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 2025 — Promote Global Environmental Management
https://www.ykkapglobal.com/ja/sustainability/environment/report/global/

YKK AP Environmental Management Policy (FY2025 to FY2028)

Contributing to the Global Environment through Environmental Value Creation ～Towards Achieving Carbon Neutrality～

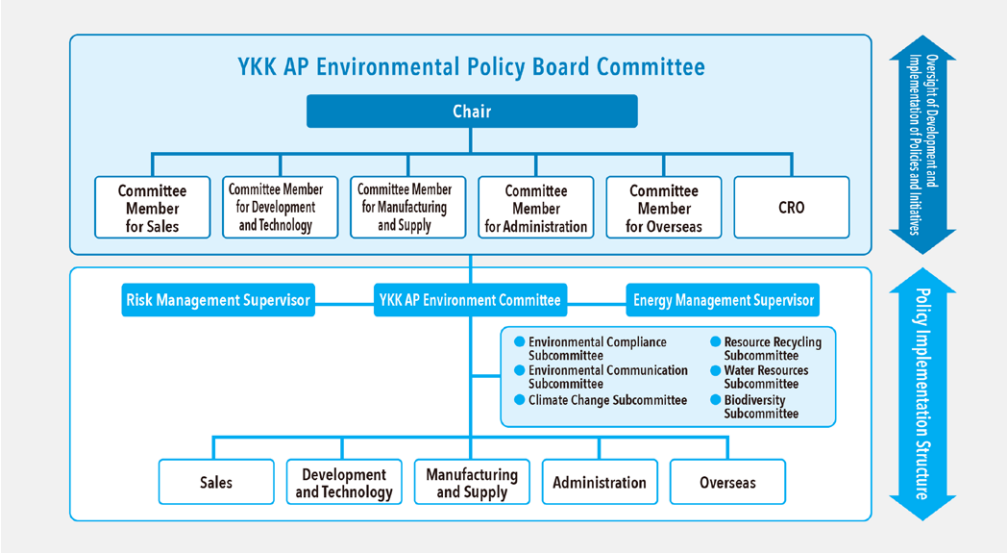
YKK AP contributes to the realization of rich lives for current and future generations and to the global environment by reducing environmental impact and creating environmental value.

- We will work to develop technologies and reduce the environmental impact in order to realize a decarbonized, recycling-oriented society.
- We address climate change, resource circulation, water conservation, and biodiversity throughout the entire life cycle.
- Based on a diverse workforce, we will work to create new environmental value with an eye to the future.

→ Environmental Report 2025 — YKK AP Environmental Management Policy
https://www.ykkapglobal.com/ja/sustainability/environment/report/commitment/#Policy

Environmental Promotion System

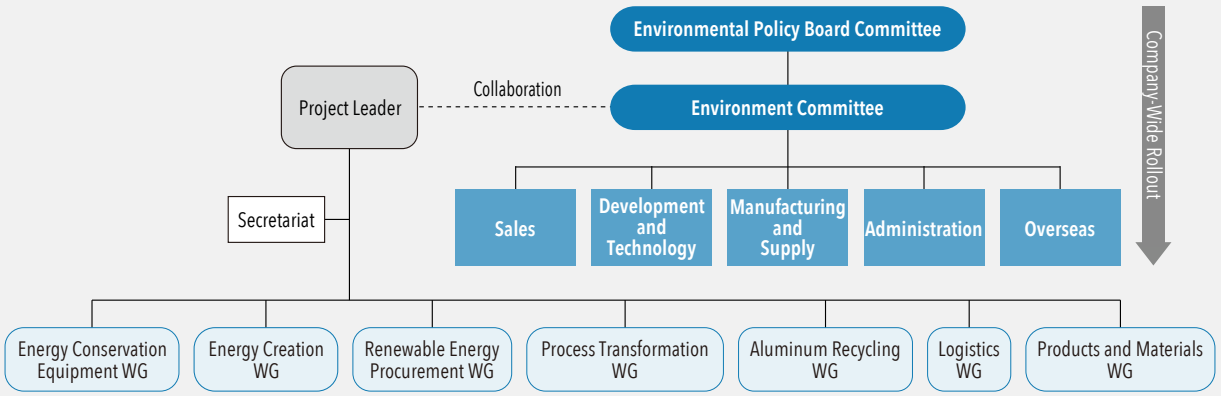
As part of our environment-friendly practices, the YKK AP Environmental Policy Board Committee, chaired by the president, formulates and approves management policies and strategies regarding climate change and other environmental policies from a management perspective, and confirms the progress thereof. 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 2025 — Environment Promotion System
https://www.ykkapglobal.com/ja/sustainability/environment/report/governance/

Carbon Neutral Project Highlights

In June 2021, we launched the "Carbon Neutral Project." With the head of the Manufacturing Division as project leader, seven working groups were established with the participation of young engineers. Each working group has been working on its respective initiatives, and a carbon neutral technology roadmap has been developed. Aiming to achieve, relative to FY2013, an 80% reduction in Scopes 1 and 2 and a 30% reduction in Scope 3 by FY2030, we will strengthen technological development aimed at carbon neutrality while reviewing our products, manufacturing, and platforms.



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 7th Mid-Term Environmental Business Plan (FY2025–FY2028), 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 FY2028, 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)]
Climate Change	We will actively develop and sell products that contribute to reducing greenhouse gas emissions and combat climate change. To achieve carbon neutrality in our business activities and value chain, we will focus on switching to low-carbon raw materials and fuels, using energy efficiently, and adopting renewable energy.	●CO_2 Scopes 1 + 2: 80 % Reduction in Emissions ●CO_2 Scope 3: 30 % Reduction in Emissions
Resource Recycling	We will strive to use resources efficiently, separate, collect and recycle waste to reduce the amount of raw materials and packaging materials used and minimize waste emissions.	●Recycled Aluminum Usage Rate*1: 100 % ●Vinyl Recycling Rate*2: 100 %
Water Conservation	We will work to recycle water and reduce the environmental impact of wastewater to ensure sustainable water use and protect the water environment.	●Water Use: Reduction of 42 %
Biodiversity	We will minimize the impact of our business activities on ecosystems, conserve biodiversity, and work with local communities to protect the natural environment.	—

*1 Proportion of aluminum raw materials supplied from company-internal scrap materials and market-obtained recycled materials
*2 Rate of internal reuse of internally generated vinyl scraps

→ Environmental Report 2025 — 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 2025 — Targets and Results: Numerical Targets and Action Plans for FY2025
https://www.ykkapglobal.com/ja/sustainability/environment/report/target/#plan

Performance Against Environmental Targets (Single Fiscal Year)

*Achievement Levels — ◎: Exceeded Plan, ○: Achieved as Planned, △: Partially Achieved (>90%), ×: Not Achieved

Theme		Indicators	FY2024 Plan	FY2024 Results	FY2024 Degree of Progress
Environmental Compliance		Pollution and Environmental Incidents*2	0	0	○
Green Talent		Environmental Training Participation Rate*1	100 %	100 %	○
		SDGs Action Participation Rate*1	Over 98 %	Summer 99 %・Winter 98 %	○
Environmental Issues	Climate Change	Contributions to CO_2 Reductions during Product Use*1	1,012 kt CO_2 (216 % vs FY2020)	821 kt CO_2 (175 % vs FY2020)	×
		YKK AP CO_2 Emissions*2	275 kt CO_2 (-36 % vs FY2013)	271 kt CO_2 (-37 % vs FY2013)	○
		Energy Use per Unit of Intensity*1	-4.3 % vs FY2024	-1.1 % vs FY2024	△
	Resource Recycling	Waste Emissions*3	17.0 kt (-17 % vs FY2016)	18.7 kt (-9 % vs FY2016)	×
		Waste Emissions per Unit of Intensity*3	-48 % vs FY2016	-33 % vs FY2016	×
		Waste Recycling Rate*3	99 %	98 %	△
	Water Conservation	Water Use*3	8.2 million m^3 (-35 % vs FY2013)	8.1 million m^3 (-35 % vs FY2013)	○
		Water Use per Unit of Intensity*3	-55 % vs FY2013	-54 % vs FY2013	△
	Biodiversity	Number of Social Contribution Activities*2	At least Two per Location	Total: 217	○

*1 YKK AP Group (Japan)
*2 YKK AP Group (Japan and Overseas)
*3 YKK AP Group (Japan and Overseas Manufacturing Sites)

Details of SBTi-Certified Targets

Science Based Targets (SBT) is an international initiative that provides a mechanism for companies to set long-term CO_2 reduction targets consistent with the 2°C target established by the Paris Agreement.

YKK AP obtained certification from the SBT initiative in January 2019. The CO_2 reduction target established in FY2017 was to reduce Scope 1+2 emissions by 30% by 2030 (vs FY2013 levels), but in response to the prospect of achieving this target ahead of schedule in FY2020, the target has been revised to a 50% reduction by 2030 (vs FY2013 levels).

FY2030 Greenhouse Gas Reduction Targets (Relative to FY2013)

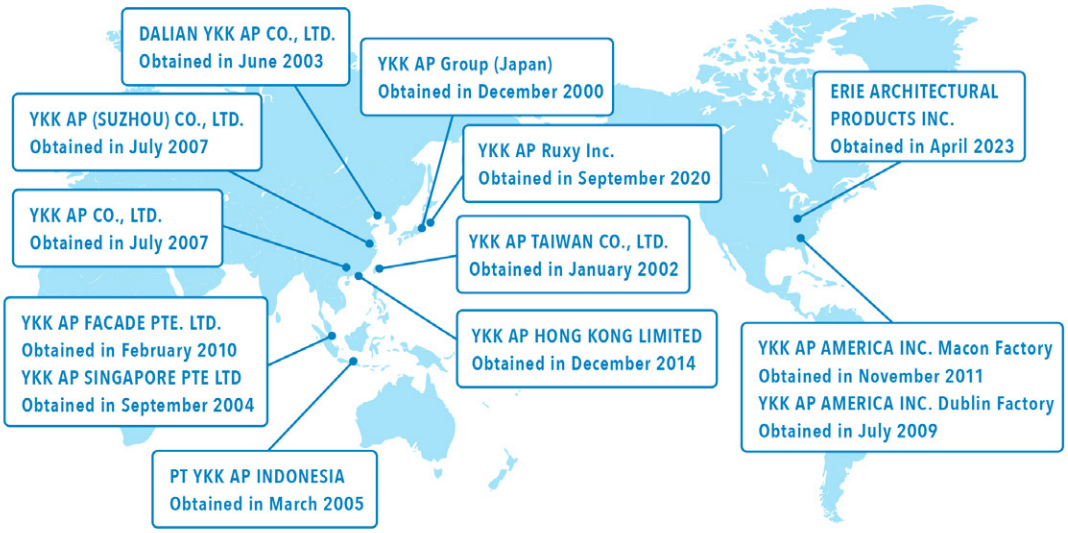
	Established FY2017 (SBTi-Certified in January 2019)	Established FY2020 (SBTi-Certified in February 2021)
YKK AP CO_2 Emissions Scopes 1*1 + 2*2	30 % Reduction	50 % Reduction
CO_2 Emissions in the Supply Chain Scope 3*3	30 % Reduction	30 % Reduction (No Change)

*1 Direct emissions from burning fuel at YKK AP
*2 Indirect emissions from the use of electricity at YKK AP
*3 Indirect emissions across the entire supply chain (emissions other than Scope 1 and Scope 2)

To achieve these targets, we will implement long-term measures focused on energy conservation of 1.3% or more per year, fuel conversion, and the introduction of renewable energy. Through these efforts, we will reduce Scope 1+2 emissions by 80% by 2030 and aim to achieve carbon neutrality ahead of schedule by 2040.

Environmental Management System Accreditation

In March 2025, 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 2025 YKK Group (Japan) includes YKK AP Okinawa Inc. and Pros Inc.

Environmental Report 2025 — 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

	FY2021	FY2022	FY2023	FY2024
Manufacturing	80 %	80 %	82 %	82 %
Sales, Other	38 %	38 %	31 %	31 %
Total	57 %	57 %	52 %	52 %

Number of Pollution and Environmental Incidents

	FY2021	FY2022	FY2023	FY2024
Number of Pollution and Environmental Incidents	0	0	0	0

Data from YKK AP Group (Japan and Overseas)

Third-Party Verification

YKK AP has obtained certification of its greenhouse gas emissions (Scope 1, Scope 2, and Scope 3 Category 1) and renewable energy usage from SGS Japan in order to enhance the reliability and transparency of this information.

→ Third-Party Verification
https://www.ykkapglobal.com/ja/sustainability/environment/report/asset/pdf/verification.pdf

Percentage of Employees who have Received Training on Environmental Issues

	FY2021	FY2022	FY2023	FY2024
Environmental Training Participation Rate	100 %	100 %	100 %	100 %
Environmental Activities (SDGs Action) Participation Rate	98 %	99 %	99 %	99 %

Data from YKK AP Group (Japan)

→ Environmental Report 2025 — Initiatives with Stakeholders: Green Talent
https://www.ykkapglobal.com/ja/sustainability/environment/report/employee/

Percentage of Business Sites where Environmental Risk Assessments have been Conducted

		FY2021	FY2022	FY2023	FY2024
Manufacturing Sites	Japan	100 %	100 %	100 %	96 %
	Overseas	58 %	58 %	67 %	62 %
	Overall	86 %	86 %	89 %	84 %
Number of Companies	Japan	57 %	57 %	57 %	40 %
	Overseas	53 %	50 %	53 %	48 %
	Overall	54 %	52 %	54 %	45 %

YKK AP's Major Manufacturing Sites in Japan and Overseas (Site Data)

YKK AP's manufacturing sites, located mainly in Tohoku, Kurobe, Namerikawa, Shikoku, and Kyushu in Japan, and in North America, China, and other parts of Asia overseas, develop, manufacture, and sell products tailored to the needs of each region and country.

YKK AP's Manufacturing Sites in Japan

	Product Category	Premise Area	CO_2 Emissions	Water Use	Final Disposal of Industrial Waste*1	Emissions of Chemical Substances*2
Tohoku Plant (Osaki-shi, Miyagi)	Residential Architectural Products, Commercial Architectural Products	745,200 m²	37,409 t CO_2	1.362 million m^3	0 t	4 t
Saitama MADO(Window) Plant (Kuki-shi, Saitama)	Windows, Insulating Glass	86,716 m²	0 t CO_2	0.046 million m^3	0 t	0 t
Kurobe Plant (Kurobe-shi, Toyama)	Architectural Products	301,000 m²	64,370 t CO_2	3.454 million m³	0 t	35 t
Kurobe Ekko Plant (Kurobe-shi, Toyama)	Architectural Parts	234,000 m²	7,293 t CO_2	0.4 million m³	0 t	0 t
Kurobe Ogyu Plant (Kurobe-shi, Toyama)	Residential Architectural Products	337,000 m²	7,892 t CO_2	0.141 million m³	0 t	0 t
Namerikawa Plant (Namerikawa-shi, Toyama)	Commercial Architectural Products, Residential Architectural Products	667,317 m²	11,430 t CO_2	0.366 million m³	0 t	0 t
Shikoku Plant (Utazu-cho, Ayagawa-gun, Kagawa)	Residential Architectural Products, Industrial Profiles	324,300 m²	26,414 t CO_2	0.678 million m³	0 t	2 t
Kyushu Plant (Yatsushiro-shi, Kumamoto)	Residential Architectural Products, Commercial Architectural Products, Industrial Profiles	342,000 m²	27,754 t CO_2	0.954 million m³	0 t	5 t

*1 Industrial waste that is sent for landfill disposal, industrial waste that is not recycled as fuel
*2 Indicates emissions of substances subject to PRTR (1 ton or more handled)

YKK AP's Overseas Manufacturing Sites

	Areas of Business	Premise Area	CO_2 Emissions	Water Use	Final Disposal of Industrial Waste*
YKK AP AMERICA INC. Dublin Factory	Manufacture and Sale of Aluminum Sashes and Windows for Commercial Buildings	817,052 m²	19,525 t CO_2	0.238 million m³	670 t
YKK AP AMERICA INC. Macon Factory	Manufacture and Sale of Vinyl Windows for Residential Use	202,343 m²	2,251 t CO_2	0.009 million m³	190 t
ERIE ARCHITECTURAL PRODUCTS INC. Lakeshore Factory (Canada)	Design, Manufacture, and Sale of Unitized Curtain Walls	57,000 m²	453 t CO_2	0.002 million m³	702 t
DALIAN YKK AP CO., LTD.	Manufacture and Sale of Vinyl Architectural Products	60,000 m²	2,490 t CO_2	0.012 million m³	7 t
YKK AP(SUZHOU) CO., LTD.	Manufacture and Sale of Aluminum Architectural Products and Components	396,315 m²	7,362 t CO_2	0.109 million m³	196 t
YKK AP CO.,LTD. Shenzhen Factory	Manufacture and Sale of Aluminum Architectural Products	112,152 m²	10,079 t CO_2	0.138 million m³	0 t
YKK AP TAIWAN CO., LTD. Yangmei Factory	Manufacture and Sale of Aluminum Architectural Products	16,088 m²	925 t CO_2	0.013 million m³	37 t
PT YKK AP INDONESIA	Manufacture and Sale of Aluminum Architectural Products and Aluminum Profiles	182,940 m²	25,313 t CO_2	0.078 million m³	0 t
Bhoruka Extrusions Private Limited	Manufacture and Sale of Aluminum Architectural Product-Related Items	64,742 m²	3,770 t CO_2	0.014 million m³	338 t

* Industrial waste that is sent for landfill disposal, waste that is not recycled as fuel

Material Flow

YKK AP Group (Japan and Overseas Manufacturing Sites)

Material Procurement

Amount of Aluminum Materials and Aluminum Scrap Used	Amount of Wood Materials Used	Amount of Plastics Used
145,563 t	11,082 t	37,767 t

Main Materials
- Aluminum Ingots
- Market-Obtained Aluminum Scrap
- Wood Materials
- Plastics

INPUT

Energy

Electricity		450.461 million kWh
Fuels	(A Heavy Fuel)	8,990 kL
	(C Heavy Fuel)	391 kL
	(Kerosene)	6,558 kL
	(Town Gas)	4.505 million m³
	(Natural Gas)	9.177 million m³
	(LNG)	907 t
	(LPG)	6,590 t
	(Diesel Oil)	968 kL
	(Gasoline)	57 kL
	(Wood)	2,345 t
Water		8.138 million m³

Energy

Fuel (Diesel Oil)	26,288 kL

Manufacturing

Sales

Logistics

Customers

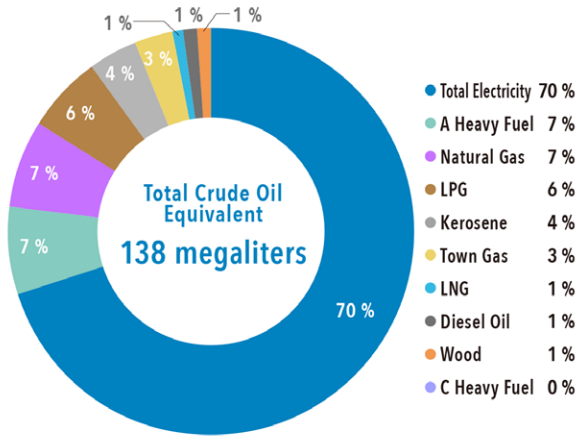
OUTPUT

CO_2 Emissions	270,639 t
HFC Emissions	415 t CO_2e
NOx Emissions	58 t
SOx Emissions	11 t
BOD Emissions	40 t
COD Emissions	19 t
Discharge Water	5.961 million m³
Amount of Discharged Materials	94,553 t
Amount of Valuable Resources + Amount of Recycled Waste	92,414 t
(Waste Recycling Rate)	97.7 %

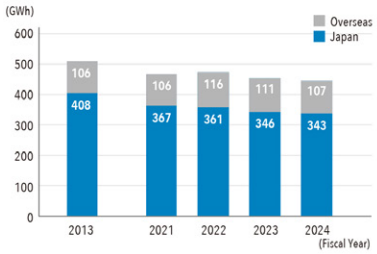
CO_2 Emissions	68,494 t
NOx Emissions	481 t

Energy Conservation・Prevention of Global Warming

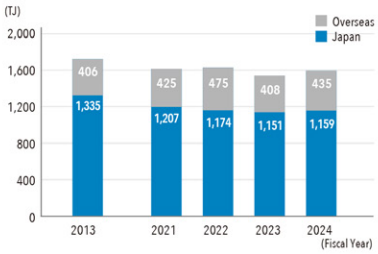
Energy Use by Type



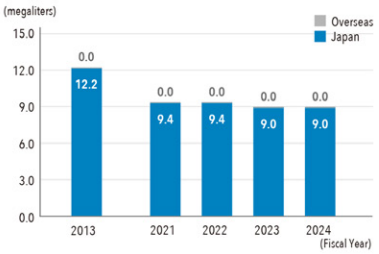
Total Electricity



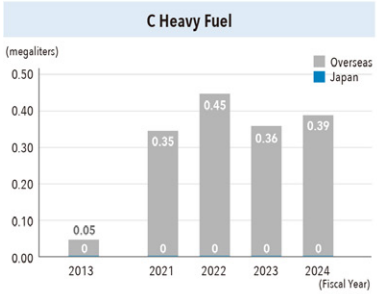
Total Fuel (Converted to Terajoules)



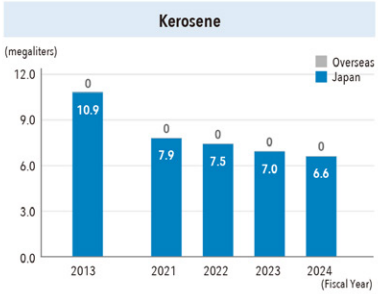
A Heavy Fuel



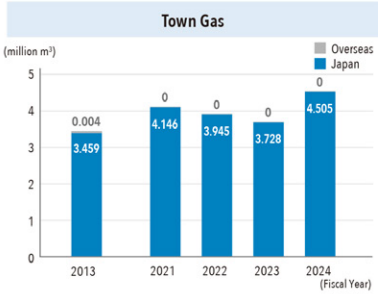
C Heavy Fuel



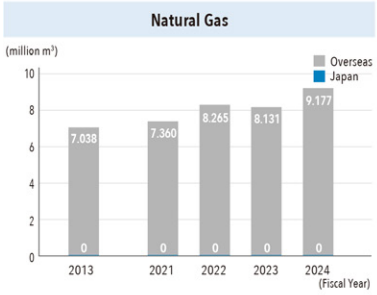
Kerosene



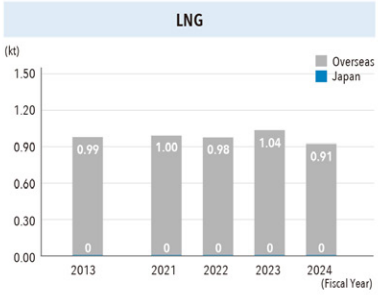
Town Gas



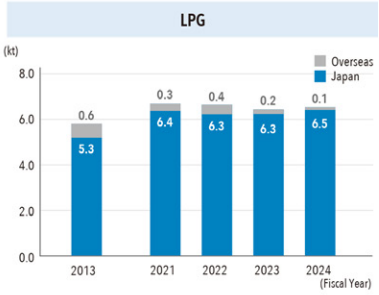
Natural Gas



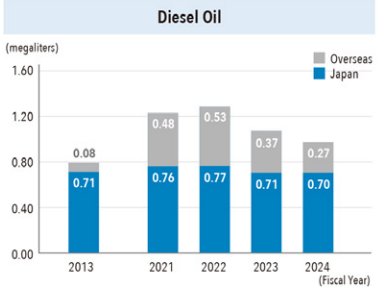
LNG



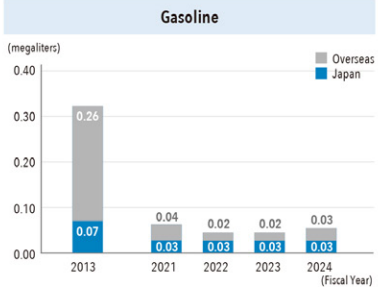
LPG



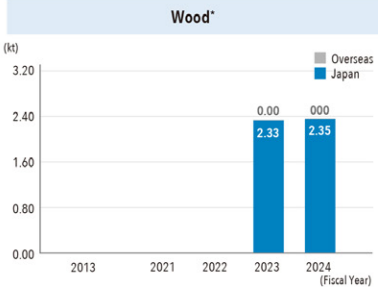
Diesel Oil



Gasoline



Wood*

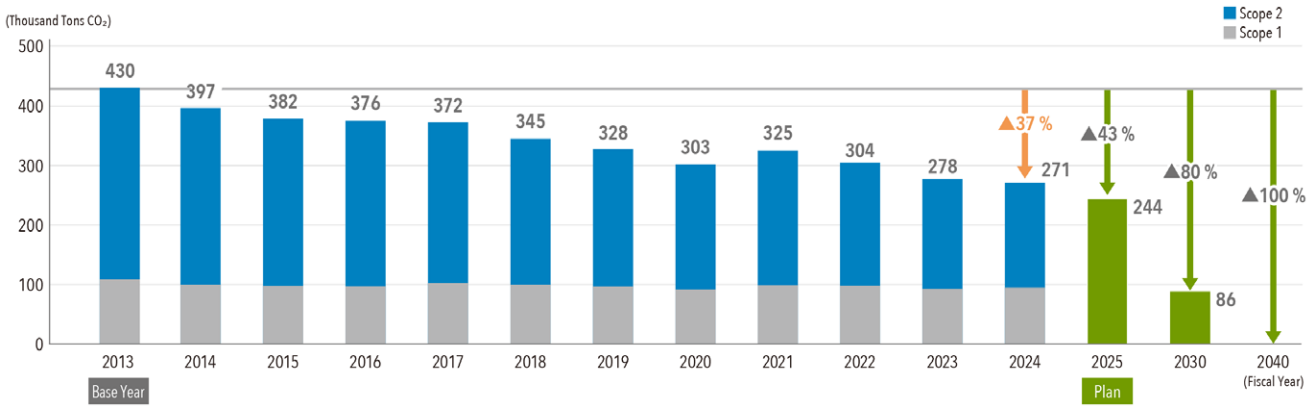


* Note: Non-Fossil Fuels added in accordance with the revised Energy Conservation Act

	FY2013 (Base Year)	FY2021	FY2022	FY2023	FY2024
Total Electricity	514.15 GWh	472.46 GWh	476.62 GWh	456.69 GWh	450.46 GWh
of Which Renewable Energy	0.38 GWh	10.60 GWh	63.45 GWh	74.47 GWh	★ 91.85 GWh
A Heavy Fuel	12.25 megaliters	9.45 megaliters	9.42 megaliters	9.01 megaliters	8.99 megaliters
C Heavy Fuel	0.05 megaliters	0.35 megaliters	0.45 megaliters	0.36 megaliters	0.39 megaliters
Kerosene	10.95 megaliters	7.91 megaliters	7.51 megaliters	6.98 megaliters	6.56 megaliters
Town Gas	3.463 million m³	4.146 million m³	3.945 million m³	3.728 million m³	4.505 million m³
Natural Gas	7.038 million m³	7.360 million m³	8.265 million m³	8.131 million m³	9.177 million m³
LNG	0.99 kt	1.00 kt	0.98 kt	1.04 kt	0.91 kt
LPG	5.86 kt	6.74 kt	6.71 kt	6.46 kt	6.59 kt
Diesel Oil	0.80 megaliters	1.24 megaliters	1.30 megaliters	1.08 megaliters	0.97 megaliters
Gasoline	0.33 megaliters	0.06 megaliters	0.05 megaliters	0.05 megaliters	0.06 megaliters
Wood	-	-	-	2.33 kt	2.35 kt
Total Energy (Crude Oil Equivalent)	174.30 megaliters	160.64 megaliters	161.41 megaliters	140.77 megaliters	138.38 megaliters
Total Energy Consumption	998 GWh	926 GWh	935 GWh	890 GWh	893 GWh

Data from YKK AP Group (Japan and Overseas)
* Data marked with ★ has received third-party verification

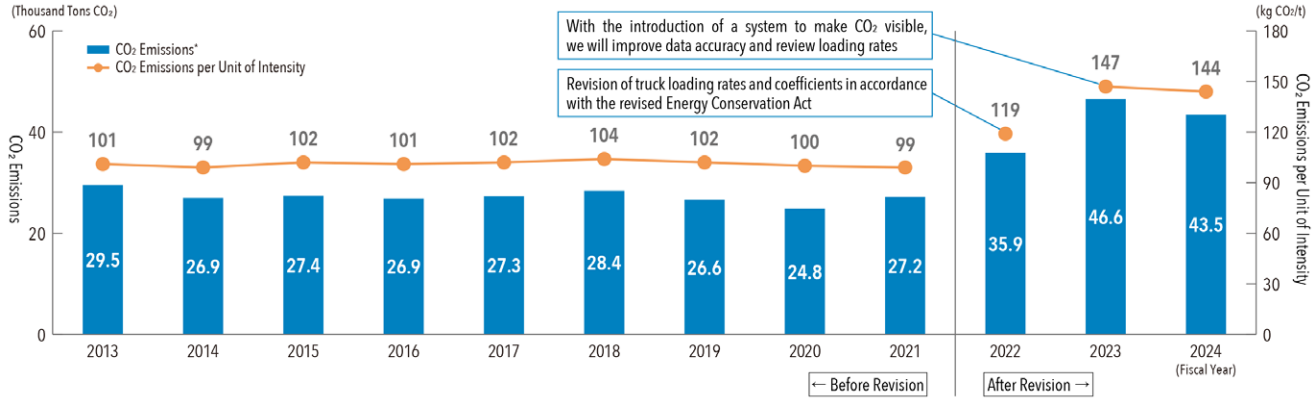
Greenhouse Gas Emissions (Scopes 1 and 2)



	FY2013 (Base Year)	FY2021	FY2022	FY2023	FY2024
Scope 1: Direct Emissions	107 kt CO_2	98 kt CO_2	99 kt CO_2	93 kt CO_2	★95 kt CO_2
Scope 2: Emissions from Electricity Used	323 kt CO_2	227 kt CO_2	205 kt CO_2	185 kt CO_2	★176 kt CO_2
Scopes 1+ 2	430 kt CO_2	325 kt CO_2	304 kt CO_2	278 kt CO_2	271 kt CO_2
CO_2 Emissions per Unit of Net Sales	107 t CO_2/100 million yen	73 t CO_2/100 million yen	61 t CO_2/100 million yen	52 t CO_2/100 million yen	48 t CO_2/100 million yen

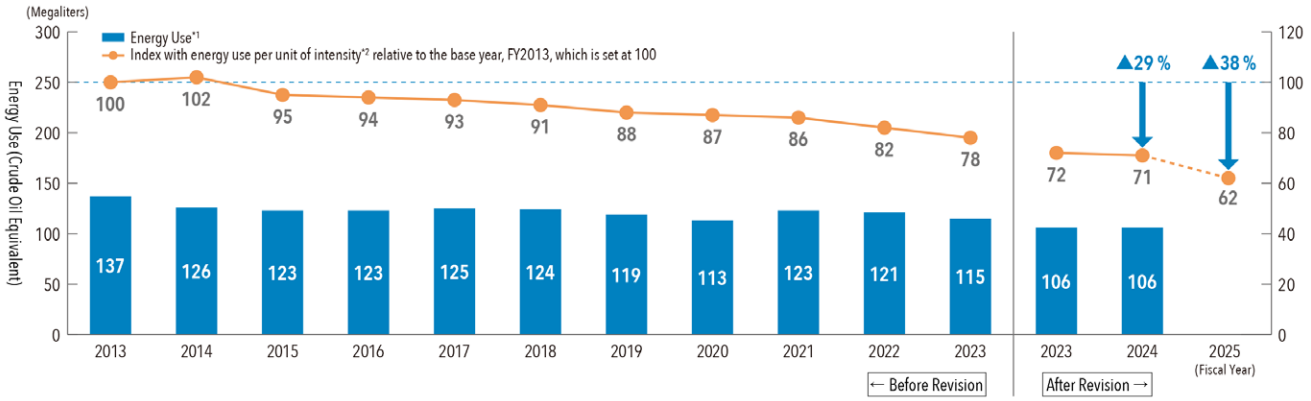
Data from YKK AP Group (Japan and Overseas)
* Data marked with ★ has received third-party verification

CO_2 Emissions from Logistics (Japan)



* Calculated based on the calculation method for specified shippers specified in the Act on Rationalization of Energy Use and Shift to Non-Fossil Energy

Energy Use and Energy Use per Unit of Intensity (Manufacturing and Sales Sites in Japan)



*1 The crude oil conversion coefficients used are those specified in the Act on Rationalization of Energy Use and Shift to Non-Fossil Energy. FY2023 and earlier are calculated using coefficients from before the revision of the Energy Conservation Act

*2 Energy use per shipment amount

Renewable Energy Ratio

	FY2021	FY2022	FY2023	FY2024
Renewable Energy Ratio	2.2 %	13.3 %	16.3 %	20.4 %

Data from YKK AP Group (Japan and Overseas)

* Percentage of total electricity derived from renewable energy sources

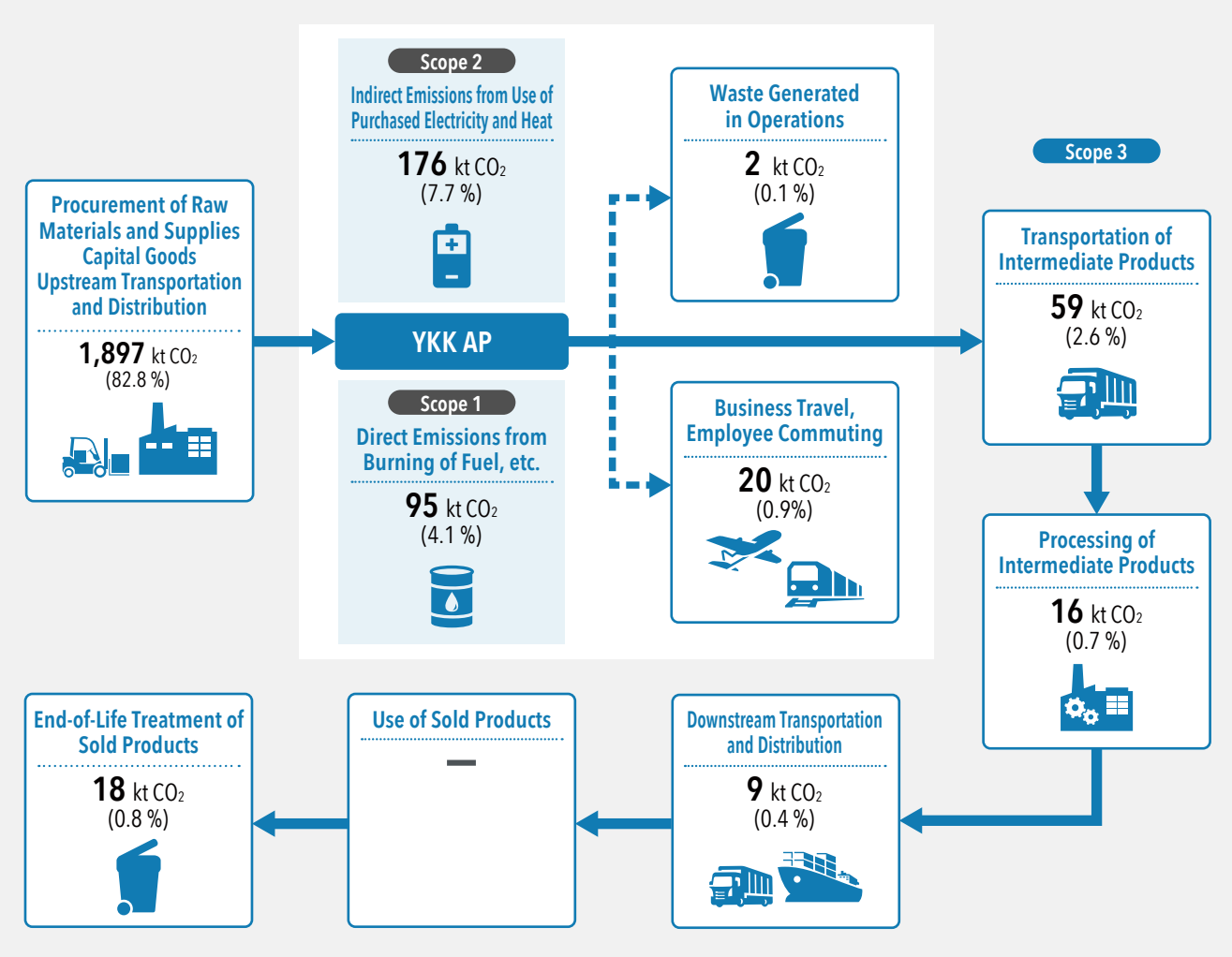
Greenhouse Gas Emissions (Scope 3)

	FY2013 (Base Year)	FY2021	FY2022	FY2023	FY2024
(Greenhouse Gas Emissions) Scope 3	2,495 kt CO_2	1,932 kt CO_2	2,079 kt CO_2	1,984 kt CO_2	2,021 kt CO_2

Data from YKK AP Group (Japan and Overseas)

* Based on the latest CO_2 emission coefficients, retroactively revised for past years

FY2024 Breakdown of CO_2 Emissions from the Entire Supply Chain



YKK AP Group (Japan and Overseas Manufacturing Sites)

		Japan	Overseas	Total
Scope 1: Direct Emissions		72 kt CO_2	23 kt CO_2	★95 kt CO_2
Scope 2: Emissions from Electricity Used		126 kt CO_2	50 kt CO_2	★176 kt CO_2
Scope 3	Purchased Goods and Services	1,060 kt CO_2	555 kt CO_2	★1,615 kt CO_2
	Capital Goods	184 kt CO_2	21 kt CO_2	205 kt CO_2
	Fuel-and Energy-Related Activities not Included in Scope 1 or Scope 2	62 kt CO_2	16 kt CO_2	78 kt CO_2
	Upstream Transportation and Distribution	42 kt CO_2	16 kt CO_2	59 kt CO_2
	Waste Generated in Operations	1 kt CO_2	1 kt CO_2	2 kt CO_2
	Business Travel	5 kt CO_2	0 kt CO_2	5 kt CO_2
	Employee Commuting	14 kt CO_2	1 kt CO_2	15 kt CO_2
	Upstream Leased Assets	0 kt CO_2	0 kt CO_2	0 kt CO_2
	Downstream Transportation and Distribution	1 kt CO_2	8 kt CO_2	9 kt CO_2
	Processing of Sold Products	14 kt CO_2	2 kt CO_2	16 kt CO_2
	Use of Sold Products	0 kt CO_2	0 kt CO_2	0 kt CO_2
	End-of-Life Treatment of Sold Products	16 kt CO_2	2 kt CO_2	18 kt CO_2
	Downstream Leased Assets	0 kt CO_2	0 kt CO_2	0 kt CO_2
	Franchises	0 kt CO_2	0 kt CO_2	0 kt CO_2
	Investments	0 kt CO_2	0 kt CO_2	0 kt CO_2
	Scope 3 Total	1,398 kt CO_2	623 kt CO_2	2,021 kt CO_2
Scope 1, 2, and 3 Total		1,596 kt CO_2	696 kt CO_2	2,291 kt CO_2

Data from YKK AP Group (Japan and Overseas)
* Data marked with ★ has received third-party verification

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 sustainable products and initiatives to reduce the burden on the global environment, such as reducing CO_2 emissions and recycling. At the same time, we will clarify cost-effectiveness and explain our results to stakeholders.

FY2024 Environmental Accounting Results

	FY2021		FY2022		FY2023		FY2024	
	Capital Investments	Expenses	Capital Investments	Expenses	Capital Investments	Expenses	Capital Investments	Expenses
Costs within Business Areas / Pollution Prevention Costs / Wastewater Treatment Equipment Operation and Administration Costs	234 million yen/year	721 million yen/year	138 million yen/year	741 million yen/year	188 million yen/year	767 million yen/year	89 million yen/year	775 million yen/year
Costs within Business Areas / Global Environmental Conservation Costs / Introduction of Waste Heat Recovery Equipment and High Efficiency Lighting Equipment	540 million yen/year	217 million yen/year	1,635 million yen/year	326 million yen/year	2,611 million yen/year	341 million yen/year	1,627 million yen/year	384 million yen/year
Costs within Business Areas / Resource Recycling Costs / Promotion of Recycling and Waste Volume Reduction	986 million yen/year	468 million yen/year	64 million yen/year	441 million yen/year	132 million yen/year	489 million yen/year	248 million yen/year	501 million yen/year

YKK AP Group (Japan)

Resource Conservation・Recycling

Waste Emissions and Recycling

	FY2016 (Base Year)	FY2021	FY2022	FY2023	FY2024
Waste Emissions	20.5 kt	15.9 kt	15.4 kt	17.4 kt	18.7 kt
Waste Emissions per Unit of Net Sales*	4.95 t/100 million yen (100)	3.57 t/100 million yen (72)	3.03 t/100 million yen (61)	3.23 t/100 million yen (65)	3.34 t/100 million yen (67)
Amount of Landfill Disposal	3.0 kt	1.2 kt	1.3 kt	1.8 kt	2.1 kt
Amount of Valuable Resources + Amount of Waste Recycled	87.9 kt	95.2 kt	100.2 kt	95.0 kt	92.5 kt
Waste Recycling Rate	97 %	99 %	99 %	98 %	98 %

Data from YKK AP Group (Japan and Overseas Manufacturing Sites)
* Figures in parentheses indicate a relative amount to the base year, FY2016, which is set at 100

Aluminum Recycling

Because the smelting of new aluminum ingots requires a great deal of electricity and generates a large amount of CO_2 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_2 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 further cut CO_2 emissions by promoting the procurement of "green aluminum," which is smelted 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 2025 — 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 2025 — Water Conservation
https://www.ykkapglobal.com/ja/sustainability/environment/report/water/

Water Use (Water Withdrawal), Wastewater Discharge Volume, Reuse and Reclamation Volume

	FY2013 (Base Year)	FY2021	FY2022	FY2023	FY2024
Water Use (Water Withdrawal)*1	12.575 million m³	9.840 million m³	8.894 million m³	8.285 million m³	8.138 million m³
Water Use per Unit of Net Sales*2	3,121 m^3/100 million yen (100)	2,205 m^3/100 million yen (71)	1,749 m^3/100 million yen (56)	1,538 m^3/100 million yen (49)	1,449 m^3/100 million yen (46)
Wastewater Discharge*3	11.457 million m³	8.447 million m³	6.293 million m³	5.878 million m³	5.961 million m³
Reuse and Reclamation Volume*1	0.053 million m³	0.038 million m³	0.041 million m³	0.060 million m³	0.056 million m³

*1 Data from YKK AP Group (Japan and Overseas Manufacturing Sites)
*2 Data from YKK AP Group (Japan and Overseas Manufacturing Sites) . * Figures in parentheses represent an index relative to the base year, FY2013, which is set at 100
*3 Data from YKK AP Group (Japan Manufacturing Sites)

Pollution Prevention

PRTR Substances, Air Pollutants

	FY2021	FY2022	FY2023	FY2024
(PRTR Substances) Volume Handled*1	1,046 t	985 t	1,025 t	994 t
(PRTR Substances) Emissions*1	54 t	52 t	83 t	80 t
(PRTR Substances) Transfer Amount to Sewer System*1	12 t	13 t	21 t	26 t
(Air Pollutants) SOx*2	9 t	7 t	11 t	11 t
(Air Pollutants) NOx*2	54 t	51 t	61 t	58 t
(Air Pollutants) VOC*2	29 t	29 t	27 t	26 t

*1 Data from YKK AP (Non-Consolidated)
*2 Data from YKK AP Group (Japan and Overseas Manufacturing Sites)

Pollutants Discharged into Water

	FY2021	FY2022	FY2023	FY2024
Total Weight of Pollutants Discharged into Water*	44 t	34 t	37 t	31 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 depend heavily on the abundant resources provided by the earth, and we believe that the conservation of biodiversity is essential for the realization of a sustainable society. We will minimize the impact of our business activities on ecosystems and collaborate with local communities to protect the natural environment.

→ Environmental Report 2025 — Biodiversity
https://www.ykkapglobal.com/ja/sustainability/environment/report/ecology/

Contributions to CO_2 Reductions through Products

Contributions to CO_2 Reductions through High Thermal Insulation Products

	FY2021	FY2022	FY2023	FY2024
Contributions to CO_2 Reductions through High Thermal Insulation Products	561 kt CO_2	607 kt CO_2	824 kt CO_2	832 kt CO_2

Data from YKK AP Group (Japan and Overseas)

→ Environmental Report 2025 — Climate Initiative (Toward achieving carbon neutrality) Contributions to CO_2 reductions
https://www.ykkapglobal.com/ja/sustainability/environment/report/climate/#contribution

Sustainable Products

"Sustainable Product" 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.

	FY2021	FY2022	FY2023	FY2024
Rate of "Sustainable Product" Sales	38.4 %	37.8 %	40.3 %	40.4 %

Data from YKK AP Group (Japan and Overseas) Based on Net Sales

Rate of Vinyl Window Use

	FY2021	FY2022	FY2023	FY2024
Rate of Vinyl Window Use (For Single-Family Houses)	31 %	31 %	35 %	39 %

Data from YKK AP Group (Japan) Rate of vinyl window use in sales for single family homes

Rate of High Thermal Insulation Window Use

	FY2021	FY2022	FY2023	FY2024
Rate of High Thermal Insulation Window Use (For Single-Family Houses) *1	70 %	75 %	79 %	88 %
Rate of High Thermal Insulation Window Use (For Commercial Buildings) *2	2 %	2 %	6 %	8 %

Data from YKK AP Group (Japan)
*1 Rate of vinyl, wood, and aluminum-vinyl composite windows in sales for single family homes
*2 Rate of vinyl, wood, and aluminum-vinyl composite windows in orders received for commercial buildings

Ratio of New Constructions to Remodeling Projects

			FY2021	FY2022	FY2023	FY2024
Ratio of New Constructions to Remodeling Projects	Residential	New Construction	68 %	67 %	63 %	62 %
		Remodeling	32 %	33 %	37 %	38 %
	Commercial	New Construction	70 %	69 %	68 %	68 %
		Remodeling	30 %	31 %	32 %	32 %

Data from YKK AP Group (Japan) Based on Net Sales