Environment

Environment



In accordance with the Sanki Engineering Group Environmental Policy, we strive to conserve the global environment in all our business activities, including the supply chain, with the intention of realizing a decarbonized society, recycling-oriented society, and society in harmony with nature. Having identified our efforts in response to environmental issues as a key management concern, we are primarily working to contribute to a decarbonized society as our top-priority material issue as well as to use engineering to build a comfortable environment.

Sanki Engineering Group Environmental Policy https://www.sanki.co.jp/en/csr/environment/management/

Environmental Management System

Basic Policy and Management System

Our integrated management system, consisting of an EMS and a QMS, manages the impact in terms of risks and opportunities of our business activities on the environment, including the natural environment that surrounds the Group. In fiscal 2024, we rolled out the system at all Group companies in Japan. Under our system for implementing environmental management, headed by the president, each division sets targets and formulates plans for the implementation of measures in accordance with its annual action plan. Progress is reviewed at the divisional and general meetings. In addition, to bolster the reliability of the management system, Group companies obtain ISO 14001 certification based on their respective situation.

Virtuous Cycle in Management System

In addition to providing training programs on EMS, we are working to improve the level of management by encouraging our employees to acquire qualifications required by environment-related laws and regulations.

In fiscal 2023, we created new training programs for employees who take leadership roles during internal audits, and we conducted 12 environmental management training sessions (1 for new employees, 3 for internal auditors, and 8 for internal audit leaders), which also included Group companies.

We ensure the effectiveness of our management system through internal audits and checks during ISO certification audits. In fiscal 2023, no nonconformities were found in the internal or external audits, and there were no violations of environmental laws and regulations or issues reported regarding noise, dust, or odor at construction sites, confirming that our management system is operating properly.

Environmental Aspects Assessment

We endeavor to reduce our environmental impact by assessing environmental factors and analyzing risks, including potential ones, at each construction site, including those overseas, before construction begins. In assessing its environmental impact, the Sanki Engineering Group uses its own unique JOB Environmental Aspects Assessment List to conduct an accurate and efficient review of the wide variety of applicable environment-related risks and regulations, depending on the nature of work and the surrounding environment. In fiscal 2023, we made major revisions to the list to revise the items and improve sustainability elements, after taking into account local bylaws. In fiscal 2024, we began applying the revised list by adding new items under the category of countermeasures. We seek to reduce risks through linkages with specific countermeasures in addition to assessing the environmental risks.



Number of Employees with Environment-Related

 Certified environmental measurer Non-consolidated: 8 Consolidated: 9

 Supervisor of management of industrial waste subject to special control . Non-consolidated: 227 Consolidated: 255

 Pollution prevention manager (cumulative total) Non-consolidated: 62 Consolidated: 91

 Qualified person for energy management Non-consolidated: 91 Consolidated: 99

onmental Aspects Assesse der the JOB Environmental

1. Reduced use of resources and energy for customers and users

- 2. Reduction and proper disposal of waste 3. Abnormal situations and
- outflow of contaminants 4. Consideration for areas

surrounding construction sites 5. Consideration for unique

environmental needs 6. Natural disasters

7. Legal compliance

- 8. Local bylaws governing job location
- 9. Temporary materials and equipment, and office and other supplies

10. Other aspects

Addressing Climate Change toward a Decarbonized Society

Information Disclosure Based on TCFD Recommendations The Sanki Engineering Group endorses the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD) and discloses climate-related information in accordance with the required framework.

Among the material issues identified, the Sanki Engineering Group places the highest priority on contributing to a decarbonized society, and it is addressing climate change from the perspectives of both risks and opportunities by integrating them into the Group's overall sustainability management and risk management. With regard to climate-related risks, the Risk Management Committee's Climate Change Risk Subcommittee conducts scenario analysis to assess their impact.

We have also received recognition from the CDP, an international non-profit organization that oversees the global disclosure system for companies in managing their environmental impact. Sanki Engineering has been recognized as an "A List" company, the highest rating given by the CDP in the area of climate change, for two consecutive years since fiscal 2022.

Strategies

Scenario analysis is conducted to gain an understanding of the medium and long-term impact of climate change on business. Risks and opportunities identified through the analysis are incorporated into Phase 3 of the Century 2025 medium-term management plan and addressed as part of the plan.

Risk Management Promotion System

We estimated the impacts of the transition associated with changes in policy and market trends, as well as physical risks caused by disasters and other factors, under the 1.5°C and 4.0°C scenarios. For each scenario, we identified risks and opportunities for the Sanki Engineering Group, verified their degree of impact on business, and rated them high, medium, or low.

Adopted Scenarios	Reference So
1.5°C scenario Net zero is reached by 2050 by taking stringent measures against climate change, and the temperature increase in 2100 is limited to 1.5°C or below from the level of the Industrial Revolution	 IEA*1: Net Zero Emiss IPCC*2: Shared Sociod (SSP1-1.9)
4°C scenario Stringent measures against climate change are not taken, and the temperature increase in 2100 is around 4°C from the level of the Industrial Revolution	 IPCC: Representative Pathways (RCP8.5) IPCC: Shared Socio- e (SSP5-8.5)

narios

sions by 2050 (NZE) peconomic Pathways

e Concentration

economic Pathways



Task Force on Climate-related Financial Disclosures (TCFD)



(in Japanese



https://www.sanki.co.jp/news/ release/article534.html PP. 42-43



Sustainability Management



P. 98 **Risk Management Promotion System**

- *1 International Energy Agency: An international organization that covers all aspects of energy policy under the Organization for Economic Cooperation and Development (OECD), with the goal of ensuring energy security.
- *2 Intergovernmental Panel on Climate Change: An international body established in 1988 by the World Meteorological Organization and the United Nations Environment Programme to comprehensively assess climate change and its impact, as well as adaptation and mitigation

Risks and Opportunities

					Transiti	ion Risks				
	Category		Policy a	nd Legal		Techn	iology	Reputation		
	Possible event			ces for renewable energy O2 emission regulations		Advances in energy conservation and renewable energy technologies		Increased demand for climate action and information disclosure		
	Impact on business	Increase in carbon tax burden and costs of purchasing RECs		Increase in construction costs due to rising costs of materials and equipment, and other expenses		- Technological obsolescence - Delayed technological support due to lack of technical capabilities and engineers		Concerns over a possible washout and decline in corporate brand image due to insufficient climate action and information disclosure		
	Timeline	imeline Medium- to long-term Medium- to long-term		Medium- to long-term		Short-term/ medium- to long-term				
	Import	1.5°C scenario:	Moderate	1.5°C scenario:	Major	1.5°C scenario:	Major	1.5℃ scenario:	Major	
	Impact	4°C scenario:	Minor	4°C scenario:	Moderate	4°C scenario:	Moderate	4°C scenario:	Minor	
ks	Response	Promote decarbonization measures and capital investment		Strengthen procurement capabilities through centralized purchasing, DX, etc.		 Promote development of energy conservation and renewable energy technologies Promote open innovation Secure human resources and enhance engineer training 		 Promote decarbonization measures and capital investment Proactively disclose information 		
Risks										
	Category		Ac	ute		Chronic				
	Possible event	More	frequent and se	evere natural disa	asters		Rising terr	nperatures		

		х.	•					
				Physic	al Risks			
Category		А	cute			Chr	onic	
Possible event	More fre	equent and s	severe natural dis	asters		Rising ten	nperatures	
Impact on business	- Suspensions or delays in construction - Stagnation of business operations due to infrastructure failures		 Increased risk of heat stroke and other occupational hazards More severe labor shortages due to deteriorating working conditions at construction sites 		Increased construction costs due to decreased productivity and increased costs for countermeasures			
Timeline	Sho	ort-term/me	dium- to long-teri	m	Medium- to long-term		Medium- to long-term	
Impact	1.00		Major	1.5°C scenario:	Moderate	1.5℃ scenario:	Minor	
impact	Impact 1.5°C scenario: Moderate 4°C scenario	4 C Scenario.	Major	4°C scenario:	Major	4°C scenario:	Major	
Response	- Operate BCMS for - Strengthen coope			25	 Promote occupational health and safety in cooperation with partner companies Develop technologies to prevent occupational hazards and robot replacements 		Improve productivity through DX promotion	

	Category		Mar	Resili	ence		
oortunities	Possible event	Expansion of energy of energy ma		Growing need for gre	eater cooling capacity	Expansion of climate	services market
	Impact on business	 Increased demand for energy conservation Increased demand for projects 	n projects	Increased demand for renovation work to boost cooling capacity		 Increased demand for renovation projects to cope with disasters Increased demand for construction projects and services to cope with disasters 	
	Timeline	Short-term/medi	um- to long-term	Medium- to	o long-term	Medium- to long-term	
	Impact	1.5°C scenario:	Major	1.5°C scenario:	Minor	1.5°C scenario:	Minor
Opp		4°C scenario:	Moderate	4°C scenario:	Moderate	4°C scenario:	Moderate
	Response	 Promote developme conservation and re technologies Promote open innov Strengthen the SAN Contribution Point s 	newable energy vation KI YOU Eco	- Strengthen system t customer needs - Strengthen the main		Promote LCE Busine Strengthen the tota of building ICT Expand consulting s Operate BCMS to ma BCP	integration business ervices

Indicators and Targets

The Sanki Engineering Group considers greenhouse gas emissions to be the key indicator related to climate change. We established the Sanki Carbon Neutral Declaration as a long-term goal, and we have incorporated our carbon transition plan into the medium-term management plan. Additionally, we have submitted our greenhouse gas reduction targets to the Science Based Targets initiative (SBTi), an organization that certifies science-based targets consistent with the levels set by the Paris Agreement (as of August 2024).

Greenhouse Gas Reduction Targets

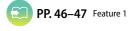
Scope	Base Year	ase Year (medium-term management plan)		FY2050
Scope 1 and 2	FY2020	40% reduction	Carbon neutrality	Carbon neutrality
Scope 3	FY2020	10% reduction	_	Carbon neutrality
Reductions through the SANKI YOU Eco Contribution Point system ^{*1}	FY2018–FY2020 (average)	30% increase	_	_

Greenhouse Gas Emissions

			Emissions	s (t-CO2)		Changes (%)		
Category		Base Year		Results*2	Compared			
		FY2020	FY2021	FY2022	FY2023	to the base year	YoY	
Scope 1 and 2	2	9,382	9,292	6,455	5,504	-41%	-15%	
Scope 1	Direct emissions from businesses owned or controlled by the Company	2,956	3,146	2,829	2,521	-15%	-11%	
Scope 2	Indirect emissions caused by use of purchased electricity or heat	6,426	6,146	3,626	2,983	-54%	-18%	
Scope 3		6,395,143	5,230,828	4,001,444	4,076,450	-36%	+2%	
Category 1	Products and services purchased	349,779	351,192	362,454	474,682			
Category 2	Capital goods	7,419	5,518	7,763	5,771			
Category 3	Fuel and energy activities not included in Scope 1 and 2	1,642	1,653	1,587	1,351			
Category 4	Upstream transportation and distribution	819	1,123	846	1,016			
Category 5	Waste generated in operations	1,506	1,771	1,891	1,884			
Category 6	Business travel	388	401	402	421			
Category 7	Employee commuting	688	1,006	1,000	968			
Category 11	Use of sold products	6,027,209	4,862,448	3,621,085	3,584,779			
Category 12	End-of-life treatment of sold products	1,500	1,394	1,565	2,115			
Category 13	Downstream leased assets	4,193	4,322	2,851	3,463			
Total		6,404,525	5,240,120	4,007,899	4,081,954	-36%	+2%	

Scope: Sanki Engineering Group

*1 Reductions through the SANKI YOU Eco-Contribution Points: Having already achieved the target of the medium-term management plan, we have begun working to reach the new target of a 10% increase over the average number of cases adopted for the past three fiscal years.



Scope: Sanki Engineering Group Notes:

- Categories 8, 9, 10, 14, and 15 are not applicable.
- Emissions for the base year (FY2020) and for FY2021 and FY2022 have been recalculated following a review of the scope of aggregation at construction sites.
- *2 We have obtained third-party assurance for the results.



Independent Third-Party Assurance Report

https://www.sanki.co.jp/en/csr/ environment/tcfd/doc/assurance_ report2023.pdf

Roadmap for Achieving Carbon Neutrality

The Sanki Engineering Group has declared its goal of achieving carbon neutrality for its Scope 1 and 2 emissions by 2030 and for its Scope 1, 2, and 3 emissions by 2050 in Sanki's Carbon Neutral Declaration. It is also endeavoring to attain its targets under the medium-term management plan, of a 40% reduction in Scope 1 and 2 emissions and a 10% reduction in Scope 3 emissions, compared to the fiscal 2020 level, respectively, by fiscal 2025, through the planning and implementation of decarbonization measures.

In Scope 1 and 2, we will promote reduction measures focused on energy conservation and renewable energy, while in Scope 3, we will further promote decarbonization measures such as providing equipment and products that produce lower emissions.

Sanki Engineering's GHG Emissions* and Roadmap for Achieving Carbon Neutrality by 2050

Own Emissions Downstream Upstream (Sanki Engineering Group Scope 1 cope 2 Others: 9. F Π Transportation and distribution. 4. Transportation 7. Employee 1. Raw 10. Processing of and distribution sold products. Combustion Electricity 11. Use of sold 12. End-of-life 13. Leased assets, Others: 2. Capital goods, 3. Fuel- and energy-related of fuels use activities not included in Scope 1 or 2, 5. Waste generated in operations, 6. Business travel, 8. Leased assets products treatment of 14. Franchises. sold products 15. Investments **Reduction Targets** 2025 2030 2050 Scope 1 Scope 2 Scope 1 Scope 2 Scope 3 Scope 2 40% reduction from 10% reduction from Net zero emissions from in-house Carbon neutrality FY2020 levels FY2020 levels activities

20	120	2025	2030	2040	2050
Scope 1 and 2 reduction measures	Convert to elec generation fac	tricity options sourced lities (including Power to electricity options so Promote decarboniza	activities and invest in decarbo I from renewable energy at in-ho Purchase Agreement (PPA) proj ourced from renewable energy a ation of construction sites urchase carbon credits	use facilities, maintain private p ects)	ward Carbon Neutrality
Scope 3 reduction measures		nt of decarbonization t			

Initiatives for Emissions Reduction (Scope 1 and 2)

We are working on reducing emissions by effectively operating facilities and conducting energy conservation activities at all our business sites, including plants, offices, and construction sites. At the Sanki Techno Center and Yamato Product Center, which we own, we have installed several energy-saving systems to reduce energy, including those that apply our proprietary technologies, while also introducing solar power generation systems in fiscal 2023. We consequently reduced our total amount of Scope 1 and 2 emissions in fiscal 2023 by 41% compared to the fiscal 2020 level. The Sanki Engineering Group also received an S Class evaluation as an excellent business operator under the Business Class Evaluation System based on Japan's Energy Conservation Act. We will continue efforts to conserve energy while also considering renewable energy sources to meet energy needs at our branches and other locations.

nergy-Saving Systems Installe at Sanki Engineering Facilities

Note: GHG emissions refers not only to emissions by the business operato

itself but also to the total volume of

all emissions related to its business activities, and are classified into Scope

3 emissions (upstream) + Scope 1

15 categories under Scope 3, "11.

Use of sold products" accounts for

Group.

approximately 90% of greenhouse gas

emissions by the Sanki Engineering

and 2 emissions (in-house) + Scope 3 emissions (downstream). Of the

 Sanki Techno Center EcoSearcher[®] real-time heat source optimization system (proprietary technology) - selFort[®] smart HVAC system for offices (proprietary technology)

 Yamato Product Center - Periloop thermal stratification HVAC system (proprietary technology) - Solar photovoltaic panels

Energy Consumption

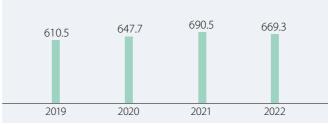
	FY2022	
Energy consumption	27,254	

Initiatives for Emissions Reduction Related to Business Activities (Scope 3)

The Sanki Engineering Group's Scope 3 emissions are predominantly Category 11, at 90%. We therefore seek to help customers reduce their CO₂ emissions through the energy-saving and energy-creating facilities and products we provide. We assist in shifting to a decarbonized society by reducing environmental impact across the entire product lifecycle, from planning and design of facilities to operational maintenance after completion and also renovation, and by providing energy-creating facilities including biomass power generation plants. To promote environmental conservation activities throughout our business operations, we are also focusing on research and development related to environmental conservation, including climate change mitigation. Through these efforts, we have achieved ahead of schedule the reduction targets of our medium-term management plan.

In fiscal 2023, we reduced our Scope 3 emissions by 36% compared to fiscal 2020. In external recognition, we were awarded the Energy Conservation Grand Prize for fiscal 2023 for activities such as the installment of energy-saving facilities at a hospital affiliated with the Gunma University Showa Campus integrated management ESCO project. We will maintain efforts to reduce CO2 emissions through our technologies and products.

R&D Expenditures Related to Environmental Preservation



Registered ZEB Planner

Sanki Engineering is a registered ZEB Planner, which seeks to promote the widespread introduction of ZEBs* introduced by Japan's Agency for Natural Resources and Energy, under the Ministry of Economy, Trade and Industry. As a ZEB Planner, we act as the contact point for customers planning to adopt ZEB in construction projects and play our part in developing a decarbonized society by supporting ZEB planning.

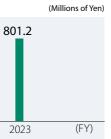
SANKI YOU Eco Contribution Point System

The Sanki Engineering Group focusses on presenting energy-saving proposals by internally operating its SANKI YOU Eco Contribution Point system. When we propose an energy-saving solution that reduces CO₂ emissions to a customer and that proposal is adopted, the amount of the achieved emissions reduction is converted to Eco Contribution Points, used to support environmental conservation activities.

Under the Medium-Term Management Plan "Century 2025" Phase 3, which began in fiscal 2022, we aim to bolster this system as a measure for reducing Scope 3 emissions. Since fiscal 2023, we have been striving to achieve the new target of a 10% increase over the average number of cases adopted for the last three fiscal years. In fiscal 2023,

(MWh)

24,383





Yamato Site solar po PPA project

Notes

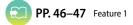
- Emissions for FY2022 have been recalculated following a review of the scope of aggregation at construction sites.
- We have obtained third-party assurance.

Independent Third-Party Assurance Report

https://www.sanki.co.jp/en/csr/ environment/tcfd/doc/assurance_ report2023.pdf

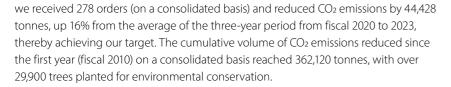


Morigasaki Water Reclamation Cente Digestion Gas Power Generation Project





*Net-Zero Energy Buildings maintain comfortable environments while reducing annual energy consumption to as close to zero as possible by enhancing energy-saving performance using solar power generation and other measures



Proposals for CO₂ Reduction and Outcomes

									(CO ₂	reduction	unit: t-CO ₂)
		FY2	019	FY2	020	FY2	2021	FY2	022	FY2	023
		Numbers	CO2 reduction	Numbers	CO ₂ reduction	Numbers	CO ₂ reduction	Numbers	CO ₂ reduction	Numbers	CO ₂ reduction
F	Proposals										
	Consolidated	405	45,685	379	68,810	431	134,399	488	131,820	385	68,393
	Non- consolidated	377	44,756	352	68,243	367	112,550	452	105,116	312	44,736
C	Orders receive	ed									
	Consolidated	181	27,624	214	28,430	263	35,848	322	50,382	278	44,428
	Non- consolidated	163	27,221	200	28,296	218	14,355	294	24,533	224	22,241

Contributing to a Zero-Waste Society

Taking on the Challenges of Achieving a Circular Economy through Business In addition to promoting waste reduction and recycling, the Sanki Engineering Group strives to contribute to achieving a zero-waste society through our business activities. Since fiscal 2023, we have participated in the Circular Partners program led by Japan's Ministry of Economy, Trade and Industry and are applying the Group's unique technological capabilities to further bolster our efforts.

In terms of sewage, we are conducting research and development on the use of sewage sludge as a recyclable resource, including the conversion of ash produced by incinerating sewage sludge into fertilizer*1 and the conversion of sewage sludge into fertilizer and feed^{*2} using insects, each of which has been adopted as a project by Japan's Ministry of Land, Infrastructure and Transport (MLIT).

Current State of Industrial Waste

With respect to industrial waste discharged at our construction sites, we seek to understand the current status by compiling data on waste discharged at sites where Sanki Engineering Group is the prime contractor.

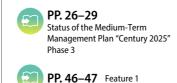
We have maintained the recycling rate for industrial waste, excluding waste disposed at final landfill sites, at 86.3% (non-consolidated) and 86.9% (consolidated) in fiscal 2023. We will continue to promote proper disposal by monitoring and analyzing the discharge of industrial waste. In fiscal 2023, our waste disposal cost was 387,186,000 yen (non-consolidated) and 420,529,000 yen (consolidated). Furthermore, we have been properly disposing waste CFC and halons, the cost of which was 21,934,000 yen (nonconsolidated) and 31,110,000 yen (consolidated) in fiscal 2023.

With the aim of ensuring the proper disposal of industrial waste, we have made digital manifests available to all departments for waste management. The rate of introduction of digital manifests was 98.9% on a non-consolidated basis and 98.1% on a consolidated basis in fiscal 2023.

We work to reduce emissions of waste plastics and promote the recycling of plastics in accordance with the Plastic Resource Circulation Act.



The logo of the SANKI YOU Eco Contribution Point system expresses our aspiration to contribute to social development and create harmony with the natural environment ECO2: We reduce CO2 emissions through our **co**ntribution to **eco**logy.





Circular Partners

- *1 Research project on low-cost technology for converting incineration ash from sewage sludge into fertilizer was selected for a feasibility study for the FY2022 Breakthrough by Dynamic Approach in Sewage High Technology Project by MLIT
- *2 Research project on the conversion of sewage sludge into feed and fertilizer using insects was selected for the FY2023 Applied Research on Sewage Project by the MLIT.



Explanation for handling CFC during HVAC inspections

Changes in the Amount of Industrial Waste Discharged

Discharge by Group companies (t) Discharge by Sanki Engineering Co., Ltd. (t) Recycling rate for Sanki Engineering Co., Ltd. (%)



Proper Disposal of Hazardous Substances

We properly dispose of hazardous substances in accordance with the laws and regulations while informing our employees about proper methods of managing these substances. We have created and distributed posters to inform them of the revisions in storage and disposal procedures for mercury-laced waste in accordance with the revision of the Waste Management and Public Cleansing Act*. Regarding asbestos, we prepared a flow chart that is being used by site staff to ensure proper disposal of asbestos at construction sites for renovation work. Also, in accordance with the Air Pollution Control Law, we will properly report the presence or absence of asbestos-containing building materials at construction sites during demolition and renovation work.

Limiting Water Use

At facilities owned by the Sanki Engineering Group, we regularly monitor water use and continuously consider ways to improve the efficient use of our water resources to reduce usage, which also includes making capital investments with due consideration for water conservation. Most of the water used is potable and for offices and training accommodations. The Sanki Techno Center and Yamato Product Center are making efforts to use less tap water by combining it with well water.

V	Vater Use			(m³)
		FY2021	FY2022	FY2023
w	ater use	42,680	47,591	33,984
	Tap water	16,155	17,387	14,679
	Well water	26,525	30,204	19,305

Realizing a Society in Harmony with Nature

Our Response to Biodiversity

Recognizing that biodiversity is foundational for a sustainable society, the Sanki Engineering Group aims to realize a society in harmonious co-existence with nature by striving to preserve biodiversity. In addition to our ongoing activities for planting and nurturing trees, we participate in the 30by30 Alliance for Biodiversity^{*1}, spearheaded by Japan's Ministry of the Environment, and support Nationally Certified Sustainably Managed Natural Sites*². In fiscal 2024, we will start supporting a new coral project to





Scope:

Industrial waste discharged at sites where Sanki Engineering is the prime contractor and at domestic Group companies Recycling rate: Sanki Engineering Co., Ltd.

*Industrial waste emissions increased in fiscal 2022 due to the impact of large construction projects that involved demolition.

*Waste Management and Public Cleansing Law



Poster: "How to handle mercury-laced industrial waste

Scope

Eight sites including the Sanki Techno Center, Sanki Yamato Building, Yamato Product Center, Nasu Techno Station, and field offices

Water use has been recalculated to include the usage of tenants in owned facilities for which we provide overall management.

- *1 Target for effectively preserving 30% of the land and sea as healthy ecosystems to prevent further losses and restore biodiversity by 2030.
- *2 Areas designated by the Japanese government for preserving biodiversity through private-sector initiatives



Tree-Planting and Nurturing Activities

Since fiscal 2010, we have been supporting tree-planting and nurturing activities as environmental conservation activities under the SANKI YOU Eco Contribution Point system. In addition, we created the Sanki Forest in Kai City, Yamanashi Prefecture, in 2015 to commemorate the 90th anniversary of our founding, and a Kansha-no-Mori in 2020 to commemorate the 10th anniversary of the SANKI YOU Eco Contribution Point system. We support reforestation projects that take full advantage of the diversity of local vegetation and tree-planting activities that lead to enriching the bounties of the sea, and also engage in environmental conservation activities that include employee participation. In fiscal 2023, a total of 143 people from the Sanki Engineering Group, including executive officers, employees, and their families, participated in tree-planting and nurturing activities organized by the groups we support.

We facilitated donations to six projects by seven organizations in fiscal 2023 to support environmental conservation projects under the SANKI YOU Eco Contribution Point system. We will continue to promote reforestation, along with activities that bring us closer to the community, through tree-planting projects in which Group employees participate, and other community collaborations.

Donation History for Tree-Planting Projects

Project	Recipient	Location
Present Tree in Kumamoto Yamato III SANKI YOU Forest Kumamoto Yamato	NPO Environmental Relations	Yamato Town, Kumamoto Prefecture
Corporate Supporter System	More trees	Shibuya Ward, Tokyo
Shiga Prefecture/Lake Biwa Afforestation Partnership Agreement: SANKI YOU Forest Biwako Konze	Konze Forestry Association Ritto Tourism Association	Ritto City, Shiga Prefecture
Wakayama Prefecture/Forest Conservation and Management Agreement: SANKI YOU Forest Nanki- Shirahama	Ohechi Forest Association	Shirahama Town, Wakayama Prefecture
Planting trees in the Hikobae Forest on Mt. Yagoshi	NPO Mori wa Umi no Koibito	Ichinoseki City, Iwate Prefecture
Planting trees in a forest surrounding Shonan Village	Silva Association, Shinwa Gakuen	Yokosuka City, Kanagawa Prefecture
Kansha-no-Mori forestation to commemorate the 10th anniversary of the SANKI YOU Eco Contribution Point system	NPO Environmental Relations	Kai City, Yamanashi Prefecture
Creation of the Sanki Forest to commemorate the 90th anniversary of our founding	NPO Environmental Relations	Kai City, Yamanashi Prefecture
Creation of the Kijimadaira Beech Forest	NPO The Life style Research Institute of Forests	Kijimadaira Village, Nagano Prefecture
Creation of the Present Tree Forest	NPO Environmental Relations	Takayama City, Gifu Prefecture, Miyako City, Iwate Prefecture, Sammu City, Chiba Prefecture



Okinawa Institute of Science and Technology (OIST) Coral Project



Participation in External Initiatives for Biodiversity



Keidanren Initiative for Biodiversity Conservation



Ministry of the Environment's 30 by 30 Alliance for Biodiversity





Major project to explore the future of the global environment

Continuing to Contribute People and Technology to the Antarctic Research Expedition

For over six decades, Sanki Engineering has been continuously involved in the Antarctic Research Expedition, Japan's national project for understanding the environmental changes in the Antarctic region and the Earth's environmental system. Sanki Engineering's connection to this project goes back to 1957, when we delivered 30 roller conveyors for the second expedition to carry materials to the newly opened Showa Base in Antarctica. We have been actively dispatching our engineers to Antarctica since 1991, when the Protocol on Environmental Protection to the Antarctic Treaty was added to the Antarctic Treaty System, and we dispatched an engineer to the wintering party of the Antarctic Research Expedition upon request from the National Institute of Polar Research.

During the expedition, our engineers are mainly responsible for the maintenance and management of the base's environmental protection facilities (wastewater and waste treatment) and mechanical equipment (HVAC and plumbing facilities). Since the 2010s, we have also been involved in upgrading the wastewater treatment facility and constructing facilities for the Basic Observation Building . Furthermore, in August 2023, we began joint research with the National Institute of Polar Research on energy use data at Showa Station using ICT, further deepening our involvement in the observation project. Through these activities, we are playing an important role in research and environmental protection in Antarctica.

Recognized as an Antarctic Observation Partner Company

In February 2024, Sanki Engineering was recognized as an Antarctic Research Partner Company of the National Institute of Polar Research for having dispatched a total of 20 employees to the Antarctic Research Expedition, from the 33rd Expedition in 1991 to the 65th Expedition in 2023.

Sanki Engineering will continue to contribute its human resources and technologies to this research project and use the experience to enhance the development of its own business.

VOICE

Important Work that Supports the Daily Life of the **Expedition Team**

Shiobara: As the environmental protection officer, I was engaged in the treatment and management of waste generated at the base and the maintenance of wastewater treatment facilities. The natural environment in Antarctica was breathtaking, and I still vividly remember the enchanting aurora. My standard work is also closely related to environmental protection, and I hope to continue taking on challenges while staying focused on the importance of my work and the weight of my responsibility.

Arai: I was responsible for the overall maintenance, management, and operation of facilities at the base. Soon after arrival, we encountered a blizzard and were placed in a tight spot when the pipes froze, and I was amazed at the competence of the 64th mechanics unit members, who had arrived before us and mobilized the entire team to complete the repairs. Through the various events I experienced during my stay, I strongly felt the importance and amazing power of teamwork

Kakiuchi: In charge of the mechanical equipment, I maintained and managed various equipment for such purposes as ensuring there is potable water and air conditioning, as well as conducting piping work at the base. I have fond memories of soaking in a handmade outdoor bath in minus 20°C weather, gazing at the star-filled sky and aurora. In an environment where resources are not readily available, I was made keenly aware of the importance of using everything with care.



Team change cerei



Launchin the first dan

Station





Transporting supplies over the ice by

Photo courtesy o the National I e of Polar Re



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