

# Environmental Management

## Environmental Management

In addition to complying with environment-related laws, regulations, agreements, and voluntary management standards, YKK AP is working to clarify risks and opportunities in its business and strengthen global environmental management by the senior leadership.

In addition, the YKK AP Group (Japan) operates an integrated company-wide ISO 14001 system to ensure structured operation of its environmental management system. Each of our overseas business sites has acquired and is implementing ISO 14001 certification, and all employees are united in their efforts to promote environmental management.

→ Environmental Report 2024 – Promote of Global Environmental Management  
<https://www.ykkapglobal.com/ja/sustainability/environment/report/global/>

### YKK AP Environmental Management Policy (FY2021 to FY2024)

#### Creating environmental values at every stage of the life cycle: Toward a brighter future for nature and humanity

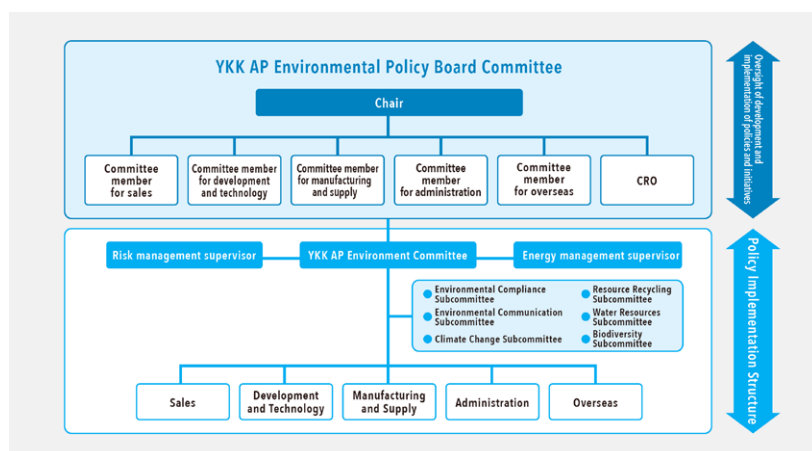
With the intention of making a better society and environment for the next generation, YKK AP will take on the challenge of creating new value and eliminating its environmental burden through technical innovation.

- We will strive to contribute to resolving environmental issues throughout the value chain and reducing the environmental burden.
- We will address issues pertaining to climate change, resource recycling, water, and biodiversity as environmental ones.
- We will create new environmental value with an eye toward the future, on a foundation of diversity in our human resources.

→ Environmental Report 2024 – YKK AP Environmental Management Policy  
<https://www.ykkapglobal.com/ja/sustainability/environment/report/commitment/#Policy>

## Environmental Promotion Structure

As part of our environment-friendly practices, the YKK AP Environmental Policy Board Committee, chaired by the president, formulates and approves management policies and strategies regarding climate change and other environmental policies from a management perspective, and confirms the progress thereof. The YKK AP Environment Committee implements these environmental management policies and strategies in sales, development, technology, manufacturing, supply, administration, and overseas divisions, and confirms their implementation status through internal environmental audits among divisions.



→ Environmental Report 2024 – Environment Promotion Structure  
<https://www.ykkapglobal.com/ja/sustainability/environment/report/governance/>





## Environmental Targets

YKK AP sets environmental targets for each medium term based on "how we ought to be" for 2050 and Environmental Management Policy.

Under the 6th Mid-term Environmental Business Plan (FY2021–FY2024), we are working toward "how we ought to be" for 2050 by backcasting our targets for 2030, and then setting mid-term achievement targets to be achieved in FY2024, on the basis of which we will set numerical targets and action plans for each fiscal year.

### [Environmental Issues and Initiatives]

### [FY2030 environmental targets (relative to FY2013)]

 <b>Climate change</b>	<p>We will be proactive in the development and sales of products that contribute to the reduction of GHG emissions and products that address climate change. We will also promote efficient energy use and the introduction of renewable energy sources to achieve zero GHG emissions from our business activities and value chain.</p>	<ul style="list-style-type: none"> <li>● CO<sub>2</sub> Scopes 1 + 2: 80 % reduction in emissions</li> <li>● CO<sub>2</sub> Scope 3: 30 % reduction in emissions</li> </ul>
 <b>Resource recycling</b>	<p>To minimize resource input, we will work to use materials for internal and external recycling and reduce packaging materials. In addition, to minimize waste emissions in our business activities, we will promote thorough sorting of waste and its conversion into valuable resources.</p>	<ul style="list-style-type: none"> <li>● Aluminum recycling rate<sup>*1</sup>: 100 %</li> <li>● Vinyl recycling rate<sup>*2</sup>: 100 %</li> </ul>
 <b>Water</b>	<p>To achieve sustainable use of water, we will work to recycle water in our business activities and reduce the environmental impact of wastewater.</p>	<ul style="list-style-type: none"> <li>● Water use: Reduction of 36 %</li> </ul>
 <b>Biodiversity</b>	<p>We will develop individuals who can coexist with nature and contribute to local communities and society, as well as conducting environmental activities with everyone participating.</p>	<p>—</p>

\*1 Ratio of input of recycled materials from the market to the input of aluminum raw materials

\*2 Rate of internal reuse of internally generated vinyl scraps

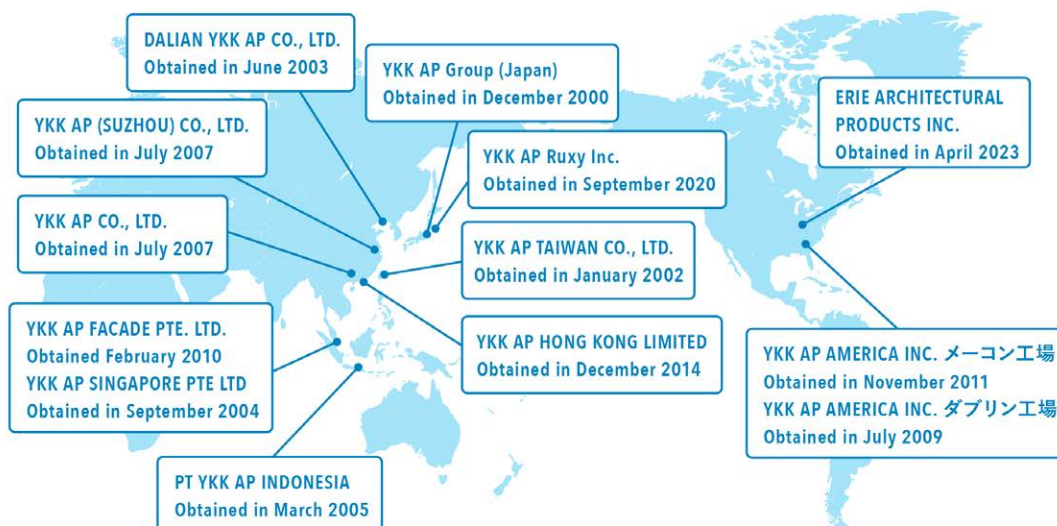
→ Environmental Report 2024 – Environmental Strategy: History of YKK AP's Environmental Initiatives and our "How we Ought to Be" for 2050  
<https://www.ykkapglobal.com/ja/sustainability/environment/report/manage/#sugata>

→ Environmental Report 2024 – Environmental Strategy: Environmental Targets for FY2024 (relative to FY2013)  
<https://www.ykkapglobal.com/ja/sustainability/environment/report/manage/#2024goal>

→ Environmental Report 2024 – Targets and Results: Numerical Targets and Action Plans for FY2024  
<https://www.ykkapglobal.com/ja/sustainability/environment/report/target/#plan>

## Environmental Management System Accreditation

In March 2023, the YKK AP Group (Japan) underwent a periodic audit by an external review organization using the 2015 edition of ISO 14001. The results showed the environmental management system to be functioning effectively as an environmental management tool. Eleven of our overseas business sites have obtained ISO 14001 certification.



\*As of April 2024 YKK Group (Japan) includes YKK AP Okinawa Inc. and Pros Inc.

→ Environmental Report 2024 – Implement and Promote the Environmental Management System  
<https://www.ykkapglobal.com/ja/sustainability/environment/report/global/#system>

## Percentage of companies certified to ISO 14001 environmental management standards

	FY2020	FY2021	FY2022	FY2023
Manufacturing	80 %	80 %	80 %	82 %
Sales, other	42 %	38 %	38 %	31 %
Total	59 %	57 %	57 %	52 %

## Number of Pollution and Environmental Incidents

	FY2020	FY2021	FY2022	FY2023
Number of pollution and environmental incidents	0	0	0	0

YKK AP Group (Japan+overseas) Results

## Percentage of employees who have received training on environmental issues

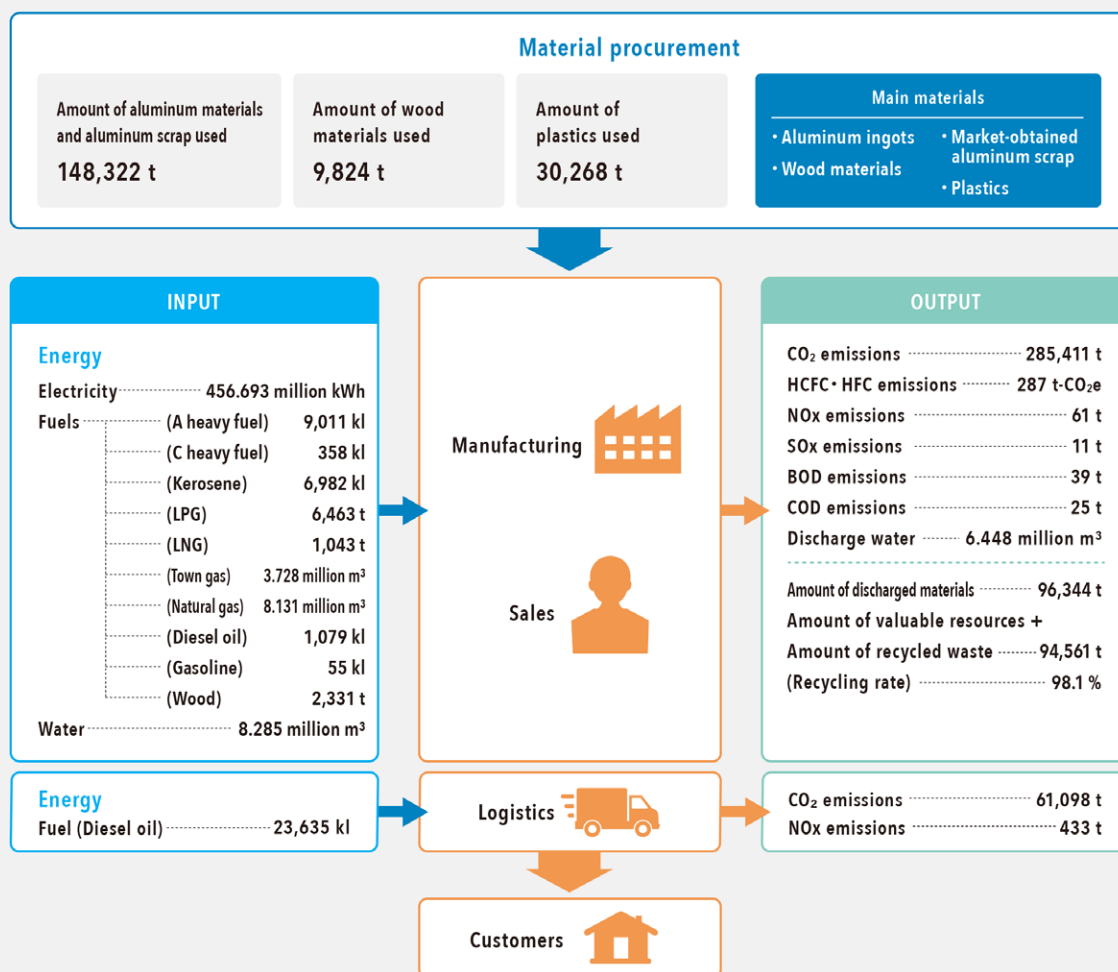
	FY2020	FY2021	FY2022	FY2023
Environmental training participation rate	100 %	100 %	100 %	100 %
Environmental activities (SDGs Action) participation rate	94 %	98 %	99 %	99 %

YKK AP Group (Japan) Results

→ Environmental Report 2024 – Initiatives with Stakeholders: Green Talent  
<https://www.ykkapglobal.com/ja/sustainability/environment/report/employee/>

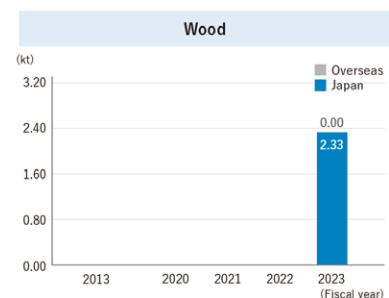
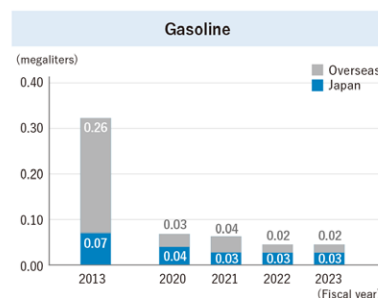
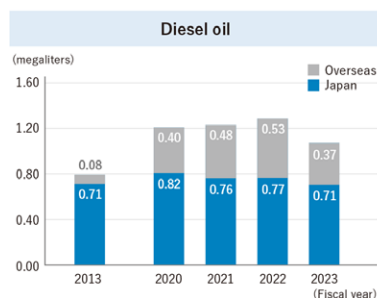
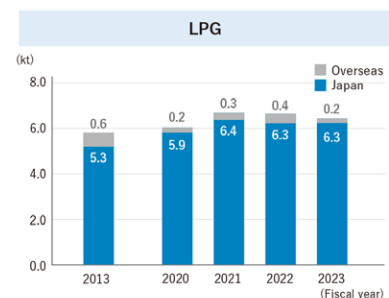
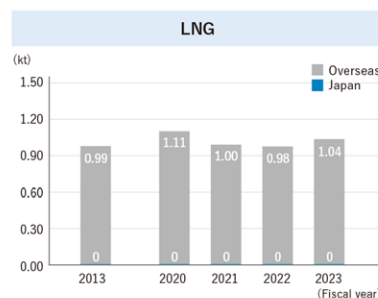
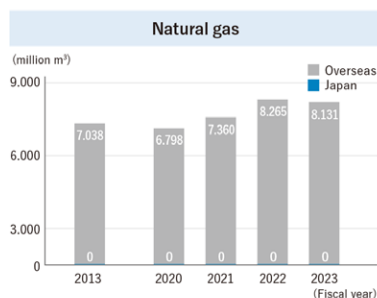
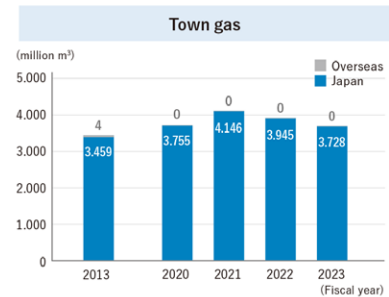
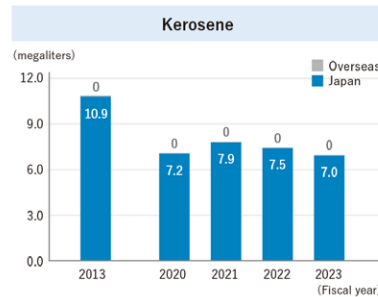
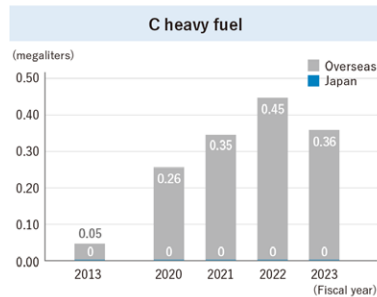
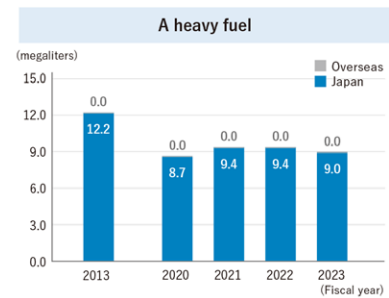
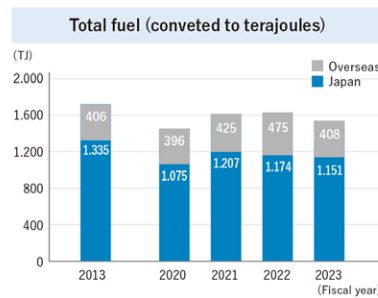
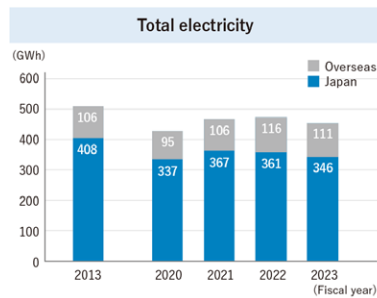
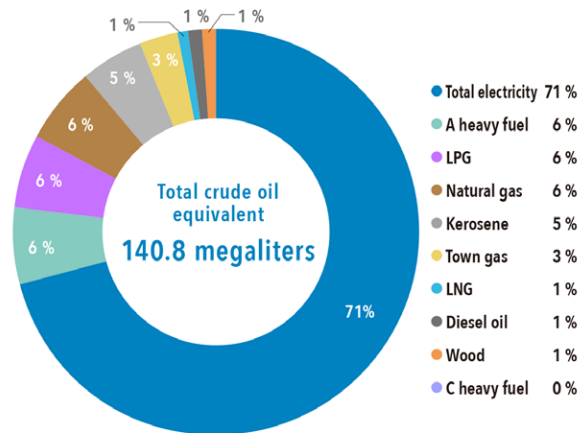
# Material Flow

## YKK AP Group (Domestic and Overseas Manufacturing Sites)



# Energy Conservation · Prevention of Global Warming

## Energy Use by Type

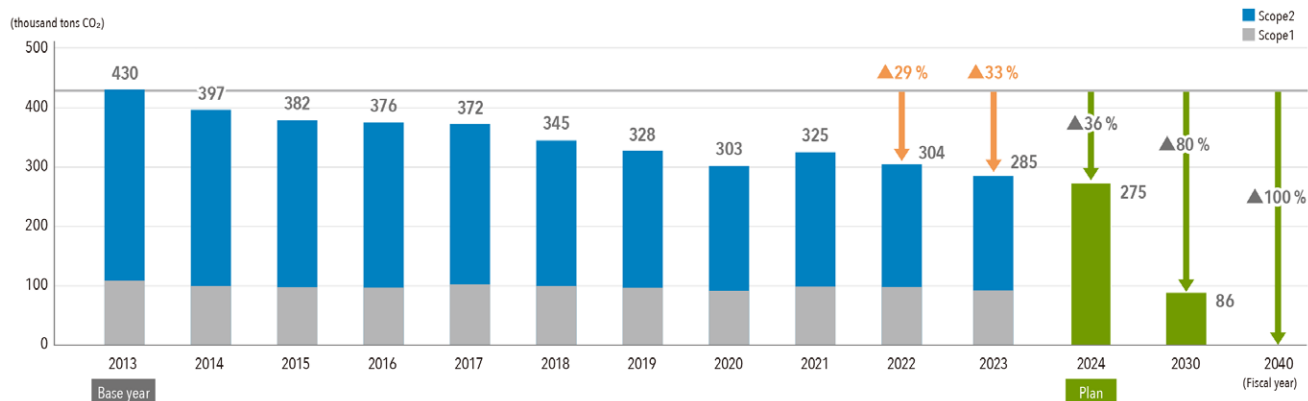


Note: Non-fossil fuels added in accordance with the revised Energy Conservation Act

	FY2013 (Base year)	FY2020	FY2021	FY2022	FY2023
Total electricity	514.15 GWh	432.07 GWh	472.46 GWh	476.62 GWh	456.69 GWh
of which renewable energy	0.38 GWh	7.64 GWh	10.60 GWh	63.45 GWh	74.47 GWh
A heavy fuel	12.25 megaliters	8.73 megaliters	9.45 megaliters	9.42 megaliters	9.01 megaliters
C heavy fuel	0.05 megaliters	0.26 megaliters	0.35 megaliters	0.45 megaliters	0.36 megaliters
Kerosene	10.95 megaliters	7.15 megaliters	7.91 megaliters	7.51 megaliters	6.98 megaliters
Town gas	3.463 million m <sup>3</sup>	3.755 million m <sup>3</sup>	4.146 million m <sup>3</sup>	3.945 million m <sup>3</sup>	3.728 million m <sup>3</sup>
Natural gas	7.038 million m <sup>3</sup>	6.798 million m <sup>3</sup>	7.360 million m <sup>3</sup>	8.265 million m <sup>3</sup>	8.131 million m <sup>3</sup>
LNG	0.99 kt	1.11 kt	1.00 kt	0.98 kt	1.04 kt
LPG	5.86 kt	6.09 kt	6.74 kt	6.71 kt	6.46 kt
Diesel oil	0.80 megaliters	1.22 megaliters	1.24 megaliters	1.30 megaliters	1.08 megaliters
Gasoline	0.33 megaliters	0.07 megaliters	0.06 megaliters	0.05 megaliters	0.05 megaliters
Wood	-	-	-	-	2.33 kt
Total energy (crude oil equivalent)	174.30 megaliters	147.38 megaliters	160.64 megaliters	161.41 megaliters	140.77 megaliters
Total energy consumption	998 GWh	849 GWh	926 GWh	935 GWh	890 GWh

YKK AP Group (Japan+overseas) Results

## Greenhouse Gas Emissions (Scopes 1 and 2)



	FY2013 (Base year)	FY2020	FY2021	FY2022	FY2023
Scope1: Direct emissions	107 kt CO <sub>2</sub>	90 kt CO <sub>2</sub>	98 kt CO <sub>2</sub>	99 kt CO <sub>2</sub>	92 kt CO <sub>2</sub>
Scope2: Emissions from electricity used	323 kt CO <sub>2</sub>	212 kt CO <sub>2</sub>	227 kt CO <sub>2</sub>	205 kt CO <sub>2</sub>	193 kt CO <sub>2</sub>
Scopes 1+2	430 kt CO <sub>2</sub>	303 kt CO <sub>2</sub>	325 kt CO <sub>2</sub>	304 kt CO <sub>2</sub>	285 kt CO <sub>2</sub>
CO <sub>2</sub> emissions per unit of net sales	107 t CO <sub>2</sub> /100 million yen	75 t CO <sub>2</sub> /100 million yen	73 t CO <sub>2</sub> /100 million yen	61 t CO <sub>2</sub> /100 million yen	53 t CO <sub>2</sub> /100 million yen

YKK AP Group (Japan) Results

## Renewable Energy Ratio

	FY2020	FY2021	FY2022	FY2023
Renewable energy ratio	1.8 %	2.2 %	13.3 %	16.3 %

YKK AP Group (Japan+overseas) Results

Percentage of total electricity derived from renewable energy sources

## Greenhouse Gas Emissions (Scope3)

	FY2013 (Base year)	FY2020	FY2021	FY2022	FY2023
(Greenhouse gas emissions) Scope3	1,922 kt CO <sub>2</sub>	1,523 kt CO <sub>2</sub>	1,770 kt CO <sub>2</sub>	1,741 kt CO <sub>2</sub>	1,727 kt CO <sub>2</sub>

YKK AP Group (Japan+overseas) Results

Note: Based on the latest CO<sub>2</sub> emission coefficients, retroactively revised for past years

FY2023 Breakdown of CO<sub>2</sub> emissions from the entire supply chain\*

		Japan	Overseas	Total
Scope1: Direct emissions		70.7 kt CO <sub>2</sub>	21.4 kt CO <sub>2</sub>	92.0 kt CO <sub>2</sub>
Scope2: Emissions from electricity used		146.2 kt CO <sub>2</sub>	47.3 kt CO <sub>2</sub>	193.4 kt CO <sub>2</sub>
Scope3	Purchased goods and services	1,067.9 kt CO <sub>2</sub>	350.2 kt CO <sub>2</sub>	1,418.1 kt CO <sub>2</sub>
	Capital goods	135.4 kt CO <sub>2</sub>	48.8 kt CO <sub>2</sub>	184.2 kt CO <sub>2</sub>
	Fuel and energy-related activities not included in scope1 or scope2	25.9 kt CO <sub>2</sub>	5.0 kt CO <sub>2</sub>	30.9 kt CO <sub>2</sub>
	Upstream transportation and distribution	34.7 kt CO <sub>2</sub>	9.2 kt CO <sub>2</sub>	43.9 kt CO <sub>2</sub>
	Waste generated in operations	0.5 kt CO <sub>2</sub>	1.1 kt CO <sub>2</sub>	1.5 kt CO <sub>2</sub>
	Business travel	5.1 kt CO <sub>2</sub>	0.3 kt CO <sub>2</sub>	5.3 kt CO <sub>2</sub>
	Employee commuting	13.0 kt CO <sub>2</sub>	0.4 kt CO <sub>2</sub>	13.4 kt CO <sub>2</sub>
	Upstream leased assets	0.0 kt CO <sub>2</sub>	0.0 kt CO <sub>2</sub>	0.0 kt CO <sub>2</sub>
	Downstream transportation and distribution	1.1 kt CO <sub>2</sub>	5.2 kt CO <sub>2</sub>	6.2 kt CO <sub>2</sub>
	Processing of sold products	13.2 kt CO <sub>2</sub>	1.7 kt CO <sub>2</sub>	14.9 kt CO <sub>2</sub>
	Use of sold products	0.0 kt CO <sub>2</sub>	0.0 kt CO <sub>2</sub>	0.0 kt CO <sub>2</sub>
	End-of-life treatment of sold products	6.8 kt CO <sub>2</sub>	2.0 kt CO <sub>2</sub>	8.7 kt CO <sub>2</sub>
	Downstream leased assets	0.0 kt CO <sub>2</sub>	0.0 kt CO <sub>2</sub>	0.0 kt CO <sub>2</sub>
	Franchises	0.0 kt CO <sub>2</sub>	0.0 kt CO <sub>2</sub>	0.0 kt CO <sub>2</sub>
	Investments	0.0 kt CO <sub>2</sub>	0.0 kt CO <sub>2</sub>	0.0 kt CO <sub>2</sub>
	Scope3 Total	1,303.5 kt CO <sub>2</sub>	423.8 kt CO <sub>2</sub>	1,727.3 kt CO <sub>2</sub>
Scope1,2, and 3 Total		1,520.4 kt CO <sub>2</sub>	492.4 kt CO <sub>2</sub>	2,012.8 kt CO <sub>2</sub>

YKK AP Group (Japan + overseas) Results

Note: Calculated based on "YKK Group GHG Emissions Calculation and Reporting Guidelines" and "Scope 3 Calculation Method"

→ Environmental Report 2024 – Environmental Impact Information: Scope 3 Calculation Method  
<https://www.ykkapglobal.com/ja/sustainability/environment/report/data/data01.php#scope3>

## Environmentally Conscious Investment Policy and Results

In order to contribute to a sustainable society through our products and monozukuri, YKK AP is actively investing in the development of environmentally friendly products and initiatives to reduce the burden on the global environment, such as reducing CO<sub>2</sub> emissions and recycling. At the same time, we will clarify cost-effectiveness and explain our results to stakeholders.

→ Environmental Report 2024 – Environmental Management Accounting: Environmentally Conscious Investment Policy  
<https://www.ykkapglobal.com/ja/sustainability/environment/report/data/data03.php#policy>



## Resource Conservation · Recycling

### Waste Emissions and Recycling

	FY2016 (Base year)	FY2020	FY2021	FY2022	FY2023
Waste output	20.5 kt	15.4 kt	15.9 kt	15.4 kt	17.4 kt
Waste emissions per unit of net sales*	4.95 t/100 million yen (100)	3.82 t/100 million yen (77)	3.57 t/100 million yen (72)	3.03 t/100 million yen (61)	3.23 t/100 million yen (65)
Amount of landfill disposal	3.0 kt	1.1 kt	1.2 kt	1.3 kt	1.8 kt
Amount of valuable resources + Amount of waste recycled	87.9 kt	86.2 kt	95.2 kt	100.2 kt	95.0 kt
Waste recycling rate	97 %	99 %	99 %	99 %	98 %

YKK AP Group (Japan+overseas Manufacturing sites) Results

\*Figures in parentheses indicate a relative amount to the base year, FY2016, which is set at 100

### Aluminum Recycling

Because the refining of new aluminum ingots requires a great deal of electricity and generates a large amount of CO<sub>2</sub> emissions, improving the recycling rate will contribute to achieving carbon neutrality.

As an initiative in this regard, introducing recycling furnaces will greatly increase the input rate of market-obtained recycled materials, thereby reducing the rate of new ingots used, which leads to significantly reducing CO<sub>2</sub> emissions across the entire supply chain.

Starting with introducing a recycling furnace at the Shikoku Plant, we plan to expand this initiative to other sites, and will step up efforts to achieve a 100 % recycling rate by 2030.

In addition to improving the recycling rate, we are also working to cut CO<sub>2</sub> emissions by promoting the procurement of "green aluminum," which is refined from bauxite using renewable energy.

### Vinyl Recycle

During the manufacturing process for vinyl frame materials and vinyl windows, we strive to minimize the generation of vinyl scraps and chips through efficient production. By reclaiming scraps and chips generated from the production process as vinyl materials, we are working to improve the rate at which they are recycled. We are also actively developing new applications for vinyl scraps. We are also engaged in industry-government-academia collaboration to establish a system to collect and recycle vinyl windows once they have been used.

→ Environmental Report 2024 – Resource Recycling (Circular Economy): Reduce and Recycle Vinyl Materials  
<https://www.ykkapglobal.com/ja/sustainability/environment/report/circulate/#recycling>

## Approach to Water Resources

YKK AP undertakes initiatives to achieve sustainable water use by reducing the amount of water withdrawn and the environmental impact of wastewater discharge through the recycling and reuse of water in the production process.

→ Environmental Report 2024 – Water  
<https://www.ykkapglobal.com/ja/sustainability/environment/report/water/>

## Water Consumption (Water Withdrawal), Wastewater Discharge

	FY2013 (Base year)	FY2020	FY2021	FY2022	FY2023
Water consumption* <sup>1</sup> (water withdrawal)	12.575 million m <sup>3</sup>	10.008 million m <sup>3</sup>	9.840 million m <sup>3</sup>	8.894 million m <sup>3</sup>	8.285 million m <sup>3</sup>
Water use per unit of net sales* <sup>2</sup>	3,121 m <sup>3</sup> /100 million yen (100)	2,485 m <sup>3</sup> /100 million yen (79)	2,205 m <sup>3</sup> /100 million yen (71)	1,749 m <sup>3</sup> /100 million yen (56)	1,538 m <sup>3</sup> /100 million yen (49)
Wastewater discharge* <sup>3</sup>	11.457 million m <sup>3</sup>	8.367 million m <sup>3</sup>	8.447 million m <sup>3</sup>	6.293 million m <sup>3</sup>	5.878 million m <sup>3</sup>

\*1 YKK AP Group (Japan+overseas Manufacturing sites) Results

\*2 Results for YKK AP Group (domestic + overseas manufacturing sites). Figures in parentheses indicate a relative amount to the base year, FY2013, which is set at 100

\*3 YKK AP Group (Japan Manufacturing sites) Results

## Pollution Prevention

### PRTR Substances, Air Pollutants

	FY2020	FY2021	FY2022	FY2023
(PRTR substances) Volume handled* <sup>1</sup>	983 t	1,046 t	985 t	1,008 t
(PRTR substances) Emissions* <sup>1</sup>	50 t	54 t	52 t	73 t
(PRTR substances) Transfer amount to sewer system* <sup>1</sup>	11 t	12 t	13 t	20 t
(Air Pollutants) SOx* <sup>2</sup>	9 t	9 t	7 t	11 t
(Air Pollutants) NOx* <sup>2</sup>	50 t	54 t	51 t	61 t

\*1 YKK AP (non-consolidated) Results

\*2 YKK AP Group (Japan+overseas Manufacturing sites) Results

### Pollutants Discharged into Water

	FY2020	FY2021	FY2022	FY2023
Total weight of pollutants discharged into water*	33 t	44 t	34 t	37 t

YKK AP Group (Japan Manufacturing sites)

\* COD, BOD emission

BOD: Biochemical oxygen demand (discharge into rivers)

COD: Chemical oxygen demand (discharge into seas)

# Conservation of Biodiversity

## Basic Approach

Companies derive enormous benefits from ecosystems, including the use of biological resources and land, and the purification of water and air. Loss of biodiversity is said to pose the risk of a serious economic crisis.

YKK AP's business activities also benefit from biodiversity, and we will contribute to creating a sustainable society by undertaking initiatives for biodiversity in our business activities while minimizing negative impact to the greatest extent possible. Among many challenges we face, we are particularly conscious of "coexistence with nature," and as such, we aim to reduce the use and emission of highly hazardous chemical substances, provide safe and reliable products, and cultivate harmony with the surrounding environment.

→ [Environmental Report 2024 – Biodiversity](https://www.ykkapglobal.com/ja/sustainability/environment/report/ecology/)  
<https://www.ykkapglobal.com/ja/sustainability/environment/report/ecology/>

## Disclosure of Information under the TCFD Recommendations

One of the materialities YKK AP set in 2021 to drive sustainable growth is "Co-existence with the environment," and the company is promoting activities to contribute to reducing environmental impact and mitigating and adapting to climate change by promoting a decarbonized, recycling-based society and expanding sales of environmentally friendly products.

Aiming to achieve "zero environmental burden" throughout the entire lifecycle in business activities by 2050, we are creating environmental value at all stages of the lifecycle and implementing global activities to reduce environmental burdens.

In the area of climate change, which is a core issue within the materiality "Co-existence with the environment," we are working to reduce GHGs and adapt to climate change in all processes of our business activities, with the aim of achieving carbon neutrality by 2050. Having obtained SBT certification in January 2019 and endorsing the TCFD recommendations in May 2019, we are assessing the impact of climate-related risks and opportunities on our business activities and reflecting them in our management strategy.

### Governance

YKK AP has a Board of Directors as the decision-making and oversight body for important matters such as management policy, an Audit & Supervisory Board as the company's auditing organization, and has introduced an Operating Officer System to help the company promote the execution of business and operations.

In particular, sustainability issues are addressed by the "ESG General Meeting," chaired by the president, which conducts cross-functional activities by formulating policies from a company-wide perspective and rolling them out to related divisions and domestic and overseas group companies.

The Environmental Policy Board Committee, which is chaired by the president and has jurisdiction over the environmental area within the ESG General Meeting, formulates and approves environmental policies and strategies, including on climate change, from a management perspective, and monitors their progress. The "Environment Committee" rolls out these environmental policies and strategies to our manufacturing and sales sites in Japan and overseas, and confirms how they are being implemented through mutual internal environment audits.

### Strategy

In line with the TCFD recommendations, we are identifying and assessing the significant risks and opportunities that the issue of climate change poses to the AP Business.

Type		Financial impact on the business	Measures
Transition risks	Reputation	Loss of corporate value due to delay in responding to public demands, such as carbon neutrality	With an Executive Vice President as project leader, the Carbon Neutrality Project was launched in FY2021, and six working groups were established with the participation of young engineers, with initiatives underway in each group. In FY2023, the target year for achieving carbon neutrality was moved forward from FY2050 to FY2040, demonstrating the increased urgency of our initiatives.
	Market	Increased costs due to energy resource depletion	We are promoting the introduction of high-efficiency equipment (production equipment, lighting, and air conditioning) with the aim of reducing energy consumption per unit of production by 1.3 % or more per year over the medium to long term. In addition, we are implementing various measures to reduce energy consumption, such as the use of renewable energy, reductions in air leaks, and reductions in waste heat.
Physical risks	Urgent	Increased damage from natural disasters, supply chain fragmentation	In preparation for disaster and risk occurring, we have formulated BCPs at all locations in Japan and overseas. In addition, after reviewing and updating the Business Continuity Management (BCM) Code to ensure prompt implementation of BCPs, we are working to ensure it is thoroughly instilled across functional axes and on a regional site basis. In addition to purchasing materials from multiple suppliers, understanding and improving the supply chain, and securing inventories of critical management items in case of emergencies, the research and development, manufacturing, and purchasing divisions work together to set up alternative sources of supply, and other efforts taking the BCP into account are conducted from the product development phase.

Type		Financial impact on the business	Measures
Physical risks	Chronic	Restrictions on business activities due to water shortages caused by reduced rainfall	Water is used for cleaning and cooling in our production processes. In some areas, there is a risk of water use restrictions due to drought, and we are working to reduce water consumption by reviewing water intake for industrial use and implementing multi-level use of water, recycling, and reclamation.
Opportunities	Products/ Services	Increased demand for high thermal insulation products	The APW vinyl window series delivers high thermal insulation performance across the board, and includes the APW 430, a world leader in this regard. By expanding sales of high thermal insulation products like these, we are not just helping to reduce energy consumption, but are also improving indoor thermal environments and providing comfortable living spaces.
		Increased demand for carbon-free and recycled-resource products (e.g., recycled aluminum)	Since recycling aluminum requires less energy, CO <sub>2</sub> emissions can be significantly reduced to only about 3 % of those required to produce new aluminum ingots (new metal) from bauxite. By maximizing the use of used aluminum sashes and other materials recovered from the market, we aim to achieve an aluminum recycling rate of 100 % by FY2030. To realize this goal, we are introducing an aluminum recycling furnace and developing technologies to separate out impurities.

## Risk Management

Risks related to the business as a whole are assessed and reviewed once a year, prioritized by "scale of damage" and "frequency of occurrence," and each risk is managed by the relevant committee or division. Climate change-related risks (natural disasters, inadequate response to environmental regulations, etc.) are also identified as key risks and incorporated into the management process, with policies developed and monitored on a global basis by the Environment Committee and the BCM Committee.

## Indicators and Targets

In order to achieve carbon neutrality, we have set medium- and long-term goals certified by SBTi and formulated an environmental action plan to achieve them in conjunction with our mid-term business plan. In addition, under the "Evolution 2030" Vision announced in March 2023, we have brought forward our targets to reduce the company's own CO<sub>2</sub> emissions by 80 % in FY2030 and by 100 % in FY2040 (both relative to FY2013). Progress with respect to these indicators and targets is disclosed in the Environmental Report.

Indicators		Targets
Scopes 1+2 <sup>*1</sup>	Reductions in YKK AP CO <sub>2</sub> emissions	80 % reduction by FY2030 (relative to FY2013)
Scope 3 <sup>*1</sup>	Reductions in CO <sub>2</sub> emissions in the supply chain	30 % reduction by FY2030 (relative to FY2013)
During product use <sup>*2</sup>	Increased contributions to CO <sub>2</sub> reductions	216 % in FY2024 <sup>*3</sup> (relative to FY2020)

\*1 Data from YKK AP Group (Japan + overseas)

\*2 Data from YKK AP Group (Japan)

\*3 Calculated based on the latest FY2024 plan

## Contributions to CO<sub>2</sub> Reductions through Products

### Contributions to CO<sub>2</sub> reductions through high thermal insulation products

	FY2020	FY2021	FY2022	FY2023
Contributions to CO <sub>2</sub> reductions through high thermal insulation products	468 kt-CO <sub>2</sub>	548 kt-CO <sub>2</sub>	594 kt-CO <sub>2</sub>	811 kt-CO <sub>2</sub>

YKK AP Group (Japan) Results

→ Environmental Report 2024 – Climate Initiative (Toward achieving carbon neutrality) Contributions to CO<sub>2</sub> reductions  
<https://www.ykkapglobal.com/ja/sustainability/environment/report/climate/#contribution>

### Sustainable Products

Sustainable products are defined as architectural products that contribute to achieving the SDGs by solving priority social issues such as energy conservation, easy-installation, disaster prevention/mitigation, safety/security, and health/hygiene.

	FY2020	FY2021	FY2022	FY2023
Rate of sustainable product sales	38.1 %	38.4 %	37.8 %	40.3 %

YKK AP Group (Japan+overseas) Results Based on net sales

### Rate of Vinyl Window Use

	FY2020	FY2021	FY2022	FY2023
Rate of vinyl window use (For single-family houses)	29 %	31 %	31 %	35 %

YKK AP Group (Japan+overseas) Results Rate of vinyl window use in sales for single family homes

### Rate of High Thermal Insulation Window Use

	FY2020	FY2021	FY2022	FY2023
Rate of high thermal insulation window use (For single-family houses)	67 %	70 %	75 %	79 %

YKK AP Group (Japan) Results Rate of vinyl window and aluminum-vinyl composite windows use in sales for single family homes

### Ratio of New Constructions to Remodeling Projects

		FY2020	FY2021	FY2022	FY2023
Ratio of new constructions to remodeling projects	Residential	New construction 75 %	New construction 77 %	New construction 76 %	New construction 69 %
		Remodeling 25 %	Remodeling 23 %	Remodeling 24 %	Remodeling 31 %
	Commercial	New construction 76 %	New construction 70 %	New construction 69 %	New construction 67 %
		Remodeling 24 %	Remodeling 30 %	Remodeling 31 %	Remodeling 33 %

YKK AP Group (Japan) Results Based on net sales