



Dynabook Environmental Report 2025

Dynabook Inc.

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1. About Dynabook Environmental Report 2025

Approach to Information Disclosure

Dynabook uses the “Dynabook Environmental Report 2025” as a tool to disclose information about our environmental initiatives.

Reporting Period

From April 2024 to March 2025

Scope of Reporting

Site of Dynabook Inc. in Japan and manufacturing site in China.

*Referenced guideline

“Environmental Reporting Guidelines 2018”-Ministry of the Environment

Schedule for Next Issue

September 2026

Contact

Environmental Promotion:

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Dynabook Inc. Corporate Information

<https://dynabook.com/global/en/index.html>

Company Profile	Company Outline	https://dynabook.com/global/en/about-us/outline.html
	Top message	https://dynabook.com/global/en/about-us/message.html
	Business Philosophy	https://dynabook.com/global/en/about-us/philosophy.html
Sustainability	Policy	https://dynabook.com/global/en/csr/csr.html
	Procurement	https://dynabook.com/global/en/csr/purchasing.html
	Quality	https://dynabook.com/global/en/csr/quality.html
	Environment	https://dynabook.com/global/en/csr/eco.html Policy, Main Initiatives, and Environmental Report https://dynabook.com/pc/env/eng/index.html Environmental Activity <ul style="list-style-type: none"> • Environmental management • Environmental efforts in the products • Environmental efforts in the factories • Green procurement
	Governance	https://dynabook.com/global/en/csr/governance.html



2. President's message

In 1985 Dynabook Inc. launched the T1100, the world's first laptop computer. This was followed by the release of the world's first^{*1} notebook PC, the DynaBook J-3100 SS001, in 1989. These two products represent the origin of the modern-day notebook computer. Dynabook has continued to develop products and services that reflect people's needs, offering enhanced functionality supported by our technological expertise and commitment to quality and outstanding products. As a member of the Sharp Group, Dynabook will continue to provide value through "evolution", "integration", and "proposals". As of January 1, 2019, we have begun a new journey under the Dynabook Inc., looking back on our past achievements and exploring our future possibilities. Dynabook not only has a new name but a new vision under the banner (dynabook as a Computing × dynabook as a Service). Our focus will be "The fusion of hardware (dynabook as a Computing) and services (dynabook as a Service)" together with "True computing that reflects real needs and that supports communities" and "New added value and services developed from the user's standpoint" as a new strategy underpinning further technological enhancement and the global development of the business. With this new commitment, Dynabook Inc. will contribute to the realization of a sustainable society by offering proposals for a comfortable society and lifestyle.

^{*1} An A4-sized notebook PC based on Dynabook research

In the midst of a mountain of issues that the international community must unite to solve, such as global warming and resource depletion, we have prioritized addressing these environmental issues as a key management focus. We are actively exploring ways to achieve net-zero greenhouse gas emissions from our operations and contribute to the realization of a resource-recycling society.

Through our business activities, we aim to contribute to the overall continuous development of society by addressing various issues including global environment concerns, respect for human rights, employee health and well-being, fair treatment of employees, fair and ethical dealings with business partners, and risk management in response to natural disasters.

We recognize that sustainability issues are not only risk reduction but also present opportunities for profit. Therefore, we are committed to addressing these issues to increase our corporate value in the medium to long term.

We look forward to and appreciate your continued support.

Kiyofumi Kakudo,
Representative Director,
President & CEO



3. Philosophy and Policies

3-1. Business Philosophy

◆ Business Philosophy

With “Sincerity and Creativity”, we offer enhanced value,
and contribute to the development of society

◆ Vision

Changing the world through computing and services

Contribute to society and the quality of life by delivering
"True computing that supports communities"
and by creating "new added value that reflects real customer needs"

◆ Values

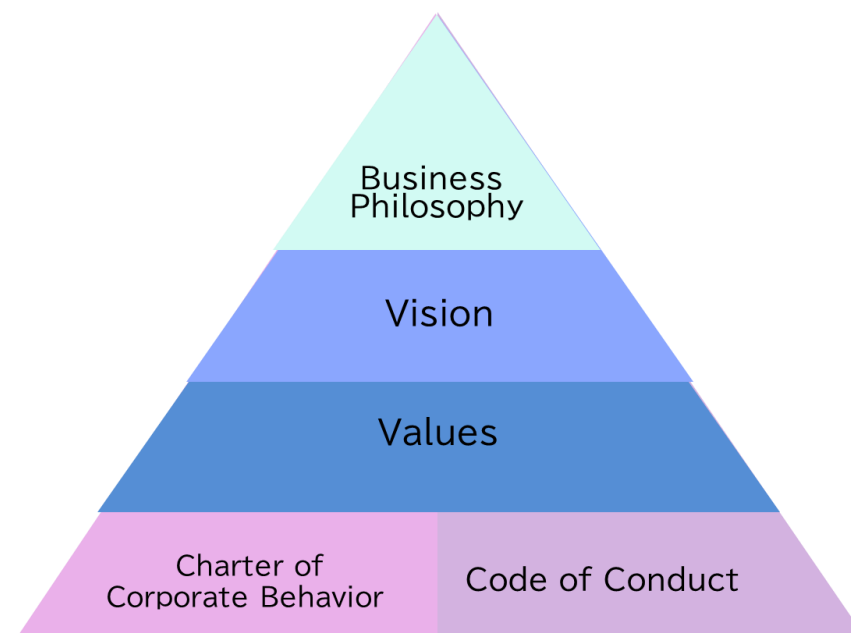
We, with all members of Dynabook, are commit to:

Explore : give shape to thoughts and ideas

Create : realize those ideas

Collaborate: listen to and work continuously working
with our customers

Transform : look ahead to the future



[Dynabook Group
Charter of Corporate Behavior](#)

[Dynabook
Code of Conduct](#)



3-2. Basic Environmental Policy

Based on our Basic Environmental Philosophy, and in line with our environmental initiatives outlined in our Charter of Corporate Behavior and Code of Conduct, we work to reduce the environmental impact of all aspects of our business activities.

Basic Environmental Philosophy

As a company that develops, designs, manufactures and sells computers, tablets and system solutions, we consider it paramount to use environmentally friendly methods as we develop our products and services and carry out our business activities, guided by the Dynabook Group's business philosophy of "With sincerity and creativity, we offer enhanced value and contribute to the development of society".

We are conscious that every company and individual must play a part in environmental conservation initiatives, and in addition to complying with all environmental laws, regulations and regional agreements, we carry out environmental activities to achieve greater value, harmony with the planet, a low-carbon society, a circular society and a society that coexists with nature, with the aim of contributing to the building of a sustainable society.

Charter of Corporate Behavior Contribution to Conservation of the Global Environment

We will make efforts to further contribute to global environmental conservation by strengthening our development of proprietary technologies for protecting the global environment, and by carrying out business activities in an environmentally conscious manner.

Code of Conduct

1. To Conserve the Environment

- (1) We will comply with all applicable environmental laws, regulations, and regional agreements, and make voluntary efforts to practice effective use and saving of resources and energy, in the recognition that global environmental conservation is an essential facet of corporate and individual pursuits.
- (2) We will work aggressively to reduce greenhouse gas emissions in all business activities, to contribute to the prevention of global warming.
- (3) To deal with environmental issues on a global scale, we will promote the sharing and practical application of energy-saving actions and environmental conservation technologies among the Dynabook Group companies in each country and work to contribute to reducing environmental load.
- (4) We recognize that maintaining an eco-system where diverse living organisms coexist brings about a rich environment in which both corporations and individuals can operate and live. To that end, we will work actively to conserve biodiversity and promote the sustainable use of biological resources.
- (5) In order to promote communication with local residents and other stakeholders, we will engage in acquiring environmental information at an international level, and providing internal reports thereof, and work to actively make disclosure to the local community and other stakeholders.

2. To Develop Environmentally Conscious Products and Services, and Conduct Our Business Operations in an Environmentally Conscious Manner



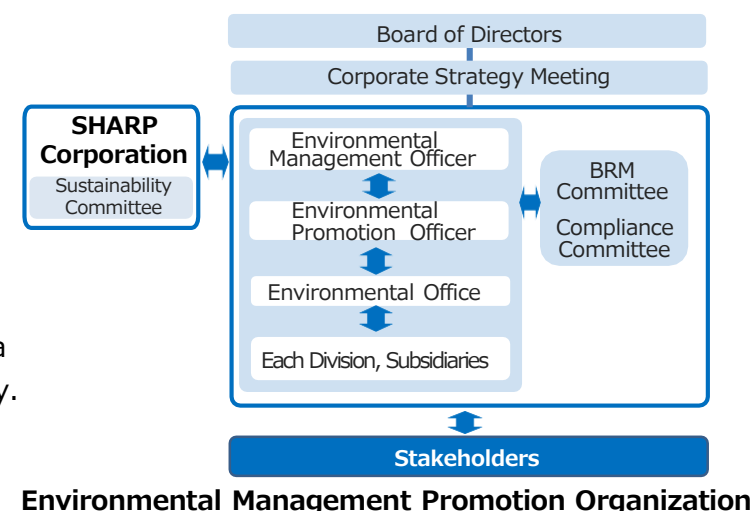
- (1) We understand the importance of internal company systems and the efforts needed to enhance measures based on the Basic Environmental Policy, and we will observe relevant internal company rules.
- (2) Toward the minimization of our consumption of natural resources such as energy, water, minerals, and the like, we will positively engage in reduction in the size and weight of products, use of recycled materials, and the development of products and services that contribute to energy-saving and long life of products.
- (3) We will work to compile information related to harmful substances that might damage the environment or human health, and will not, as a matter of principle, make use of these harmful substances in our products and services.
- (4) We will ensure proper use and control, and reduce our consumption of chemical substances in our business activities, including research, development, and manufacturing, at levels meeting or exceeding those stipulated by laws and regulations.
- (5) We will, as a matter of policy, design recycling-conscious products with structures that are detachable and decomposable and will use recyclable materials wherever possible.
- (6) As to the resources needed for business activities (equipment, raw materials, subsidiary materials, tools, etc.), to the extent possible, we will work to conduct our business in such a way as to select and purchase such resources that have the least adverse effect on the global environment, the local residents and employees.
- (7) We realize that waste material is a valuable resource, and we will actively take part in maximizing the 3Rs (reduce, reuse, recycle) and minimizing the amount of final waste disposal.

4. Environmental Governance

4-1. Promotion of Environmental Management

Dynabook Inc. addresses various environmental issues and promotes the dissemination and sharing of environmental information through an environmental management promotion system. This system consists of an environmental management officer (President) and an environmental promotion officer (General Manager of the General Affairs Department). In the event of significant risk events, important policies and decisions are reported to the Company's Corporate Strategy Committee and the Board of Directors in cooperation with the Business Risk Management Committee (BRM) and other relevant internal

committees. We will continue to strengthen our environmental management promotion system and contribute to the realization of a sustainable society.



4-2. Environmental Management System

To promote environmental management, we have established an environmental management system in accordance with ISO 14001. Through continuous improvement, we are striving to enhance our environmental performance and reduce our environmental impact.

5. Stakeholder Engagement

We appropriately disclose information to our various stakeholders, including customers, suppliers, employees, and local communities. Through various communication channels, we incorporate their perspectives into our operations and product development.





6. Sustainable Development Goals (SDGs)

Dynabook plans, develops, manufactures, sells, supports, and services personal computers and system solutions. We are pursuing the fusion of hardware (“dynabook as a Computing”) and services (“dynabook as a Service”) and strengthening the technology that supports this endeavor.

Activity Status

Since developing the world’s first laptop computer in 1985, Dynabook has leveraged its innovative technologies and expertise to plan, develop, manufacture, and sell PCs that people turn to in their everyday lives and to provide after-sales support. In recent years, we have worked actively in building the foundation for industrial and technological innovation to realize a sustainable society. Efforts include manufacturing PCs that accommodate today’s diversifying work styles and providing solutions that help resolve labor shortages and streamline work at manufacturing plants. Specifically, Dynabook is applying its proprietary “empower” technology to work towards SDGs 8 (decent work and economic growth) and 9 (industry, innovation and infrastructure) by offering mobile notebook PCs that deliver high performance.



We are also contributing to SDGs 12 (responsible consumption and production) and 13 (climate action) by, for example, achieving year-on-year reductions in greenhouse gas emissions during the manufacturing process, lowering the amount of waste from factories sent to landfills, increasing use of recycled materials, and reducing use of plastic materials.

In its solutions business, Dynabook proposes AI solutions, an area in which it has extensive experience at its own computer manufacturing plants, to bring the digital transformation (DX) to manufacturing with a focus on AI technology and edge computing devices. In addition, its life cycle management (LCM) service is contributing to SDGs 7 (affordable and clean energy) and 12 (responsible consumption and production) by, for example, proposing an economical, effective approach to computer management.

In the area of culture and education, we help with the development of, and services for, ICT-driven school education environments, thereby working toward SDG 4 (quality education).

Major SDGs Contribution Examples

● Using sustainable materials in products

1. The bottom of the dynabook P56 case is made of a resin containing 50% PCR (post-consumer recycled) material.
2. The rubber feet on the bottom of the dynabook X83/X74/X94 are made of biomass plastics containing plant-derived materials, reducing the amount of petroleum-based materials used.
3. The magnets for the components in the dynabook C6/C7 are made from 100% recycled rare earth materials.
4. The bezels of the dynabook C6/C7 are coated with water-based paint that reduces volatile organic compounds.



dynabook C6/C7

● Pursuit of EPEAT^{*2,*3} environmental certification (Japan newly added as target destination country)

Dynabook has registered 24 models with a Gold rank and 10 models with a Silver rank under the EPEAT labeling system, which indicates that electronic products are environmentally friendly. For fiscal 2024, Japan has been added as a new target destination, joining both the U.S. and Canada.

^{*2} Electronic Product Environmental Assessment Tool

^{*3} EPEAT is a trademark or registered trademark of the Global Electronics Council (GEC)



EPEAT certification mark (Gold)



7. Policy for Environmental Initiatives and Environmental Indicators

We have established targets in three crucial areas: addressing climate change, promoting resource recycling, and managing chemical substances effectively to minimize our environmental footprint.

Climate Change

The Paris Agreement, adopted in 2015 to address the global issue of climate change, calls for efforts to keep the average temperature increase to below 2°C above pre-industrial levels, with a long-term goal of limiting the increase to 1.5°C. Recognizing climate change mitigation as a critical management issue, we are studying ways to achieve net-zero greenhouse gas (GHG) emissions from our operations.

Resource Recycling

Natural resources are limited, and there is growing concern about resource depletion. Furthermore, issues such as waste, the rise in marine plastics and garbage, have become significant environmental concerns. To tackle these resource-related challenges, it is crucial to establish a recycling-based society that promotes the efficient use of resources. We are actively working to understand the environmental impact of waste and water use, and exploring methods to realize a resource-recycling society.

Chemical Substance Management

Various regulations worldwide govern the use, management, reporting, and disclosure of chemical substances that can impact human health and the environment. Our products utilize various chemical substances in their components and materials, and we ensure compliance with these regulations. In addition to complying with regulations, we strive to reduce our environmental footprint by identifying and reducing substances of concern that may have an impact on human health and the Earth's environment.

● Key Environmental Assessment Indicators

Indicators		Unit	FY2024			FY2025
			Target	Result	Assessment	Target
Climate Change	Total GHG emission at sites (Scope1,2) ^{*4}	t-CO _{2eq}	7,745	6,208	Achieved	5,190
	Total GHG emissions from product transportation ^{*5}	t-CO _{2eq}	9,200	8,265	Achieved	
	Per-unit GHG emissions from product transportation ^{*6}	t-CO _{2eq} /kpcs				6.52
Resource Recycling	Total amount of waste generated	t	1,937	1,959	Not-Achieved ^{*7}	1,900
	Water receiving	m ³	57,004	61,428	Not-Achieved ^{*7}	59,000
Chemical Substance Management	Chemical substance emissions	kg	120	92	Achieved	100

^{*4} Does not include GHG emissions from the use of company cars. GHG emissions from the use of company cars are managed in p.11 "8-1. Greenhouse gas emissions".

^{*5} Destinations for GHG calculations from product logistics are the U.S., Canada, Japan, Australia, and New Zealand.

^{*6} The indicator for greenhouse gas emissions from product transportation will be changed to per-unit emissions from FY2025.

^{*7} The reasons for not achieving the targets for each item are explained in p.19 "9-1. Waste", and p.20 "9-2. Water use".



8. Climate Change

The Paris Agreement, adopted in 2015 to address the global issue of climate change, calls for efforts to keep the average temperature increase to below 2°C above pre-industrial levels, with a long-term goal of limiting the increase to 1.5°C. Recognizing climate change mitigation as a critical management issue, we have created a reduction plan in section 8-3.

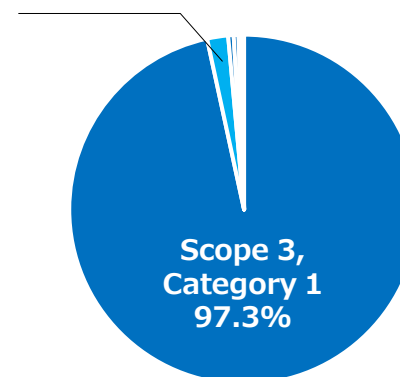
8-1. Greenhouse Gas (GHG) Emissions

Since FY2020, we have been monitoring our Scope 1-3 GHG emissions in accordance with the GHG Protocol^{*8} and striving to comprehend and manage our emissions. Emissions data for FY2020 through FY2024 are shown on the next page. (GHG emissions for FY2024 is undergoing third-party verification.)

For FY2024, our greenhouse gas emissions from our business activities (Scope 1 + 2) are 6,215 t-CO_{2eq}, our Scope 3 greenhouse gas emissions are 1,367,520 t-CO_{2eq}, and our total greenhouse gas emissions are 1,373,736 t-CO_{2eq}. Of these, emissions from activities leading up to the manufacturing of purchased parts and materials (Scope 3, Category 1) account for approximately 97.3% of the total, and we will be closely examining Category 1 going forward. In order to reduce our greenhouse gas emissions, we believe it is necessary to address not only greenhouse gas emissions from our own business activities but also to reduce the environmental impact of our products throughout their entire life cycle. Therefore, we are working to reduce the environmental impact of our products throughout their entire life cycle.

^{*8} The GHG Protocol is an international standard established by WRI (World Resources Institute) and WBCSD (World Business Council for Sustainable Development) to calculate an organization's GHG emissions across its entire supply chain

Scope 3,
Category 11
2.0%



Category	Note
Scope 3, Category 1	Purchased goods and services
Scope 3, Category 11	Use of sold products

GHG emissions by Scope/Category



Category			Emissions (t-CO _{2eq})					Notes
			FY2020	FY2021	FY2022	FY2023	FY2024	
Scope 1 (Direct GHG emissions)			151	147	141	140	148	Direct emissions from the use of fuel and other resources at the facility (including company vehicles)
Scope 2 (Indirect GHG emissions)			9,570	9,076	8,072	7,143	6,067	Emissions from generating electricity and other energy used at the facility
Scope 1 + 2 total			9,721	9,223	8,213	7,283	6,215	
Scope 3 (Indirect GHG emissions beyond scope of business activities)	Category1	Purchased goods and services	665,952	770,621	704,278	820,733	1,336,897	Emissions from the manufacture of materials procured for the main products* ⁹ that are sold in the reporting year
	Category2	Capital goods	31,444	23,992	28,124	20,261	787	Emissions from the construction, manufacture, and transportation
	Category3	Fuel-and energy-related activities (not included in Scope 1 or 2)	1,242	1,192	1,088	1,105	1,057	Emissions from fuel procurement (including natural resource extraction, manufacturing, and transportation) for generating electricity and heat obtained from other firms.
	Category4	Upstream transportation and distribution	14,489	17,728	9,131	6,916	8,265	Emissions generated by transporting parts, materials, and manufactured main products* ⁹
	Category5	Waste generated in operations	-	-	-	-	-	Not applicable
	Category6	Business travel	664	632	803	922	1,192	Emissions from business travel by all employees
	Category7	Employee commuting	482	558	568	550	456	Emissions from commuting by all employees
	Category8	Upstream leased assets	1,564	1,447	1,488	1,514	1,452	Emissions linked to leased asset operation (e.g. offices, warehouses, etc.)
	Category9	Downstream transportation and distribution	-	-	-	-	-	Not applicable
	Category10	Processing of sold products	-	-	-	-	-	Not applicable
	Category11	Use of sold products	168,860	121,770	90,274	94,549	26,870	Emissions from the use of the main products* ⁹ sold in the reporting year
	Category12	End-of-life treatment of sold products	950	685	508	532	-9,456	Emissions from recycling main products* ⁹ sold in the reporting year
	Category13	Downstream leased assets	-	-	-	-	-	Not applicable
	Category14	Franchises	-	-	-	-	-	Not applicable
	Category15	Investments	-	-	-	-	-	Not applicable
Scope 3 total			885,647	938,625	828,192	947,082	1,367,520	
Scope 1 + 2 + 3 total			895,368	947,848	844,475	954,365	1,373,736	

*⁹ notebook PC, desktop PC, tablet



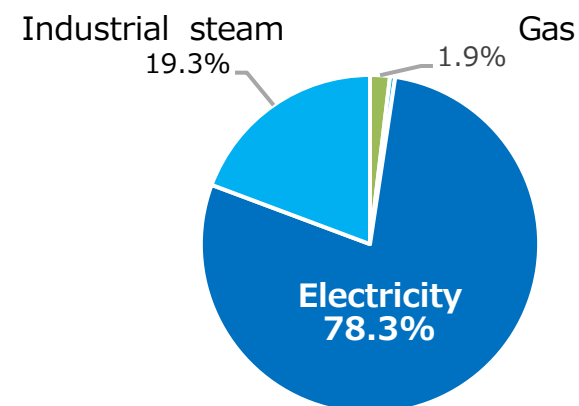
● Reduction of GHG emissions at sites

In response to climate change, we are actively identifying and reducing GHG emissions from our operations. Scope 1 and 2 GHG emissions at our sites from 2020 onwards are shown in the table below.

	FY2020	FY2021	FY2022	FY2023	FY2024
Scope1	151	147	141	140	148
Scope2	9,570	9,076	8,072	7,143	6,067
Total	9,721	9,223	8,213	7,283	6,215

Scope 1 and 2 GHG emissions from our business activities
(unit: t-CO_{2eq})

As shown in the chart right, which illustrates Scope 1+2 GHG emissions from our operations by energy source, electricity represents almost 80% of these emissions. At our manufacturing site in China, which accounts for the majority of emissions, we have installed solar power generation equipment on the roof and in the parking lot, covering an area of approximately 30,000 m², and it has been in operation since November 2023. In January 2025, we expanded the capacity to approximately 3.6 MW, and in addition to using the electricity we generate ourselves, we also supply surplus electricity to the power grid, making use of renewable energy on a large scale.



GHG percentage by energy source



In addition, our manufacturing site in China, Dynabook Technology (Hangzhou) Inc., has obtained ISO 50001 certification for its energy management system, aiming to enhance energy performance.



ISO50001 Energy Management System Certificate

- Identify GHG emissions from product transportation

To understand the environmental impact of product transportation, we calculate and undergo third-party verification of GHG emissions from product transportation using the Global Logistics Emissions Council (GLEC) Framework, which provides a standardized approach for calculating and reporting logistics emissions. To grasp emissions worldwide, we have begun compiling data on greenhouse gas emissions from transport to Japan in FY2022 and to Australia and New Zealand in FY2023. We are currently working on third-party verification for FY2024.

		FY2020	FY2021	FY2022	FY2023	FY2024
Emissions(t-CO ₂ eq) ^{*10}	To U.S.	7,180	6,522	1,434	2,772	3,400
	To Canada	1,499	639	657	861	463
	To Europe	6,025	6,183	3,124		
	To Japan			1,929	3,074	4,215
	To Australia and New Zealand				210	187
	Total	14,704	13,344	7,144	6,916	8,265

Indicators	Target ^{*11} (kg-CO ₂ eq/t-km)		0.61	0.61	0.60	
	Actual (kg-CO ₂ eq/t-km)	0.62	0.58	0.61	0.75	
	Target ^{*11} (t-CO ₂ eq)					9,200
	Actual (t-CO ₂ eq)					8,265
	Achieved Rate (%) Target/Actual		106.4	100.2	80.0	111.3

^{*10} Scope: Japan from FY2022, Australia and New Zealand from FY2023, Europe to FY2022

^{*11} Environmental indicator targets have been set for emissions intensity from FY2021 and total emissions from FY2024.



● Product Life Cycle Assessment (LCA)

To efficiently reduce the environmental impact of our products throughout their life cycles and develop environmentally conscious products, we have implemented life cycle assessment (LCA) and product carbon footprint (PCF)^{*12} methodologies to visualize the environmental impact.

We conduct LCA assessments on representative products every three years and PCF assessments on major products annually. The findings of these assessments are disclosed on our environmental website.

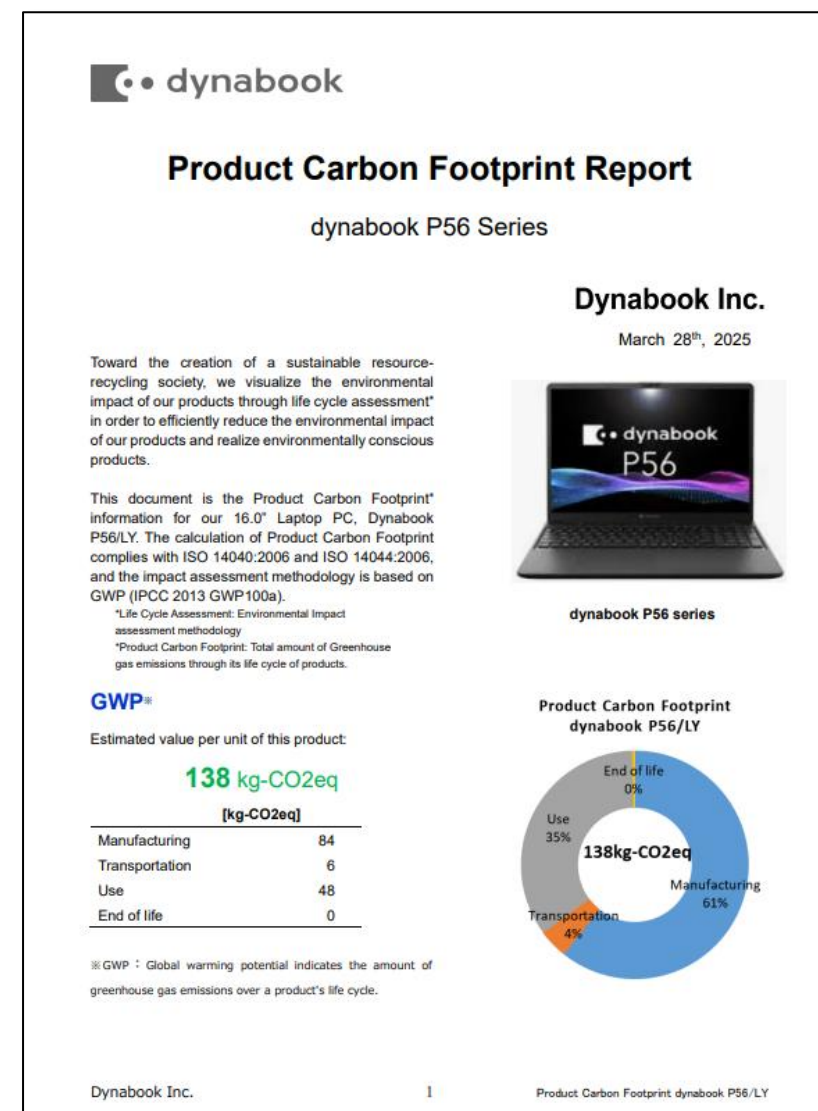
LCA Portege X30L-K

PCF dynabook P56
Portege X30W-M
Portege X30L-M
Portege X40L-M
Tecra A40-M
Tecra A60-M
Portege X40-M

Link to LCA/PCF report website

https://dynabook.com/pc/env/eng/products/pc/product_environmental_reports.html

^{*12} LCA/PCF is a method to quantitatively calculate the environmental impact of a product throughout its entire life cycle, from the procurement of raw materials to disposal and recycling.



PCF report of dynabook P56 (excerpt)



8-2. Effective use of energy

● Examples in Products

By reducing the average power consumption of our flagship 13"/14" mobile notebook PCs, we are promoting energy-saving products and curbing greenhouse gas emissions associated with product use. For FY 2024, we set a target of reducing the average power consumption of 13"/14" mobile notebook PCs by more than 3% (average of 18.8kWh in FY2023), and our actual result for FY2024 was an average of 17.0kWh, a reduction of 9.6%, achieving our target.



Example of a 13"/14" notebook PC:
dynabook G83

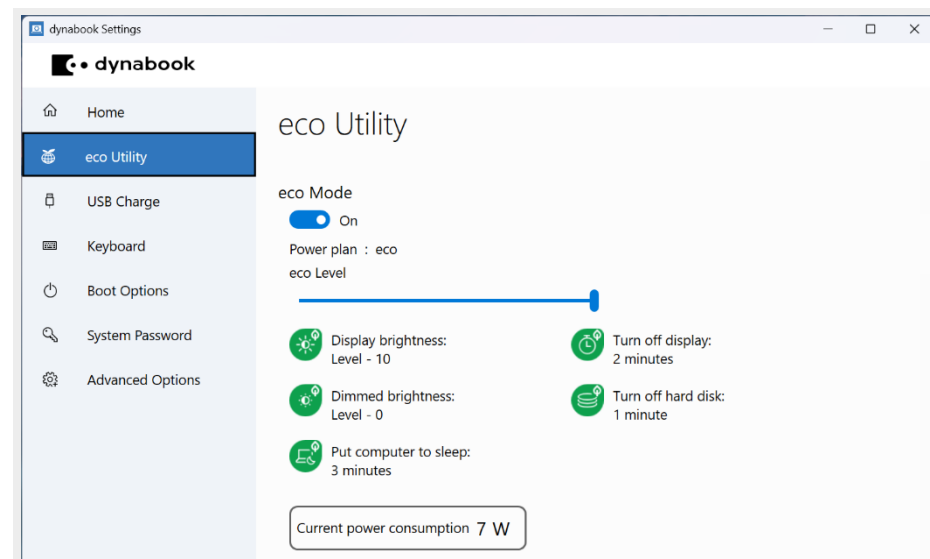
● Software power saving support

The "eco Utility" software provides comprehensive support for PC power conservation and other features.

eco Mode: Easily set the power-saving mode with the eco Mode.

Battery Charging Mode: Select from Auto, 80%, or 70% charging modes to minimize battery degradation caused by full charging.

Peak Shifting: Operates on battery power during the day when power demand is high and charges at night when demand is low, averaging out power consumption.



eco Utility Window: eco Mode

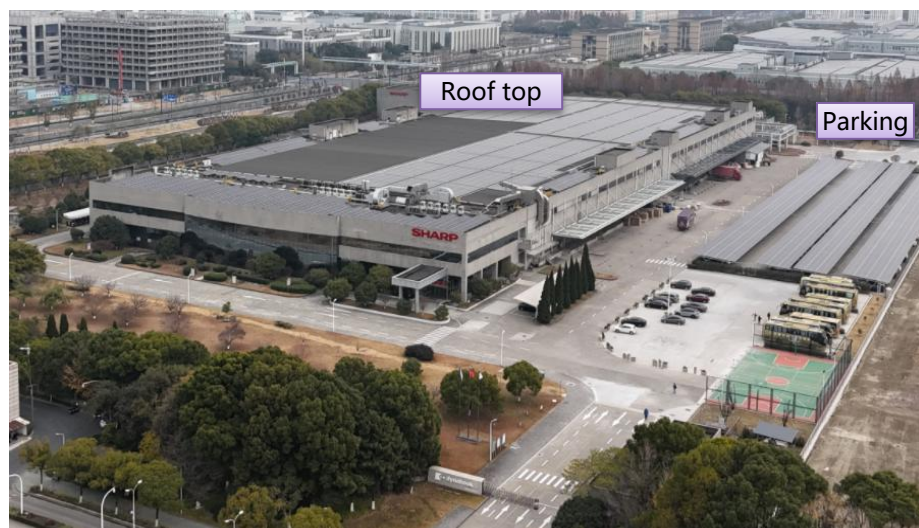


● Example at our Site

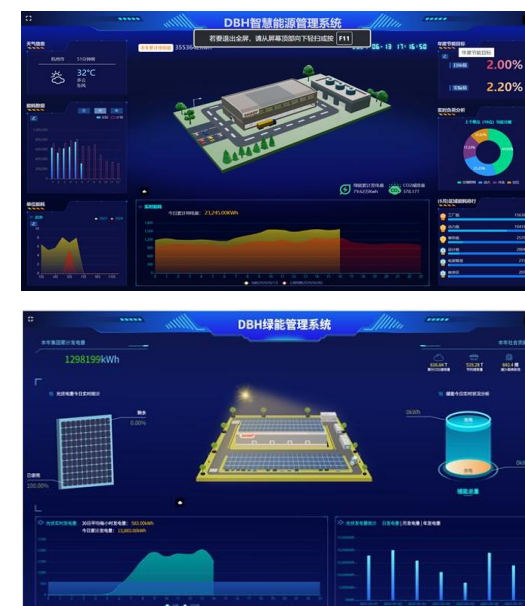
To help prevent global warming and fulfill our responsibility to curb greenhouse gas emissions and reduce carbon emissions, we have cooperated with an investment company in installing solar power generation facilities (polycrystalline silicon solar panels, string inverters, etc.) on the roof of Dynabook Technology (Hangzhou) Inc.'s factory and parking lot, covering approximately 30,000 m². The first phase of this project has been completed in November 2023, and the second phase in January 2025, with a total installed capacity of approximately 3.6 MW. The facility consumes the electricity it generates itself, with any surplus electricity supplied via a power grid. We have also developed a smart energy management system in-house, which enables visualization and real-time monitoring of energy consumption. We are also rolling out this system to other local companies, contributing to smart energy management.

For other initiatives at our manufacturing site in China, please refer to the CSR Report below.

https://dynabook.com/pc/env/eng/management/csr_reports.html



Solar power generation equipment

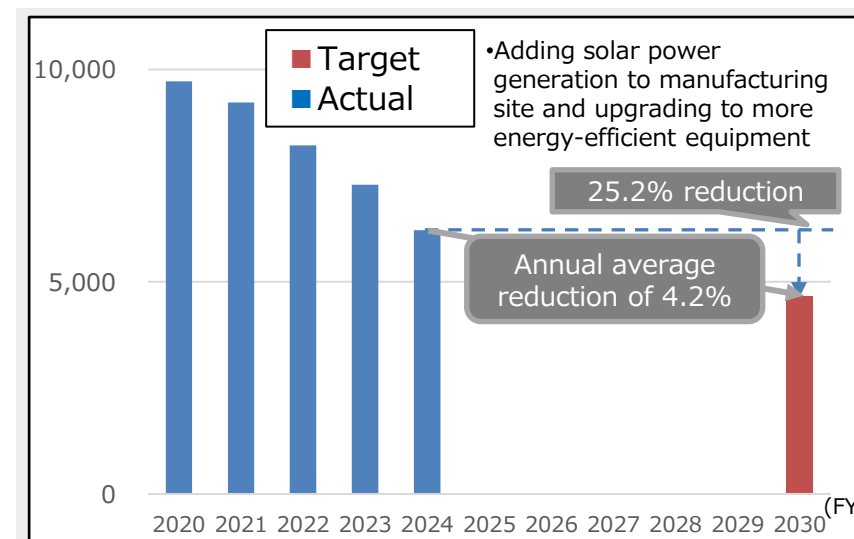


Smart Energy Management System

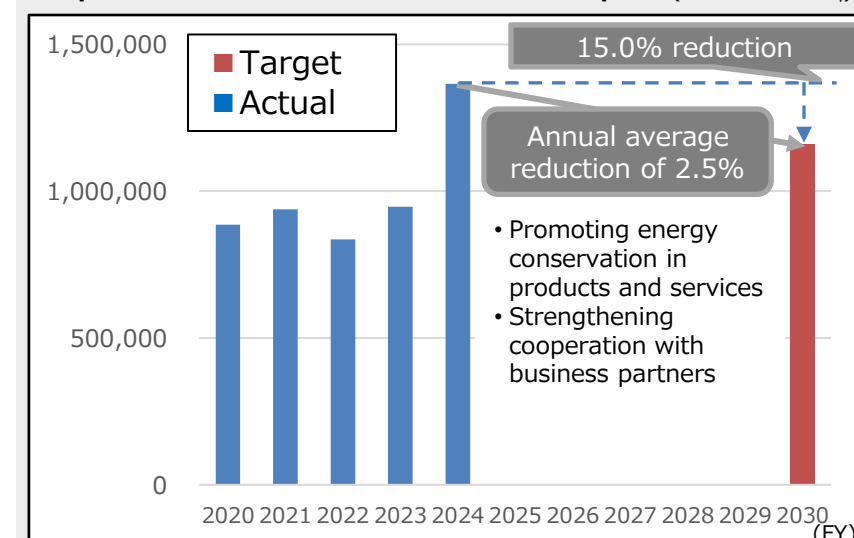
8-3. Responding to climate change

As climate change risks, such as global warming, increased extreme weather, and ecosystem impacts, become more apparent and severe worldwide, society increasingly demands that companies take action to transition to a decarbonized society. Based on the Science Based Target Initiative (SBTi), we have established a plan to reduce GHG emissions from our own activities (Scope 1 and 2) by 25.2% (annual average of 4.2%) by 2030, using FY2024 as the base year, and to reduce indirect GHG emissions (Scope 3) generated in our supply chain by 15.0% (annual average of 2.5%) by 2030. Since this is the first year, there is no progress to report. We will report on our progress toward the goal starting next year.

To reduce Scope 1 and 2 emissions, we are expanding the use of renewable energy, including installing solar power generation systems at our manufacturing site, and upgrading to more energy-efficient equipment. Regarding indirect GHG emissions (Scope 3) resulting from purchased products and services, we are promoting energy-saving products and services and strengthening collaboration with our suppliers to reduce GHG emissions associated with the manufacture of purchased parts and materials.



Scope 1 and 2 GHG emissions reduction plan (unit: t-CO_{2eq})



Scope 3 GHG emissions reduction plan (unit: t-CO_{2eq})

9. Resource Recycling

Natural resources are limited, and there is growing concern about resource depletion. Simultaneously, issues related to waste, such as the rise in marine plastics and garbage, are recognized as significant environmental issues. To address these resource-related problems, it is crucial to establish a resource-recycling society that includes the efficient use of resources.

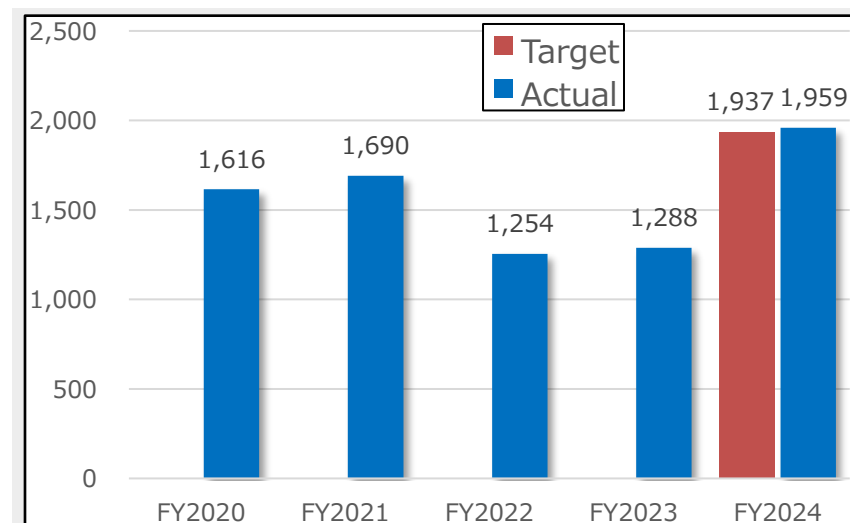
To realize a resource-recycling society, our company is actively striving to reduce waste emissions, assess environmental impacts with regard to water resource efficiency, and promote the use of recycled materials.

9-1. Waste

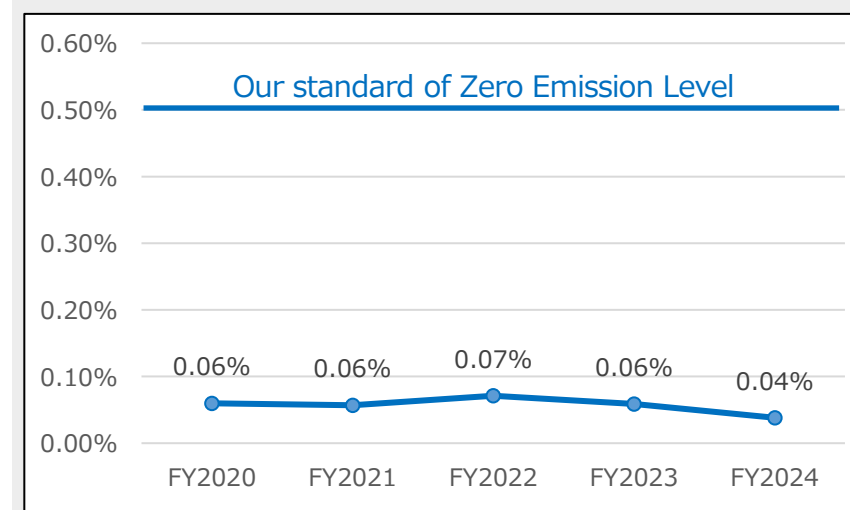
We manage two indicators: the total amount of waste generated at our major sites^{*13} and the final disposal rate at our manufacturing site. Waste tends to depend on the number of units manufactured, and for FY2024, we had set a target of 1,937 tons, a 150% increase from the planned 156% increase in production compared to the previous year. However, due to the impact of a further 108% increase in production compared to the initial plan, we fell short of the target, achieving 1,959 tons (101% of the target).

With regard to the final waste disposal rate, we define a rate of less than 0.5% as zero emissions, and our actual final disposal rate for FY2024 was 0.04%, well below the standard. In addition, with the start of a new waste sorting system in FY2024, we increased the use of valuable materials, and as a result, we were able to further reduce our final disposal rate compared to the previous year.

^{*13} The major sites are the head office and the Chinese site: Dynabook Technology (Hangzhou) Inc. Also included are the Tachikawa business office from 2020 to 2022 and the Chiba support center from 2021 to 2024.



Trends in total waste generation at major sites^{*13} (unit: t)

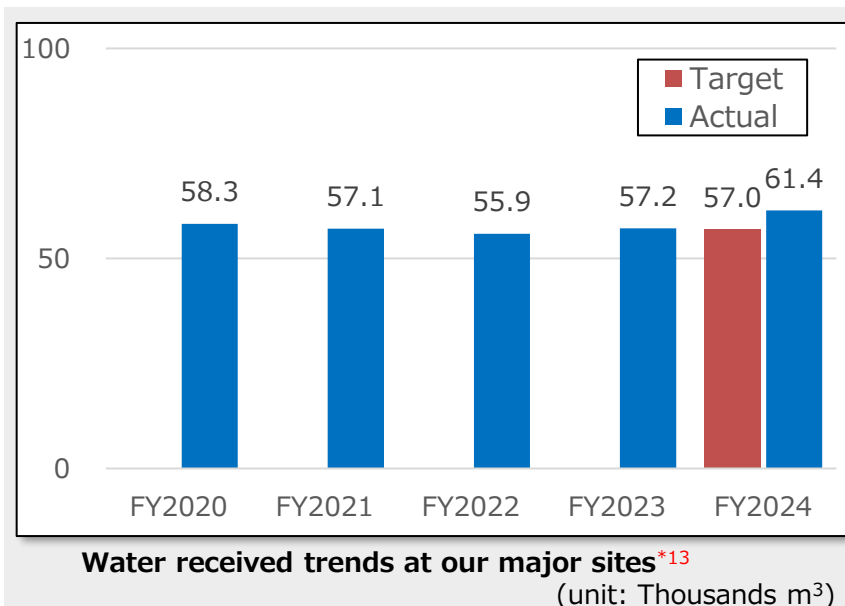


Trends in final waste disposal rate at manufacturing site



9-2. Water use

Water resource problems are arising on a worldwide scale with the increase in the world's population, the economic growth of developing countries, climate change, and other factors. We have been studying the efficient use of water resources by monitoring their consumption at our major sites^{*13}. The graph below shows the actual amount of water received. At our manufacturing site in China, water is used for air conditioning and daily life. In FY2024, an increase in personnel (121% compared to the previous year) due to increased production led to an increase in water usage in cafeterias and toilets. In addition, water usage for construction work on the entrance to the manufacturing site meant that we fell short of our 108% target.



9-3. Products recycling

We promote the recycling of used products in accordance with the laws of each respective destination country. In addition to waste reduction through product recycling, we strive to conserve limited resources and reduce environmental impact by using recycled materials produced through product recycling. To encourage product recycling, we prioritize designs that facilitate recycling in product design. This includes reducing the number of parts, selecting easily recyclable materials, clearly indicating resin materials, and incorporating recycled materials.

Information on product recycling initiatives at each destination is available on the website below.

Japan: <https://dynabook.com/pc/env/products/recycle.html>

U.S.: https://support.dynabook.com/support/navShell?cf=su_epeat

Canada: <https://ca.dynabook.com/DBC/company/environmental-commitment>

Australia: <https://serviceportal.anz.dynabook.com/epeat>

9-4. Utilize Sustainable Materials

To make effective use of resources, we actively use sustainable materials in our products and packaging. The casings of our PCs and AC adapters are made from PCR (Post-Consumer Recycled) resin, which is collected from the market and reprocessed. We also use recycled metals, recycled magnets, recycled paper, plant-based biomass plastics, and adhesives. We also use water-based paints and adhesives that reduce volatile organic compound (VOC) emissions, further reducing environmental risks.



● Examples of sustainable materials used in product applications

Note: Recycled content is expressed as a percentage by weight

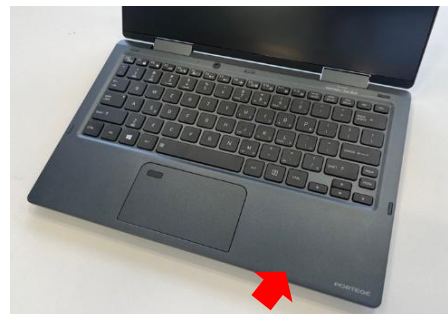
■ Plastic case

50% recycled resin



■ Magnesium case

70% recycled metal



■ AC adapter case

30% recycled resin



■ Warning Label

25% recycled material derived from PET bottles collected from the market.



■ Water-based paint

Reducing emissions of volatile organic compounds (VOCs) during manufacturing



■ Magnet for detecting LCD open/close

100% recycled rare earths



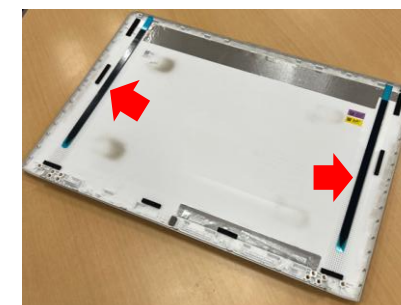
■ Rubber feet

Biomass plastic containing 38% plant-derived materials



■ LCD fixing tape

Adhesive containing 46% plant-derived materials





● Examples of sustainable materials used in non-product applications

Note: Recycled content is expressed as a percentage by weight

■ Packaging material

We use recycled materials for cardboard boxes, cushioning materials, and plastic bags. In addition, some of our cardboard boxes are FSC-certified, which contributes to the conservation of forest resources.

PE bag
(Contains 35% recycled material)



Cushioning material
(Contains 50% recycled material)

■ Cushioning material

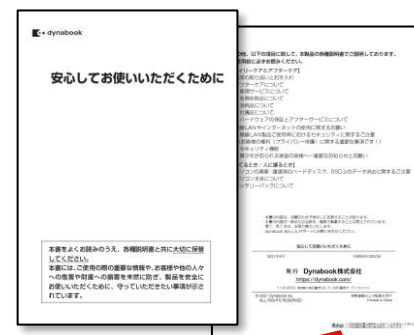
The main raw material for cushioning is foam plastic, but we have begun switching to recycled cardboard for certain regions.



Cardboard
(Contains 90-100% recycled material)

■ Instruction manual

The instruction manual is printed on recycled paper and uses plant-based ink (soy ink) to reduce volatile organic compounds (VOCs).



この取扱説明書は植物性大豆油インキを使用しております。
この取扱説明書は再生紙を使用しております。



本書は植物性大豆油インキを使用しております。
本書は再生紙を使用しております。

■ Promotional POP labels

The promotional POP labels used on display items at dealerships are made from low-density materials that reduce the amount of plastic used, and water-based adhesives are used to reduce volatile organic compounds (VOCs).

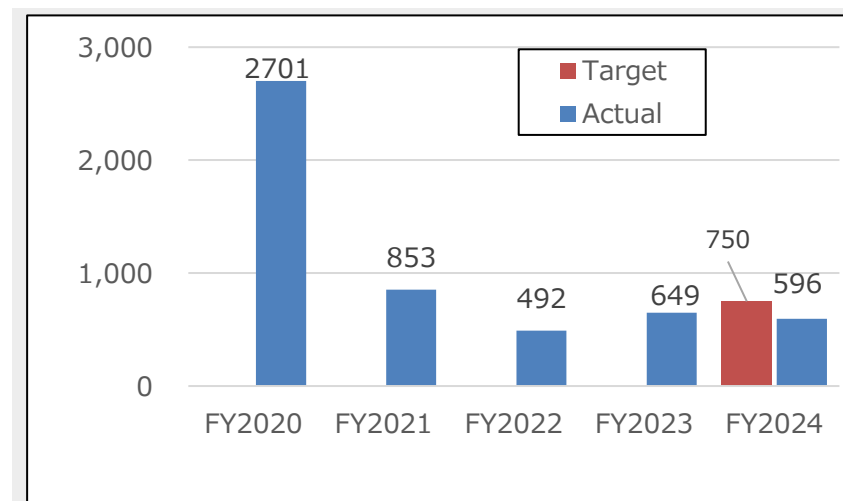


10. Management of chemical substances

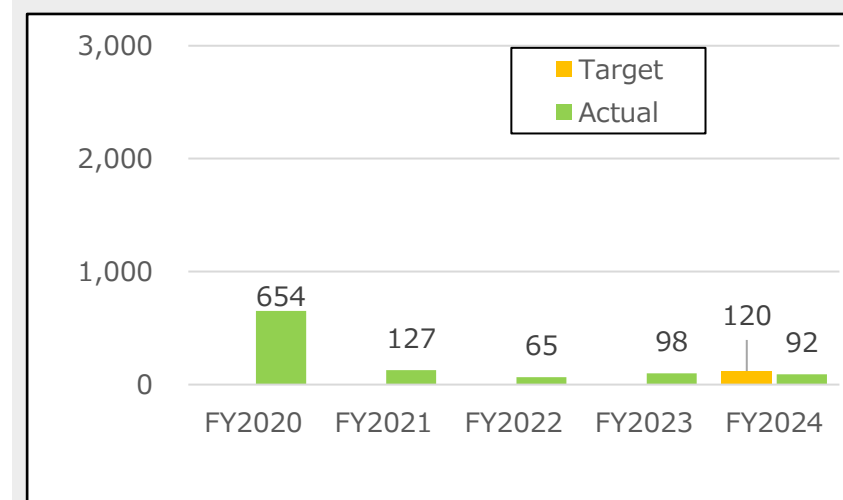
Chemical substances that may affect the human body and the global environment are subject to various regulations around the world, including restrictions on use, management of content information, and reporting and disclosure of content status. To properly manage these substances, we strive to reduce our environmental impact through management in compliance with laws and regulations and by identifying and reducing substances that may have an impact on the human body and the global environment.

10-1. Chemical substance management at manufacturing site

We are working to identify and reduce the amount of chemical substances used at our manufacturing site. The graphs right show the trends in the amount of chemical substances handled and emitted at our manufacturing site. We use chemical emissions as an environmental indicator, and we achieved the target of 120kg with 92kg in FY2024. In addition, the actual handling volume was 596kg, compared to the target of 750kg. In FY2021, we reduced the amount handled by replacing cleaning alcohol with water-based cleaning agents. We will continue to reduce the amount of chemical substances handled.



Amount of chemical substances handled at manufacturing site (unit: kg)



Chemical substance emissions at manufacturing site (unit: kg)

10-2. Management of chemical substance contained in products

To reduce the environmental impact of our products and comply with chemical substance regulations in each country, we have defined and publicly disclosed our "Guidelines for Green Procurement" and "Standard Manual for Management of Chemical Substances Contained in Parts and Materials", which specify and disclose the substances we manage and the practices we use in our products, including banned substances and substances that should be reduced or substituted. These documents are based on a precautionary principle, taking into account not only existing laws and regulations and voluntary industry standards, but also the possibility of future regulations. After reviewing the documents, we require suppliers who supply us with parts and materials to submit a declaration stating their compliance. When purchasing parts and materials, we require our suppliers to submit a "Use/Non-use Declaration" at the time of adoption, which we then use to determine whether or not to use them. We also regularly conduct "Green Audits" of our suppliers to ensure appropriate chemical substance management. In addition, we are promoting the reduction of environmental impact by identifying information on chemical substances contained in our products through various activities, such as conducting our own random analysis of the 10 substances^{*14} subject to the EU-RoHS Directive, surveying the presence of Substances of Very High Concern^{*15} under the EU-REACH Regulation, and surveying the presence of chemical substances in parts and materials (inventory surveys).

"Guidelines for Green Procurement", and "Standard Manual for Management of Chemical Substances Contained in Parts and Materials"

<https://dynabook.com/pc/env/eng/green/index.html>

^{*14} 10 substances subject to the EU RoHS Directive: lead, mercury, cadmium, hexavalent chromium, PBB, PBDE, DEHP, BBP, DBP, DIBP

^{*15} SVHC: Substances of Very High Concern, under the EU REACH Regulation: substances of concern due to their impact on the human body and the global environment.

11. Biodiversity conservation

We are actively engaged in promoting biodiversity conservation initiatives at our manufacturing site with high environment impact.

Biodiversity Conservation Activities at Manufacturing Site in China

[Bird conservation]

The Hangzhou Eastern Wetland Park serves as a habitat for wetlands and unique aquatic life, playing a crucial role as a stopover for migratory birds from East Asia to Australia. Our manufacturing site in China is located a mere 3.8 km from the Eastern Hangzhou Wetland Park, we are actively developing it to serve as a green corridor for migratory birds.

[Eradication of invasive species and protect biodiversity]

To reduce the damage caused by invasive species, we eradicate goldenrod every year in the wetlands along the Qiantang River, and as part of biodiversity conservation activities, the participants participated in biodiversity activities at Qiantang Bay Wetland Park, deepening our understanding of the wetland ecosystem, plant and animal species, and the importance of biodiversity conservation.



Eradication of invasive species



Participating in biodiversity activities



12. Environmental Label

12-1. EPEAT

EPEAT^{*2,*3} stands for Electronic Product Environmental Assessment Tool. It is a comprehensive labeling system operated by the Global Electronics Council in the United States, which evaluates electronic products based on their environmental considerations. EPEAT provides a third-party verification process that covers a wide range of evaluation criteria, including "product design," "recycling system," and "corporate social responsibility." The certification is registered in three levels: Bronze, Silver, and Gold, based on the level of compliance with optional criteria. We actively strive to obtain EPEAT certification.

<https://epeat.net/>

Section No.	Criterion
4.1	Substance Management
4.2	Materials Selection
4.3	Design for end of life
4.4	Product longevity/life-cycle extension
4.5	Energy conservation
4.6	End-of-life management
4.7	Packaging
4.8	Life cycle assessment and carbon footprint
4.9	Corporate environmental performance
4.10	Corporate social responsibility

● dynabook products listed on EPEAT (Silver and above)

Gold



dynabook G8	PORTEGE X40L-M
dynabook X74	PORTEGE X40-M
dynabook X8	Portege Z40L-N
dynabook X94	SATELLITE PRO R40-K
PORTEGE X30L-K	SATELLITE PRO R50-K
PORTEGE X30L-M	TECRA A40-K
PORTEGE X30W-K	TECRA A40-M
PORTEGE X30W-M	TECRA A50-K
PORTEGE X40-K	TECRA A60-M
PORTEGE X40L-K	

Silver



dynabook E11-A	SATELLITE C40-K
dynabook E11W-A	SATELLITE C50-K
dynabook E40-K	SATELLITE PRO C30-K
PORTEGE X40L-K	SATELLITE PRO C40-K
SATELLITE C30-K	SATELLITE PRO C50-K

12-2. EPD

EPD^{*16} certification is a system that evaluates the environmental performance of a product and quantitatively discloses the environmental impact throughout its entire life cycle. We have been working to obtain EPD certification since 2024, striving to quantitatively understand the wide-ranging environmental impact of each product. EPD evaluates the environmental impact of products based on the international standard ISO14025, using the LCA (Life Cycle Assessment) method and rules established for each product type (PCR: Product Category Rules). In addition, to ensure reliability, third-party verification is conducted, and certified products from our company are published on the website of the verification organization listed below.

<https://spot.ul.com/main-app/products/catalog/>

● EPD registered model

Portege X30L-M
Portege X40L-M
Portege X30L-K
Tecra A40-M



EPD Certification Mark^{*17}

Dynabook has achieved an Environmental Product Declaration (EPD) certification from UL.

^{*16} EPD : Environmental Product Declaration

^{*17} The name UL, the UL logo, and the UL certification mark are trademarks or registered trademarks of UL LLC



13. Company Outline

13-1. Company Outline

Trade Name	Dynabook Inc.
Head Office	NBF Toyosu Garden Front Bldg. Toyosu 5-6-15, Koto-ku, Tokyo
Representatives	Kiyofumi Kakudo, Representative Director, President & CEO
Business Description	The development, manufacture, sales, support and servicing of personal computers and system solutions products in Japan and overseas
Established	September 9, 1954
Capital	8.55 billion yen
Annual sales	254 billion yen (as at FY2024, consolidated base)
Number of employees	2,036 (as at April 1, 2025, consolidated base)



13-2. Third-Party Verification

To ensure the accuracy of our GHG emissions, we undergo third-party verification by THRIVE ESG.

Limited Assurance Verification Statement

This limited assurance verification was prepared for Dynabook on behalf of UL Japan Inc.

Company Name: Dynabook
Company Address: Toyosu 5-6-15, Koto-ku Tokyo, Japan (NBF Toyosu Garden Front Bldg. 8F)
This verification was performed in accordance with the specification and guidance of ISO 14064-3.

Introduction

The verification of Dynabook's corporate greenhouse gas (GHG) emissions was carried out by Thrive ESG, on behalf of UL Japan Inc., for Dynabook who holds corporate responsibility for Dynabook's GHG inventory and reporting and is responsible for the preparation and fair presentation of the GHG statement in accordance with the criteria. Thrive ESG is responsible for expressing an opinion on the GHG statement based on the verification.

Verification Scope and Objectives

The limited assurance verification was carried out on Dynabook's declared GHG inventory for the period April 2023 through March 2024. Activities within Dynabook's organizational boundaries is limited to facilities responsible for the design and manufacture of laptop computers and scope 3 activities related to the production of laptop computers to align with the requirements of the IEEE 1680.1 EPEAT standard. This includes two locations in Japan and one location in China where Dynabook has the management authority to introduce and implement directives and policies, including:

- Head office – Toyosu 5-6-15, Koto-ku Tokyo, Japan (NBF Toyosu Garden Front Bldg. 8F)
- Kemigawa office – 261-0011 Chiba, Mihama Ward, Masago, Japan
- Hangzhou – 2nd Floor, Building 2, No. 3 East Gate, Hangzhou, Zhejiang, China

The GHG inventory included scope 1 stationary sources (LNG, city gas, and petrol/gasoline), scope 2 grid-supplied electricity and industrial steam, and scope 3 purchased goods and services; capital goods; fuel- and energy-related activities not included in scope 1 or scope 2; upstream transportation and distribution; business travel; employee commuting; upstream leased assets; use of sold products; and end-of-life treatment of sold products.

The main objectives of the verification were as follows:

- To conduct limited assurance verification of Dynabook's scope 1, scope 2, and scope 3 GHG emission inventory estimates for the period April 2023 through March 2024, detailed above.
- To evaluate how the collation and management of the GHG inventory conforms to the criteria, principles, and requirements of the World Resources Institute and the World Business Council for Sustainable Development GHG Protocol, 2004 (hereafter "GHG Protocol") and International Standard for the Validation and Verification of Greenhouse Gas Assertions (ISO 14064-3).
- To use this verification process to support Dynabook's continuous improvement of voluntary GHG accounting data, procedures, and management.

The criteria for this verification are defined by the GHG Protocol and detailed in ISO 14064-3.

Verification Process

Thrive ESG conducted the verification as follows:

- Reviewed Dynabook's GHG inventory approach in terms of boundary setting, calculation methods, and data collection;
- Developed a risk-based verification plan and evidence-gathering plan that focused on documentation of the source data, emission factors, and calculations to estimate GHGs;
- Confirm data management and control systems, and confirm quality control and quality assurance procedures; and
- Corresponded by e-mail, with UL Japan as liaison, with key stakeholders to review the information systems and controls in place and to assess the accuracy and robustness of the systems and to verify boundaries, documentation, and methods.

Verification Findings

The verification resulted in various observations. The following is a summary of our findings:

- Thrive ESG reviewed the emission factors, global warming potentials, and conversion factors used in the Dynabook inventory calculations. Dynabook used appropriate emission factors provided by the governments of Japan and China for scope 1-2, and published extended economic input/output factors for Scope 3, supplemented with data from more detailed product life cycle assessment and transport/logistics analysis for Scope 3 as applicable.
- Thrive ESG reviewed corporate documentation of scope 1 and scope 2 emission sources and did not find material or systematic errors.
- Thrive ESG reviewed corporate documentation supporting the reported activity amounts used to estimate scope 3 emissions. We did not find material or systematic errors in scope 3 emissions estimates.
- Dynabook reported that no refrigerant refills occurred during the reporting period. Upon further discussion, we recommended Dynabook standardize the tracking and reporting of fugitive refrigerant emissions in the future. Since these sources are only relevant to office areas and not manufacturing, it may not be a material source of emissions.
- Dynabook's largest source of reported emissions (86% from April 2023 – March 2024) is from purchased goods and services related to laptop computers. Actual spend amounts were used in combination with emission factors from environmentally extended input-output economic statistics of Japan to estimate these emissions. We did not find material or systematic errors in these calculations, though the uncertainty of such statistical emission factors may be higher than specific average factors.
- Dynabook's second largest source of reported emissions (10% from April 2023 – March 2024) is from the use of its sold laptop computer products. Though the use of the products is outside of Dynabook's operational control, reasonable assumptions were used to represent active use, inactive use, and product lifetime to estimate electricity consumption and resulting emissions. We did not find material or systematic errors in these calculations.
- Though enterprise GHG emissions footprints are commonly conducted for a whole enterprise, this calculation is limited to activities for laptop computer products, a subset of Dynabook products, to be consistent with EPEAT requirements. Organizations may set boundaries based

on various factors. Dynabook should transparently communicate this as a subset of its complete enterprise emissions in any public or stakeholder communications.

Conclusion

The Dynabook GHG inventory was prepared according to the requirements defined by the GHG Protocol. Table 1 summarizes the Dynabook GHG inventories subject to this review.

Table 1. Summary of Dynabook GHG Inventory

Emission Scope	Emission Source	April 2023 – March 2024 Emissions (MT CO ₂ e)
Scope 1	Fuel in stationary equipment	111
Scope 1	Fuel in mobile equipment	29
Scope 2	Electricity	5,912
Scope 2	Industrial steam	1,251
Scope 3	Category 1: Purchased goods and services	820,733
Scope 3	Category 2: Capital goods	20,261
Scope 3	Category 3: Fuel- and energy-related activities not included in scope 1 or scope 2	1,105
Scope 3	Category 4: Upstream transportation and distribution	6,916
Scope 3	Category 6: Business travel	922
Scope 3	Category 7: Employee commuting	550
Scope 3	Category 8: Upstream leased assets	1,514
Scope 3	Category 11: Use of sold products	94,549
Scope 3	Category 12: End-of-life treatment of sold products	532

Based on the process and procedures conducted, there is no evidence that the Dynabook GHG statement for April 2023 through March 2024;

- is not materially correct and is not a fair representation of GHG data and information;
- has not been prepared in accordance with related International Standards on GHG quantification, monitoring and reporting, or to relevant national standards or practices.

Verifier: James Mellentine
Thrive ESG
Golden, Colorado, USA
E-mail: jim@thriveesg.com

Signature:

Completed: July 15, 2025

Summary of qualifications:

James has been developing and reviewing carbon footprints for fourteen years. He has completed dozens of carbon footprints for enterprises and products and has conducted independent critical reviews or verifications on dozens of carbon footprints developed by others.

GHG Emissions Verification Report



Revision History

00	September 2025	Initial issue
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