in the Renewable Energy Council consisting of prefectures throughout Japan, and the GDC Renewable Energy Council, which consists of government designated cities. Together with local governments from 34 prefectures and 20 cities throughout Japan, we make policy proposals and share information to promote the spread of renewable energy. In FY2022, we made policy recommendations to the Ministry of the Environment and the Ministry of Economy, Trade and Industry regarding the promotion of agile fiscal spending aimed at realizing decarbonization, budgetary measures for achieving the national target of carbon neutrality in 2050, and the implementation of carbon pricing and other measures.

TCA/GSMA

SoftBank Corp. participates in the Climate Action Taskforce, which addresses climate change and other environmental issues as an initiative of the GSM Association (GSMA), an organization of global telecommunications carriers. Furthermore, we have joined the Environmental Committee of the Telecommunications Carriers Association (TCA), which comprises domestic communications operators. Through this committee, we exchange information concerning climate change, circular economy initiatives and other environmental matters with the personnel responsible for environmental concerns at other member organizations.

Membership in the TCFD Consortium

SoftBank Corp. is a member of the TCFD Consortium, which includes companies and financial institutions that support the TCFD recommendations and cooperate to promote relevant initiatives. The consortium was established as a forum for discussions concerning the effective disclosure of corporate information and efforts aimed at using this information to support appropriate investment decisions from financial institutions and other organizations.



Participation in the Fun to Share Climate Change Campaign

SoftBank Corp. supports the Ministry of the Environment's Fun to Share campaign, through which participants can enjoy sharing and disseminating knowledge and technology that supports the achievement of a prosperous low-carbon society. Accordingly, we are contributing to the realization of a low-carbon society by raising employee awareness regarding energy conservation and promoting voluntary initiatives. Relevant efforts include power and energy conservation measures for using office facilities or conducting operations, as well as recommending seasonally appropriate business attire through the company's intranet.



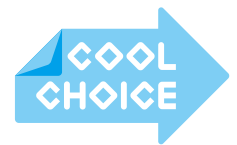
Contributing to the Global Environment with the Power of Technology

Value Creation 1 Contribute to the Mitigation of Climate Change through Technology and Business

Participation in Industry Associations and Other Projects

Endorsement of the COOL CHOICE National Movement

SoftBank Corp. supports the COOL CHOICE national movement being led by the Ministry of the Environment. COOL CHOICE encourages consumers to make smart choices in all aspects of living as a way of mitigating global warming, such as choosing energy-saving, low carbon products, services, and actions. We are promoting awareness in line with the goals of the movement.



As part of our activities to popularize and expand the use of renewable energy, SoftBank Corp. is contributing to addressing global warming by providing a "Shizen Denki"* (electricity from renewable sources) plan that utilizes essentially renewable energy.

* A service that provides 100% renewable energy sourced through the use of non-fossil certificates.

Participation in Public-Private Partnership Council for New National Movement

SoftBank Corp. is participating in the Public-Private Partnership Council for New National Movement, which comprises the national government, municipalities, private companies, civic organizations and consumers, to advance the national movement for new and prosperous lifestyles toward decarbonization, a project of the Ministry of the Environment aimed at transforming the behavior and lifestyles of citizens and consumers to achieve decarbonization. By taking part in the Council, SoftBank Corp. is contributing to the national movement by helping citizens and consumers transition to new lifestyles.

Acquisition of Eco-ICT Mark

SoftBank Corp. supports the aims of the ICT Ecology Guideline Council and has been awarded the Eco ICT Logo, which is granted to companies that have achieved a set of standards determined



by the council. This award recognizes our efforts to reduce CO₂ emissions as a communications operator, which include the formulation of procurement standards that are focused on reducing CO₂ emissions and cover both equipment and services.

Participation in the ETI-CGC Industry-academia Collaborative Platform

SoftBank Corp. is participating in the Energy Transition Initiative-Center for Global Commons (ETI-CGC), an industry-academia collaborative platform established by the University of Tokyo's Center for Global Commons (CGC) together with 13 Japan-based companies to discuss pathways and policies to achieve net zero carbon emissions by the middle of this century.

Membership in Japan Climate Leaders' Partnership

SoftBank Corp. is a supporting member of the Japan Climate Leaders' Partnership (JCLP), an enterprise group aimed at realizing a sustainable decarbonized society. We will contribute to the development of a sustainable society by strengthening our own efforts toward decarbonization through keeping tabs on the latest trends in decarbonization initiatives and by building relationships with companies that are leading the way.



Participation in Future Creation Conference

SoftBank Corp. took part in the Future Creation Conference alongside the Ministry of Economy, Trade and Industry and National Institute of Advanced Industrial Science and Technology to backcast from the future society we aim for to the possible future (transition period) with the aim of studying, proposing and implementing action plans for realization. Discussions at the conference included the actions that Japan should take for green transformation (GX).

Primary Initiatives

Initiatives of Group Companies

Demand Response Service through Eco-Denki App

Group company SB Power Corp. provides the Eco-Denki App free of charge to SoftBank Denki customers. This app enables users to check their past electricity bills and forecast their bill for the coming month. It also provides a Power Saving Challenge, a power-saving (demand response) service that utilizes proprietary AI technology. As of June 2022, these power-saving services were used by the majority of SoftBank Denki customers.

Power Saving Challenge is a service that asks customers to cooperate in saving electricity through the app during periods of peak power use and awards them PayPay points based on their success in doing so. Users can check their power savings and rewards the next day, like a game. In FY2022, Power Saving Challenge led to an annual power savings of 18,010 MWh and an emissions reduction effect of 9,400 t-CO₂.

Furthermore, in August 2022, SB Power began offering the Electricity-Saving Challenge Package, a generic power-saving service for electricity retailers that features the point-granting function of the Power Saving Challenge. As of December 2022, the service was used by five major electricity retailers.



The Eco-Denki App

Contributing to the Global Environment with the Power of Technology

Value Creation 2

Promote a Recycling-based Society (Circular Economy)

We reduce our environmental impact and contribute to the achievement of a recycling-based society by promoting business activities that are based on sustainable production and consumption through the application of the three Rs (reduce, reuse, recycle) and mobile phone recycling initiatives.

Promoting a Recycling-based Society

In order to effectively use limited resources, SoftBank Corp. promotes the reuse and recycling of used mobile phones and promotes the resource recovery of communication equipment, such as cables and exchanges, used when updating or decommissioning network equipment. Furthermore, SoftBank Corp. contributes to the promotion of a recycling-based society by actively advancing paperless operations through the utilization of smart devices, reducing plastics and waste, and effectively using water resources.

Promotion of 3R Activities through Mobile Phone Services

Reduce

We are striving to reduce the amount of paper resources used when selling mobile devices by reducing the size of boxes used for individual packaging, replacing documents that come with devices such as instruction manuals with electronic applications, and utilizing iPads instead of paper documents in stores. Additionally, in place of conventional paper invoices, we launched our Online Fee Guide, which allows all customers with individual subscriptions to view electronic invoices via the Internet using SoftBank mobile phones or personal computers, starting with the October 2006 billing cycle.

Reuse

We encourage customers to trade in operational mobile phones and tablets when upgrading to new devices. The disposal of still-usable mobile phones and tablets has a major environmental impact. We refurbish traded-in devices and ship them to areas where they can be reused, primarily in emerging countries.

Recycle

As a member of the Mobile Recycle Network (MRN), which conducts mobile phone and PHS recycling activities, we collect used mobile phones, battery packs and charging devices, regardless of the original mobile network operator or manufacturer. When collecting and subsequently recycling these devices, we ensure customer privacy by completely erasing smartphone data and physically demolishing flip phones using a flip-phone hole punch device. In FY2022, we collected a total of 2.22 million used mobile phones for reuse and recycling.



Resource Recovery

As part of our product stewardship efforts, which are aimed at reducing our environmental impact, we recycle used mobile phones, battery packs and other accessories collected from customers, enabling the recovery of such resources as rare metals (palladium, cobalt, etc.), gold, silver and copper. In addition, we strive to recycle residue (slag) left over after the recycling process as raw material for concrete and cement, and plastic obtained from mobile phones as auxiliary fuel and reprocessed plastic. We also implement resource recovery from equipment other than mobile phones, such as cables, exchanges, utility poles and other communication equipment waste generated during network equipment replacement or decommissioning.

Recycling Education Activities

In collaboration with local governments and other organizations, SoftBank Corp. holds an environmental class called Risaikuru to teach the importance of recycling through the experience of disassembling mobile phones. By actually disassembling a mobile phone to learn about its structure and materials, and by working with the disassembled mobile phone parts, participants can have fun being creative while better understanding the importance of recycling.

More than 700 children participated in the Risaikuru course between April 2018 and March 31, 2023.



Contributing to the Global Environment with the Power of Technology

Value Creation 2 Promote a Recycling-based Society (Circular Economy)

Promoting a Recycling-based Society

Efforts to Reduce Paper Usage

Zero Paper for Internal Operations Declaration

Since April 2012, we have been promoting our Zero Paper for Internal Operations Declaration. In accordance with this declaration, we are actively striving to eliminate our use of paper in a variety of internal and external procedures, including reports and meeting materials. We have successfully reduced paper-based printing by 90% compared to FY2011. In addition, a project to digitize the process of marking official documents with seals in order to improve operational efficiency launched in April 2021 has progressed smoothly, contributing greatly to the promotion of paperless operations.

Use of Environmentally Friendly Materials in Business Tools

Recyclable Paper Bags

All paper bags with company logos used by SoftBank Corp. employees for sales activities are made of recyclable materials. In addition to eliminating plastic lamination on the bag surface, we do not use plastic for the handle.



Handles are tied on, which avoids the need for adhesives or fasteners. The bags use recyclable paper that has been approved by the Forest Stewardship Council® (FSC®), an international non-profit organization established with the aim of disseminating responsible forest management throughout the world. Logos are printed in vegetable ink that is more biodegradable than petroleum-based solvents and emits almost no volatile organic compounds, thereby contributing to reducing environmental load.

Use of Biomass Plastic

We are gradually transitioning to bags made of biomass plastic for use when distributing catalogs and delivering products to customers at SoftBank shops and Y!mobile shops. The new bags have acquired the Biomass Mark and use a high ratio (80%) of plant-derived materials. By transitioning from petroleum-derived plastics to plant-derived biomass plastics, SoftBank Corp. will contribute to CO₂ reduction without compromising customer convenience.

Utilization of Kudzu, an Underused Resource

In March 2021, SoftBank participated in the Kudzu Utilization Consortium in Kakegawa City. We distribute business cards partially made from kudzu to our employees. In addition to reducing the amount of wood pulp used, this helps to promote the kudzu fabric industry, which is a traditional craft of Kakegawa City, and to prevent the impact of kudzu overgrowth on the landscape and ecosystem. Moreover, by distributing business cards, it also fulfills a major role in disseminating information internally and externally.



Business cards made using kudzu

Waste Reduction

Proper Disposal of Waste

Through recycling efforts, we are striving to cut back on the landfill disposal of communications equipment and construction waste associated with network infrastructure. At the same time, we appropriately dispose of waste resulting from business activities in accordance with the Waste Management and Public Cleansing Act.

Reuse of Equipment and Stationery

With the goal of reducing waste for the good of the environment, we have installed a reuse shelf in the employee support center at our corporate headquarters. Departments can place equipment and stationery they no longer need on this shelf, where it can be collected and reused internally. In addition, we have shifted to a system of shared stationery equipment, instead of stationery belonging to individuals or specific departments, and set up lending spaces on each floor.

Contributing to the Global Environment with the Power of Technology

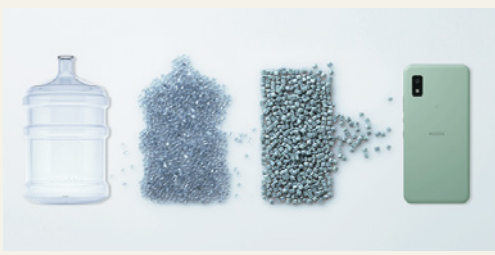
Value Creation 2 Promote a Recycling-based Society (Circular Economy)

Promoting a Recycling-based Society

Environmentally Conscious Initiatives with Smartphones

Smartphones Made with Recycled Plastic

Recycled plastic is used in the casing of the smartphones SoftBank Corp. provides under the SoftBank and Y!mobile brands. We have also reduced the paper used in packaging for these products by adjusting the materials and structure to realize thinner packaging. Through such efforts, we are promoting ethical, environmentally conscious smartphone sales.



Group Company Initiatives

Reducing Environmental Load Internally (Yahoo! JAPAN)

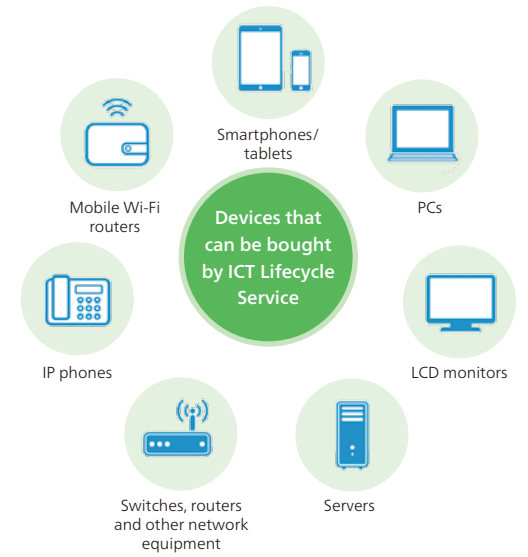
Yahoo Japan Corporation is implementing a range of measures to reduce its environmental load. These include the use of LED lighting throughout its offices, sorting waste into 15 categories, distributing laptop computers to move work processes and documents online, shifting to paperless electronic payslips and recycling paper documents.



In November 2022, Yahoo Japan selected HPE Asset Upcycling Services (AUS), provided by Hewlett Packard Enterprise, to recycle and reuse its end-of-use IT assets. Until now, when removing or disposing of IT devices, Yahoo Japan's hard disc drives and other storage media were not reused, but destroyed with a specialized tool and treated as waste. With AUS, the data on such devices is erased without destroying the devices themselves, enabling their reuse. To prevent security risks associated with not destroying the devices, AUS provides measures at every step of the process, including dedicated lockable cages for Yahoo Japan, sealed trucks, GPS tracking and route reporting. This allows for the reuse of IT assets without compromising on thoroughgoing security measures.

Buying Unneeded ICT Equipment (SB C&S Corp.)

SoftBank Corp. group company SB C&S Corp. provides ICT Lifecycle Service to promote the 3Rs and help realize a circular economy by buying ICT devices that customers no longer need. This comprehensive service extends from device appraisal to transportation and the erasure of data. In December 2022, the cumulative number of devices bought through this service reached approximately 600,000. In addition to promoting environmentally friendly reuse and recycling, the service suppresses the generation of waste and helps reduce the burden of disposal procedures and industrial waste-related costs for companies. SB C&S is creating new products and services to contribute to the formation of a circular economy and protect valuable global resources.



Contributing to the Global Environment with the Power of Technology

Value Creation 2 Promote a Recycling-based Society (Circular Economy)

Promoting a Recycling-based Society

Metrics and Targets

We manage data on environmental load in order to contribute to the creation of a recycling-based society. Our main targets are to collect 12 million used mobile phones for reuse or recycling (FY2020–FY2025) and to dispose of less than 1% of decommissioned base stations in landfills.

▼ Decommissioned Base Station Landfill Disposal Rate/Used Mobile Phones Collected for Reuse or Recycle

Category		FY2020	FY2021	FY2022
Decommissioned base stations	Landfill disposal rate (%)	0.51	0.20	0.04
Used mobile phones	Collected for reuse/recycling	2,541,078	2,532,827	2,229,218

Note: Values are for SoftBank Corp. (non-consolidated).

▼ Industrial Waste and Landfill Disposal

Item (unit)	FY2018	FY2019	FY2020	FY2021	FY2022
Industrial waste (t)	1,092	5,226	6,313	6,196	6,398
Landfill disposal (t)	33	153	831	528	557

Notes: 1. FY2022 coverage was 90.7% (consolidated net sales basis).
 2. Values increased in FY2019 due to a change in boundaries.
 3. The method of calculating the landfill disposal amount was changed from FY2020.
 4. Verified by the Japan Quality Assurance Organization, a third-party institution (verified ISAE 3000 compliant with a limited level of assurance).

Appropriate Use of Water Resources

We recognize that water is both necessary for our business activities and an important resource for the local communities in which our business sites are located. Accordingly, we are addressing water risk and promoting the efficient use of water resources on a company-wide basis under the supervision of the executive officer in charge.

▼ Water Usage

Category	FY2020	FY2021	FY2022
Water usage (m ³)	1,330,834	675,729	731,594

* For offices not equipped with meters, consumption is estimated based on floor area using data on consumption per unit of floor area for the SoftBank Corp. group.
 Notes: 1. FY2022 coverage was 75.8% (individual company net sales basis).
 2. Due to a change in definition in FY2022, the figures for FY2021 have been retroactively adjusted.
 3. Verified by the Japan Quality Assurance Organization, a third-party institution (verified ISAE 3000 compliant with a limited level of assurance).

Water Risk and Water Resource Management Initiatives

We are implementing water usage management initiatives, including setting water usage targets and regularly managing and evaluating progress on relevant activities.

At Tokyo Portcity Takeshiba Office Tower, where SoftBank Corp.'s headquarters is located, rainwater is collected via a roof drain. Kitchen wastewater is also collected, stored and sterilized. The collected water is reused for flushing toilets, reducing non-potable service water use by more than 30%.

In addition, on each floor, we have fitted hot water supply systems with water-saving equipment and installed noise machines in toilet stalls to reduce the number of times toilets are flushed. We are also raising employee awareness regarding water conservation by informing them of these activities through our intranet and other media.

Contributing to the Global Environment with the Power of Technology

Biodiversity and Natural Capital Conservation

SoftBank Corp. supports the international community's goal of being nature positive. To that end, we are promoting efforts to reduce impacts on biodiversity and address deforestation due to land development associated with business activities, including the value chain. Furthermore, we endorse the principles of the Task Force on Nature-related Financial Disclosures (TNFD) and actively promote information disclosure based on the TNFD disclosure framework. In order to ensure a sustainable planet with functioning ecosystems for future generations, we promote initiatives related to biodiversity conservation within our business operations and ask all of our suppliers (tier-1 and non-tier-1) and business partners to cooperate, as well. We also work with external partners to conserve biodiversity through business activities and social contribution activities.

Biodiversity Conservation

Governance

SoftBank Corp. has established the ESG Promotion committee as an advisory body to the Board of Directors. The President and CEO serves as the Chief ESG Officer and bears ultimate responsibility for overall sustainability activities under the supervision of the Board of Directors. In FY2023, the ESG Promotion Committee established a policy on biodiversity and a material issue KPI regarding the mitigation of biodiversity impact associated with land development.

Strategy

We conduct evaluations of dependencies, impacts and business risks related to the global environment, including biodiversity and climate change, encompassing the areas near the company and its business operations, as well as upstream and downstream in the supply chain. The identified dependencies, impacts and business risks are analyzed, taking into account various external factors, and evaluated by the Executive Officer in Charge of ESG Promotion.

Furthermore, considering the identified risks and impacts, as well as the company's unique circumstances, we have conducted surveys of the proximity between base stations and areas of significant biodiversity, confirming that none of our facilities present an urgent need for measures in terms of the significance or integrity of biodiversity.

Identified Dependencies, Impacts and Business Risks

	Dependency	Impact	Physical Risk	Social Risk
Water	Large volume use in semiconductor manufacturing for use in radio equipment, etc.	Water scarcity and land subsidence induced by excessive water extraction; water pollution	Impact of supply chain water shortages on product sourcing Impact of water shortages on business promotion	<ul style="list-style-type: none"> Loss of orders or product boycotts due to inadequate recognition of our environmental efforts Impact of insufficient disclosure on investments, financing and stock price due to insufficient disclosure Loss of business opportunities due to delayed response to market changes Increased management workload due to heightened litigation risks, etc.
	Server cooling water			
Forests (land utilization)	Supply of rare metals, etc., for use in radio equipment	Deforestation and soil contamination associated with mining development	Impact of tightening supply chain regulations on product sourcing	
	Disaster prevention functions of base stations, mainly in mountainous areas	Deforestation, weed control and other changes to forest ecosystems due to land modification associated with construction	Impact of tightening regulations on business promotion	
	Land for construction of large facilities			
Supply of paper used for products and sales	Deforestation due to pulp and paper production			
Other	Soil contamination and other issues caused by improper disposal of waste and e-waste associated with business operations			
	Marine outflow or leakage due to improper disposal of plastics used in products, promotional materials, etc.			
	The introduction of invasive species due to the importation of products, etc.			

Risk and Impact Management

In order to identify and prevent the manifestation of company-wide risks, we have established a management system that analyzes risks from various angles within the company. Risks related to the global environment, including biodiversity and climate change that have been identified are integrated into company-wide risk management, and through regular risk management cycles, we work to reduce and prevent risks. The Risk Management Committee determines the importance of risks and the person responsible for dealing with them (risk owner), issues instructions on countermeasures and reports the status to the Board of Directors.

Metrics and Targets

In order to fulfill its responsibility of providing stable communication services, in some cases, SoftBank Corp. cannot avoid installing network facilities in natural preserves designated by the national government or international agreement. The total area of telecommunication facilities and other equipment installed in nature preserves in FY2022 was 492 m².

SoftBank Corp. has long been engaged in forest conservation efforts, and in FY2023, we have set the goal of conserving a greater area of forest than the area developed in the previous fiscal year, including that of natural preserves. We plan to continue these efforts in the future.

Contributing to the Global Environment with the Power of Technology

Biodiversity and Natural Capital Conservation

Primary Initiatives

Marine Environment Protection through Coral Conservation

In recent years, the marine environment has been deteriorating rapidly due to a variety of problems, including global warming caused by climate change and environmental destruction caused by the increase in marine plastic waste. To protect the marine environment, SoftBank Corp. launched the Future and Coral Project in July 2019 in collaboration with various corporations and organizations, including Onna Village in Okinawa Prefecture, which shares our aspiration for protecting the marine environment and realizing a future with beautiful oceans.

The Future and Coral Project is intended to protect coral and ensure that it exists in the future. Coral, which is being severely damaged by global warming, fulfills a major role in the ecosystem, providing a habitat for marine life. The project consists of initiatives to collect donations, purchase coral seedlings, hold volunteer tours for planting the coral seedlings, conduct cleanup activities for local beaches, and disseminate information to raise awareness of the current situation and importance of coral.

On March 5, 2023, the project took part in Coral Day events held in Onna Village. Around 300 volunteers carried out the environmental conservation activities that included planting coral seedlings, "Green Clean" tree planting and a beach cleanup.



Planting a coral seedling



"Green clean" tree planting

Future and Coral Project
Cumulative coral seedlings planted: 332
 (as of June 2023)

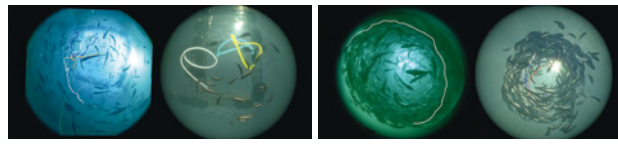
Smart Aquaculture through Research into Fish Schooling Behavior

Feeding is an extremely important aspect of aquaculture in terms of maintaining the aquatic environment and promoting efficiency. However, feeding is currently dependent on the gut feelings and experience of human staff based on their observations of fish behavior from above the water's surface, as there is no effective way to monitor fish underwater. Optimized feeding is necessary both to support fish farming businesses and to protect the aquatic environment.

SoftBank Corp. simulated fish schooling behavior, which is essential to creating a feeding simulation. Until now, no method had been proposed to autonomously simulate fish schooling behavior while accounting for such variables as cage size, fish density and fish species. Through this research, using deep reinforcement learning, we showed that fish behave differently in sparse and dense conditions and verified the results by comparing them to actual video footage.

A paper authored jointly by SoftBank Corp. and U.S.-based NeuralX, Inc. was accepted by Neural Information Processing Systems 2022 (NeurIPS 2022), a top-ranked conference in

Comparison of Real Video and Simulation Results (left: sparse conditions; right: dense conditions)



Real video Simulation Real video Simulation

machine learning held in New Orleans, Louisiana, in the United States, from November 28 to December 9, 2022. At NeurIPS 2022, we presented the research results detailed in the paper, including a method of autonomously simulating fish schooling behavior using DRL.

Environmental Education for Employees and Their Families

In collaboration with the C.C.C. Furano Nature School, a non-profit organization chaired by So Kuramoto, we hold an original "Summer Nature School for Parents and Children" program for employees based on the themes of creating healthy relationships between parents and children and thinking seriously about the environment and nature.

Since its launch in 2007, more than 250 parents and children have participated in this program, conducting future-oriented activities, such as tree planting aimed at restoring forests in areas that were formerly used as golf courses.

* Due to the impact of the COVID-19 pandemic, this program was suspended from FY2020 to FY2022.



Contributing to the Global Environment with the Power of Technology

Biodiversity and Natural Capital Conservation

Primary Initiatives

Office Initiatives

SoftBank Corp.'s headquarters are located in Tokyo Portcity Takeshiba Office Tower. The lower floors of the tower have an outdoor area known as Skip Terrace, which is the site of Takeshiba Shinhakkei, a project consisting of eight biodiversity initiatives being implemented by Tokyu Land Corporation. As part of this project, SoftBank Corp. is cooperating with the local community and employees of neighboring companies to implement such initiatives as environmental education programs to contribute to regional biodiversity conservation efforts.

Through Takeshiba Shinhakkei, SoftBank Corp. employees, along with local nursery schools and residents, participate in urban beekeeping and rice planting and harvesting events at Skip Terrace, helping to create an environment of rich greenery while promoting environmental education and community engagement.



Membership in the Japan Business Initiative for Biodiversity

SoftBank Corp. is a network member of the Japan Business Initiative for Biodiversity (JBIB), a collective of companies that enthusiastically conduct activities aimed at protecting biodiversity.

Moving forward, we will continue to perform biodiversity protection activities and promote initiatives that are consistent with global trends in this area.



Participation in the 30by30 Alliance

SoftBank Corp. participates in the 30by30 Alliance, a coalition aimed at protecting at least 30% of the nation's lands and waters by 2030 in order to advance the nature-positive goal of halting and reversing biodiversity loss.

By participating in the alliance, we will work toward biodiversity conservation and the realization of a sustainable society.



Endorsement of the "Initiative based on the Declaration of Biodiversity by Keidanren"

In addition to participating in the Keidanren Committee on Nature Conservation, SoftBank Corp. has endorsed the aims of the Declaration of Biodiversity by Keidanren and the "Initiative based on the Declaration of Biodiversity by Keidanren."



Initiative based on the Declaration of Biodiversity by Keidanren

Membership in the TNFD Forum

SoftBank Corp. has endorsed the principles of the Task Force on Nature-related Financial Disclosures (TNFD) and joined the TNFD Forum in May 2022. We will actively promote information disclosure based on the TNFD disclosure framework.



Contributing to the Global Environment with the Power of Technology

Biodiversity and Natural Capital Conservation

Initiatives of Group Companies

Biotope Maintenance (Yahoo Japan)

Yahoo Japan Corporation cooperates in “City Planning for Formation of an Ecological Network (Ecological Corridor) that Connects Precious Green Areas in the City Center,” a project promoted by Tokyo Garden Terrace Kioicho, where its Tokyo office is located. Accordingly, Yahoo Japan is working to conserve and regenerate biodiversity through biotope development.

Fireflies have been found living in the section of the Imperial Palace’s inner moat near the office. Taking these fireflies as a familiar symbol of natural restoration, efforts have been made to create a habitat for them in the Kioicho biotope. The presence of mature fireflies in the biotope was first confirmed in May 2017, and reconfirmed in July 2023. We will continue working to promote harmony between the natural environment, the planet and future society.



Biotope at Tokyo Garden Terrace Kioicho

Media for a Richer Future (Yahoo Japan)

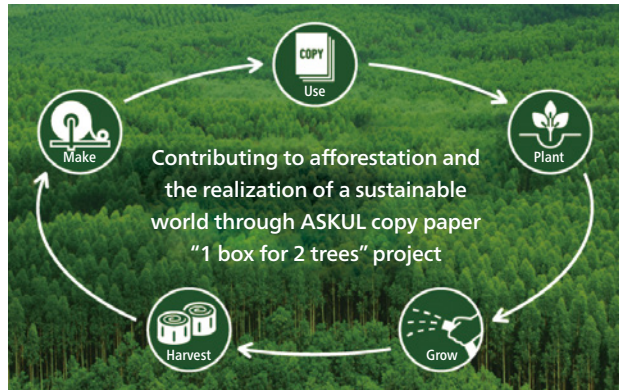
In September 2021, Yahoo Japan launched the Yahoo! JAPAN SDGs media service, offering information about various social issues and initiatives under the theme of the Sustainable Development Goals (SDGs). This media portal highlights initiatives to solve issues related to the environment and sustainability. Some content includes links to fundraising or e-commerce sites to support the people and organizations working to address such issues and help users take action themselves. With the launch of the service, Yahoo Japan also registered as a member of the United Nations SDG Media Compact. Based on the idea that media has a key part to play in mobilizing public opinion and promoting action toward the achievement of the SDGs, the United Nations is calling on media outlets and related organizations around the world to join the SDG Media Compact. Yahoo Japan will continue to work with a variety of external companies and organizations, aiming to contribute to the achievement of the SDGs in Japan by providing information through Yahoo! JAPAN SDGs.



1 Box for 2 Trees (ASKUL)

ASKUL Corporation sells copy paper made in Indonesia. Approximately one farmed tree, such as eucalyptus, is required to produce one box (5,000 A4 sheets) of this paper. The concept of the “1 box for 2 trees” project is to ensure that for each box of paper used, two trees—twice the number needed to make the paper—are planted. In the more than 10 years since its start, as of June 2023, the project has planted approximately 217,140,000 trees covering 154,824 hectares of tree farms in Indonesia.

ASKUL will continue to manage tree farms to sustainably plant, grow and harvest trees while implementing a wide range of initiatives to promote harmony with the surrounding communities, biodiversity conservation and, by doing so, contribute to global environmental conservation.



Contributing to the Global Environment with the Power of Technology

Value Creation 3

Realize a Prosperous Society through the Spread of Renewable Energy

Based on cutting-edge technologies, we are working to save power and shift to electricity from renewable energy at our own facilities and equipment while implementing initiatives to address climate change and promote a circular economy to contribute to the spread of renewable energy in society. Through these efforts, we will help achieve an environmentally friendly society that provides more people with access to natural energy.

Initiatives for Spreading Renewable Energy

Shizen Denki and SoftBank Denki for Biz Environmental Option

SoftBank Corp. and SB Power Corp. provide Shizen Denki, a household electricity fee option offering a renewable energy ratio of essentially 100% and CO₂ emissions of essentially zero¹ to power areas in Hokkaido, Tohoku, Tokyo, Chubu, Kansai, Chugoku, Shikoku and Kyushu. At the same time, SB Power contributes 50 yen per month for each Shizen Denki contract to support activities by forest conservation groups.²

In FY2022, we realized an annual reduction effect of approximately 38,000 tons of CO₂ emissions through the provision of Shizen Denki.

To support the accelerating decarbonization efforts of corporations and local governments, in February 2021, we also began offering the SoftBank Denki for Biz Environmental Option, an optional low-environmental impact power service plan for enterprises. In FY2022, we realized an annual reduction effect of approximately 5,500 tons of CO₂ emissions through the provision of SoftBank Denki for Biz.

Going forward, SoftBank Corp. and SB Power will continue to contribute to the realization of an environmentally friendly society by providing power services that make use of renewable energy.

1. By combining the electricity supplied to customers with non-fossil certificates designated as a renewable energy, this service realizes the supply of electricity with a renewable energy ratio of 100% and zero CO₂ emissions.
2. Donations to organizations that execute projects certified under the J-Credit Scheme operated by the Ministry of Economy, Trade and Industry; the Ministry of the Environment; and the Ministry of Agriculture, Forestry and Fisheries.

