



# 2024 Environmental Data



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\* Numbers in parentheses indicate pages listed in "2024 CMK Report"



【 2024 CMK REPORT 】

## What is environmental data set ?

This booklet compiles more detailed data related to environmental information (cases and numerical data) featured in the '2024 CMK Report' (<https://www.cmk-corp.com/csr/report/>).

## Scope of Reporting

CMK CORPORATION and It's affiliated companies

### < Domestic >

#### 【 CMK CORPORATION 】

Head office  
Kawagoe office  
Shipping Center  
Niigata Factory  
Kanbara Factory  
Chichibu Factory  
Sales office (Nagoya, Osaka, Hiroshima)

#### 【 Domestic Affiliated Companies 】

CMK PRODUCTS CORPORATION



### < Overseas >

#### 【 Production Site 】

CMKC(DONG GUAN)LTD.  
CMK ELECTRONICS(WUXI)CO.,LTD  
CMK CORPORATION(THAILAND) CO.,LTD.

#### 【 Sales Office 】

CMK ASIA(PTE.) LTD.  
CMKC(HONG KONG) LIMITED.  
CMK(SHENZHEN),LTD.  
CMK EUROPE N.V.  
CMK AMERICA CORPORATION



## Reporting period

FY2023; April 1, 2023~March 31, 2024

## Contact Information for Environmental Data Set

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Environment Promotion Department  
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## Abbreviation of Group Companies' Names in this report

CMK PRODUCTS CORPORATION .....CMKP  
CMK ELECTRONICS(WUXI) CO. ,LTD.....CMKW  
CMKC (DONG GUAN) LTD. ....CMKC  
CMK CORPORATION(THAILAND) CO.,LTD.....CMKT



# 1. Activity Results for 2023



Based on our "Environmental Policy," we have formulated a "Midium -to Long-Term Environmental Action Plan" and are promoting environmental conservation activities.

To implement this action plan, we set annual targets and carry out related activities.

【Explanation of evaluation symbols: ○: Goal Achieved ; △: Partially achieved ; ×: Not achieved】

Key Issues		Goals	Major Initiatives	Result	Evaluation
1	Climate Change Mitigation	<p>【Energy Consumption】</p> <p>Reduction of Unit Energy Consumption by Over 1.5% (Compared to the Previous Year)</p>	<ul style="list-style-type: none"> <li>• Company-wide promotion of energy-saving activities</li> <li>• Promotion of productivity improvement</li> <li>• Implementation of energy-saving patrols</li> <li>• Introduction of LED lighting, thinning, and motion sensors</li> <li>• Installation of equipment considering energy-saving effects</li> <li>• Planned renewal of aging equipment and verification of effectiveness</li> <li>• Replacement plan for equipment using R-22 refrigerants</li> </ul>	<p>【Achieved】</p> <ul style="list-style-type: none"> <li>• CMK Corporation</li> <li>• CMKT</li> <li>• CMKW</li> </ul> <p>【Not Achieved】</p> <ul style="list-style-type: none"> <li>• CMKP</li> <li>• CMKC</li> </ul>	△
2	Prevention of Environmental Pollution	【Environmental Pollution Incidents: 0 cases】	<ul style="list-style-type: none"> <li>• Aiming for zero environmental pollution incidents, we will systematically carry out inspections, repairs, and updates of equipment.</li> </ul>	<p>【Achieved】</p> <p>Environmental Pollution Incidents: 0 cases</p>	○
3	Waste Reduction - Effective Utilization of Resources	<p>【Promotion of Zero Emission Activities】</p> <p>Domestic: 100% Overseas: 100%</p>	<ul style="list-style-type: none"> <li>• Thorough Implementation of Waste Separation and Collection for Waste Reduction</li> </ul>	<p>【Achieved】</p> <ul style="list-style-type: none"> <li>• Domestic: 100%</li> </ul> <p>【Not achieved】</p> <ul style="list-style-type: none"> <li>• Overseas: 99.3%</li> </ul>	△
4	Environmental Hazardous Substances (EHS) Management	【EHS-related Complaints: 0 cases】	<ul style="list-style-type: none"> <li>• We will promote EHS management activities to ensure that EHS non-conforming products are never delivered to customers</li> <li>• Compliance with delivery deadlines for customer requests related to EHS</li> </ul>	<p>【Achieved】</p> <p>EHS-related complaints : 0 cases</p>	○
5	Biodiversity Conservation	<p>【Factory Engagement Rate】</p> <p>100%</p>	<ul style="list-style-type: none"> <li>• Implementing biodiversity conservation activities closely connected to the local community.</li> <li>• Eradication of invasive species and protection of native species</li> <li>• Grass cutting around salmon spawning areas</li> </ul>	<p>【Partially unachieved】</p> <p>Factory engagement rate 86%</p>	△
6	Compliance	【Major Violations of Compliance Evaluation】 0 cases	<ul style="list-style-type: none"> <li>• Clearly defining compliance obligations and conducting compliance evaluations</li> </ul>	<p>【Achieved】</p> <p>Major violations of compliance evaluation: 0 cases</p>	○

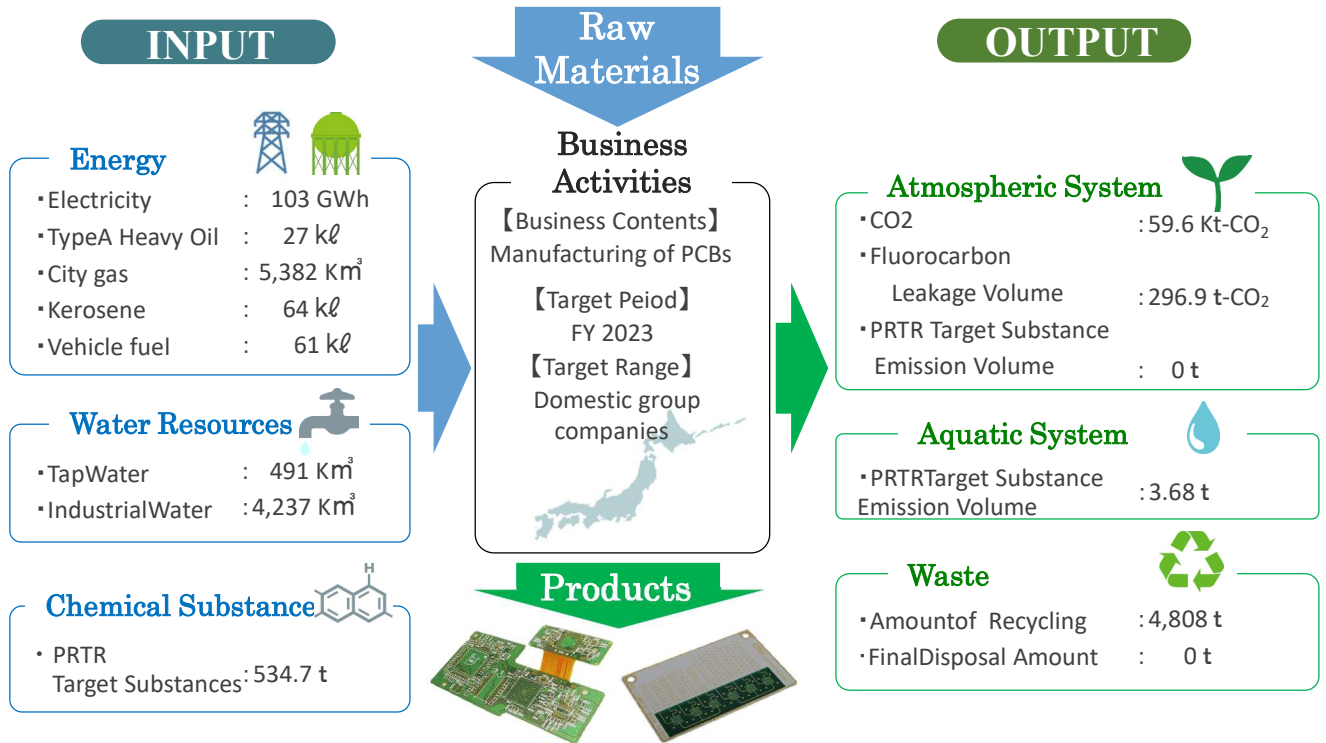
\*EHS : Environmental Hazardous Substances

# Relationship between business activities and environment

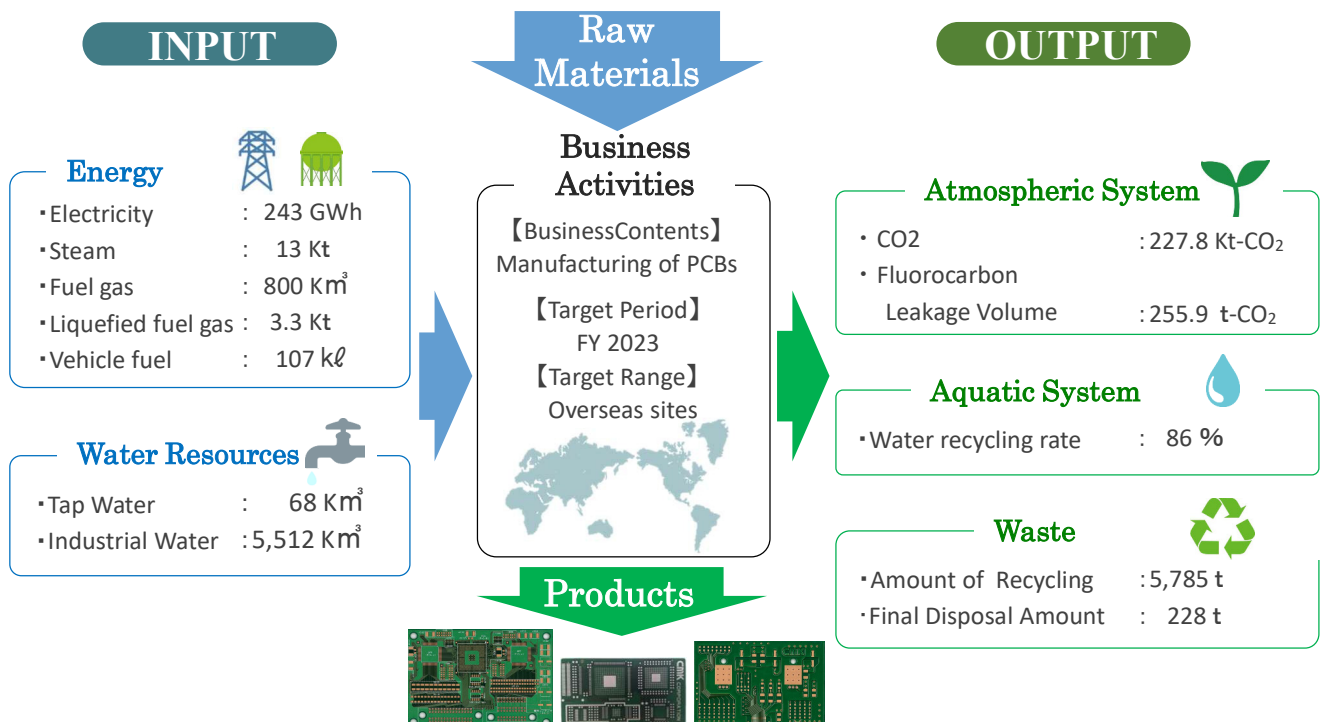


"Material balance" refers to the amount of resources and energy used (input) in the business activities that produce products, and the amount of greenhouse gases and waste generated by those activities (output). Our company accurately understands and reduces the environmental impact of our business activities, leading to effective environmental activities.

## Material Balance for FY2023 (Domestic group companies)



## Material Balance for FY2023 (Overseas sites)



## Environmental Accounting

Since 1999, We have been conducting environmental accounting based on the "Environmental Accounting Guidelines" issued by the Ministry of the Environment. As one of the indicators for evaluating environmental conservation activities, we clarify the costs associated with environmental conservation activities. We will continue to promote efficient environmental management.

### Environmental Conservation Costs in 2023

【Unit: Million JPY】

Environmental Conservation Costs	Detail		
	Equipment Costs	Maintenance costs	Total
1) Business area costs	117.2	617.8	734.9
① Pollution Prevention Costs	96.9	466.5	563.4
② Global Environmental Conservation Costs	17.7	1.9	19.7
③ Resource Circulation Costs	2.6	149.3	151.9
2) Upstream and downstream costs	0.0	0.1	0.1
3) Management activity costs	1.0	90.2	91.2
4) Research and Development Costs	0.2	1.0	1.2
5) Social Activity Costs	0.0	0.0	0.0
6) Environmental remediation costs	0.0	0.0	0.0
7) Other environmental conservation costs	0.0	0.3	0.3
<b>Total</b>	<b>118.4</b>	<b>709.3</b>	<b>827.7</b>

\*Collection period: April 2023 to March 2024 Scope: Domestic Group

【Unit: Million JPY】

FY 2023 – Monetary effect	
Actual effects from energy-saving measures	10.5
Revenue from the sale of valuable materials	955.5

【Unit: Reduction Rate (%)】

FY 2023 – Quantity effect	
CO2 Emissions	1.69% reduction

## Calculation of CO2 Emissions Contained in Printed Circuit Boards (Sold Products)

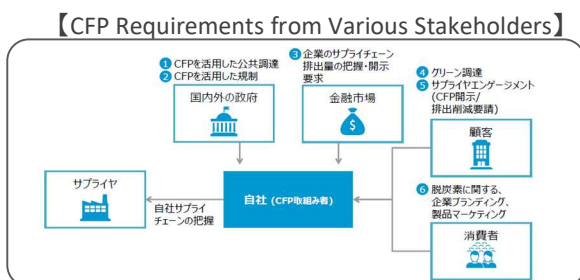
PCF(Product Carbon Footprint) refers to the calculation of GHG(Greenhouse Gas ) emissions throughout the entire lifecycle of a product of service, from raw material procurement to disposal and recycling. These emissions are converted into CO2 equivalents and calculated for each product. The goal is for business to collaborate with companies within the supply chain to promote further reductions in CO2 emissions

\*PCFis also referred to as CFP (Carbon Footprint of Product)

### PCF Trends

#### The Significance of Companies engaging in CFP

Given the growing interest in climate change issues in recent years, various stakeholders surrounding companies have begun to request that companies adopt CFPs for a variety of purposes. CFP is becoming a determining factor in a company's competitiveness.

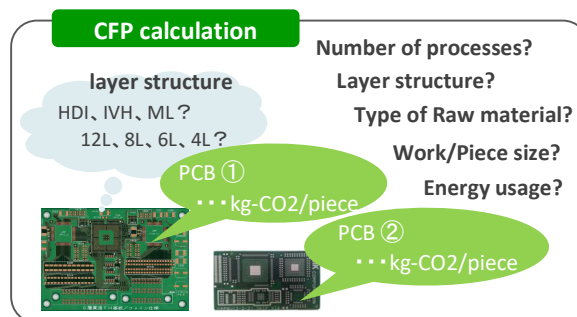


\*Source: Ministry of Economy, Trade and Industry "Trends surrounding carbon footprints toward carbon neutrality throughout the supply chain"

### Response to PCF

For printed wiring boards produced by the CMK Group, we have established procedures for visualizing power consumption and calculating PCF in order to calculate PCF. Currently, as part of a trial calculation, it is possible to calculate emissions for each board at "CMK Thai" and

We will continue to work to further improve the accuracy of the calculation data and to enable calculations at each CMK Group factory.



## 2. Responding to Climate

We recognize that environmental conservation activities are one of the important management issues and in order to clarify our basic stance, we make a medium to long-term environmental action plan based on our "Environmental Policy" and We are promoting environmental conservation activities. All of our employees are working together to realize a better society with coexisting with the earth.

### Mid-to Long-Term Environmental Action Plan : The Challenge to Carbon

"IN July 2022, we endorsed the TCFD (Task Force on Climate-related Financial Disclosures) to address climate change issues. Furthermore, to achieve our mid-term goals by 2030, we have evolved and expanded our initiative 'Smart e-change30 plus' into 'Smart e-changes Net zero,' aiming for carbon neutrality, and actively promoting it."

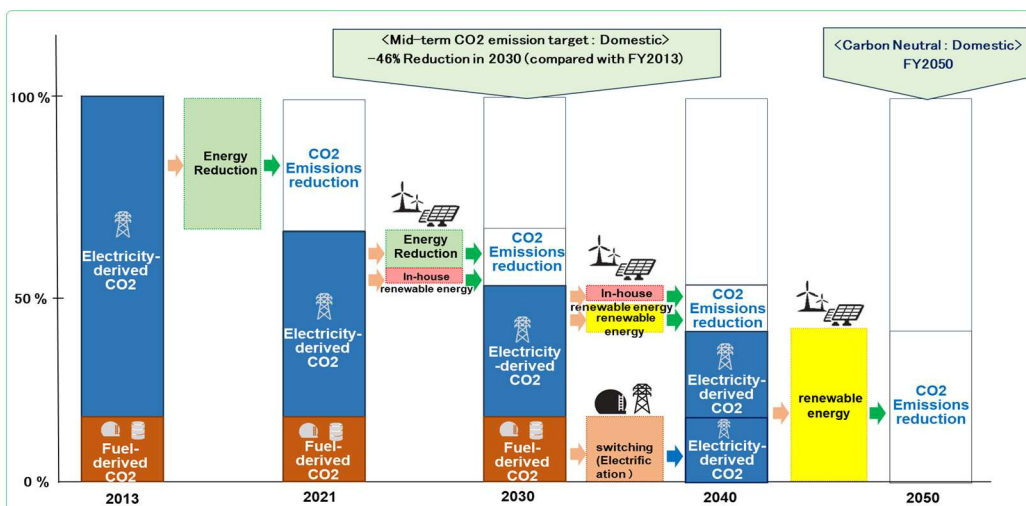


### Roadmap to Carbon Neutrality by 2050

"In order to contribute to climate change mitigation, our company is committed to achieving carbon neutrality and actively promoting initiatives aimed at reducing our own CO2 emissions."

		2023	2024	2025	2026	2027	2028	2029	2030	2040	2050	
Power Reduction	Energy saving measures (equipment renewal, etc.)	[Timeline bar from 2023 to 2050]										
	Replacement of old refrigerant air conditioner	[Timeline bar from 2023 to 2050]										
In-house renewable energy	Self-generated solar power (domestic area 1)	[Timeline bar from 2024 to 2050]										
	Self-generated solar power (domestic area 2)	[Timeline bar from 2025 to 2050]										
	Self-generated solar power (domestic area 3)	[Timeline bar from 2026 to 2050]										
Introduction of renewable energy	PPA, self-consumption, CO2-free menu	[Timeline bar from 2030 to 2050]										
others	Gas fuel equipment renewal (electrification)	[Timeline bar from 2030 to 2050]										
	Converting company cars to EVs	[Timeline bar from 2023 to 2050]										

### Image of achieving carbon neutrality (CO2 Emissions)



## "B" score in the "Climate Change Report 2023" by CDP.



CMK Corporation has been rated a "B" score in the "Climate Change Report 2023" published by CDP.

CDP is an international environmental NGO that evaluates and discloses information on strategies and initiatives aimed at climate change and greenhouse gas emission reduction for companies, local governments, and other organizations. It compiles and analyzes environmental information disclosures collected from companies and local governments around the world and rates their initiatives on an eight-level scale (A, A-, B, B-, C, C-, D, D-).



Our "B" score indicates that we are aware of and taking action on environmental risks and their impacts.

## Support for the task force and initiatives and disclosure in line with the framework



In July 2022, CMK Corporation announced its support for the TCFD, which recommends analysis and disclosure of the impact of climate change on corporate finances. (TCFD: Task Force on Climate-related Financial Disclosures)

CMK believes that assessing the risks and opportunities posed to business by climate change and disclosing appropriate information is essential to balancing future corporate growth with the creation of a sustainable society.

We are promoting and disclosing our efforts within the framework that follows the TCFD recommendations. The four core elements are "governance," "strategy," "risk management," and "metrics and targets."

## Metrics and Targets

Indicator	Targets		
	① CO2 emissions (Scope 1,2)	Mit-term targets for reducing CO2 emissions	Domestic
	Long-term targets for reducing CO2 emissions	Domestic	Carbon-neutral by 2050
② Energy consumption	Reducing energy consumption	CMK group	1% reduction in energy intensity compared to the previous year

\*For other items such as "Governance," "Strategy," and "Risk Management," please refer to the "2024 CMK REPORT."

## Calculating and disclosing GHG emissions



GHG (Greenhouse Gas) refers to gases that contribute to the greenhouse effect, including carbon dioxide (CO2), methane (CH4), nitrous oxide (N2O), and alternative fluorocarbons (HFCs, PFCs, SF6, NF3), among others.

The international standard for calculating and reporting GHG emissions, the "GHG Protocol," classifies GHG emissions across the supply chain, from the creation to the disposal of products, into three categories: direct emissions (Scope 1) generated by the company itself, indirect emissions from energy procurement such as electricity (Scope 2), and indirect emissions from other companies in the supply chain (Scope 3).

## Scope 1,2

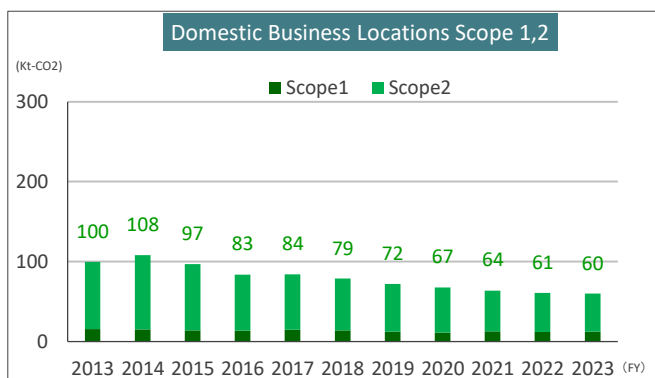


At our company, we calculate emissions using energy consumption and emission factors, and we are promoting activities to reduce them.

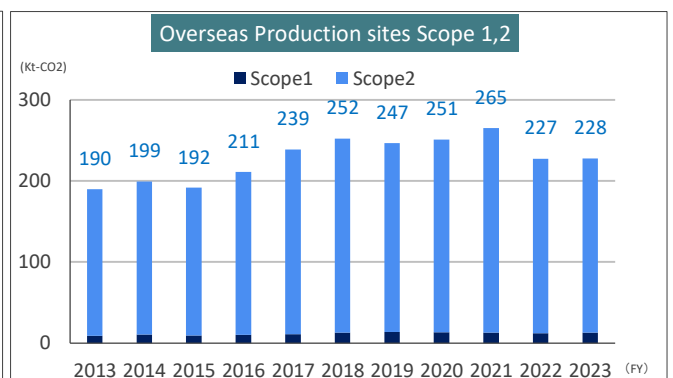
CO2 emissions from our domestic business sites in FY2023 were 60Kt-CO2.

(A decrease of 1.8% compared to the previous fiscal year and a 40% decrease compared to FY2013)

CO2 emissions from our overseas business sites in FY2023 were 228Kt-CO2.



\*Domestic business locations include affiliated company CMK Products

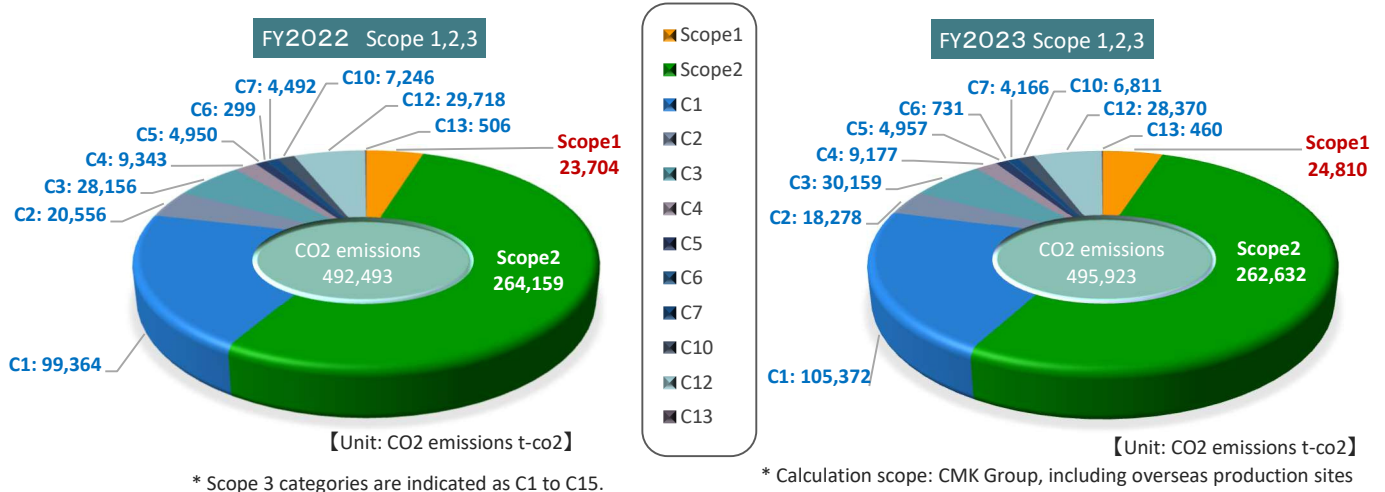


\*Calculation for overseas production sites: CMK T, CMK W, CMK C, Sales Office

# Emissions from Supply Chain (Scope 3)



"We believe that to advance decarbonization towards carbon neutrality, efforts across the entire supply chain are necessary beyond individual company initiatives. The CMK Group is also working with its business partners to calculate and disclose supply chain emissions (Scope 3). From fiscal year 2023, the calculation scope for Scope 3 now includes overseas business sites.



\* Scope 3 categories are indicated as C1 to C15.

\* Calculation scope: CMK Group, including overseas production sites

## More about Scope3

【CO2 Emissions: : t-CO2】

区分	Scope3 Category	Calculation target	Calculation method	FY2022	FY2023
Upstream	1	Purchased product/service	Emissions in production procedures of materials,parts, purchased products,materials related to sales,etc	99,364	105,372
	2	Capital goods	Emissions along with in-house construction/production of capital goods	20,556	18,278
	3	Activities related to fuels and energy outside Scope 1,2	① Emissions along with procurement of fuels from outside emissions along with procurement of necessary fuel for power generation for electricity from outside	28,156	30,159
	4	Transport/Deliverly (Upstream)	① Emissions along with logistic(transport,cargo, handling,storage),of products/service from suppliers to CMK purchased in the fiscal year ② Emissions along with logistic service transport, cargo handling,storage)(whose cost CMK pays) of those purchased except ① in the fiscal year to report	1,679	2,555
	5	Waste from operations	Emissions along with transport/disposal of in house waste	4,950	4,957
	6	Business trip	① Transportation(Airplane,ship, railway,bus,taxi, owner-driver car)	299	731
	7	Employee Commuting	② Accomodation expenses expenses or number of nights) Transportation(Railway, bus,owner-driver car) covered by commuting allowance	4,492	4,166
	8	Lease Assets (Downstream)	Emission along with operation of lease assets of CMK's (except for casescalculated in Scope 1,2)	-	-
Downstream	9	Transport/Delivery (Downstream)	Emissions along with logistics(transport,cargo handling,storage,sales)(only those of which we do not pay for)or products sold by us to reach customers	-	-
	10	Processing of sold products	Emissions along with processing by other businesses(valuables in emissions which are sent out)	7,246	6,811
	11	Lease assets (Downstream)	Emissions along with usage of sold products by users(consumers/businesses)	-	-
	12	Disposal of sold product	Emissions along with disposal of sold products by users(consumers/businesses)	29,718	28,370
	13	Lease assets (Downstream)	Emissions along with renting lease assets	506	460
	14	Franchise	Emissions by franchisee	-	-
	15	Investment	Emissions along with investment activities	-	-

\*DB 3.2: Emission factor database for calculating greenhouse gas emissions through the supply chain (Ver. 3.2).

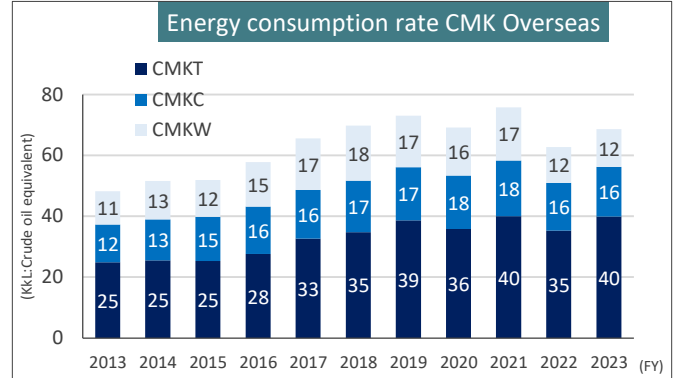
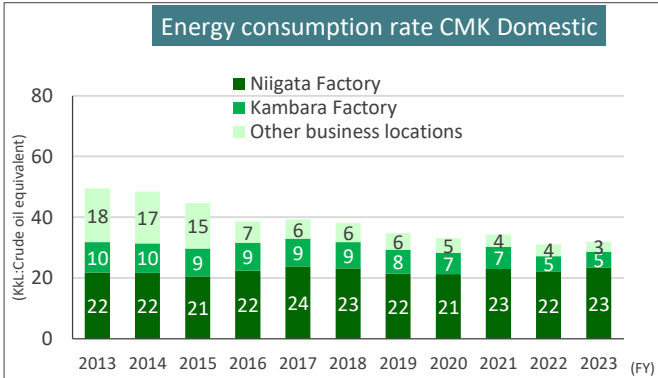
\*IDEAv2: IDEA (Inventory Database for Environmental Analysis) Database Excel version (used for calculating supply chain greenhouse gas emissions).

\*For the calculation of purchased products and services, estimates were made using data from a specific period for key raw materials.





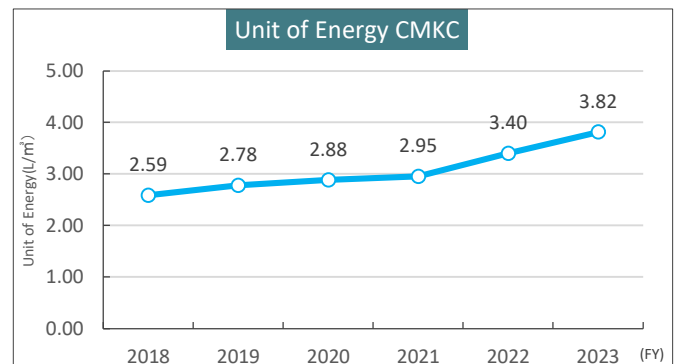
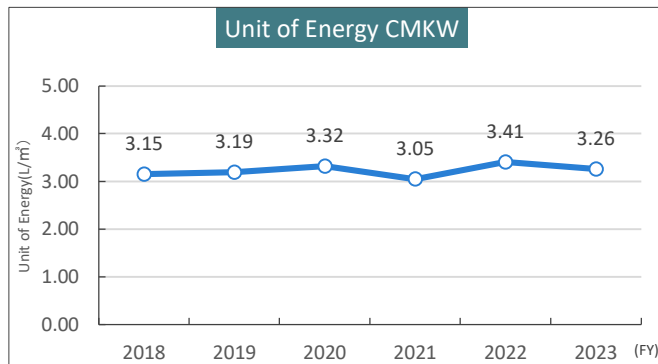
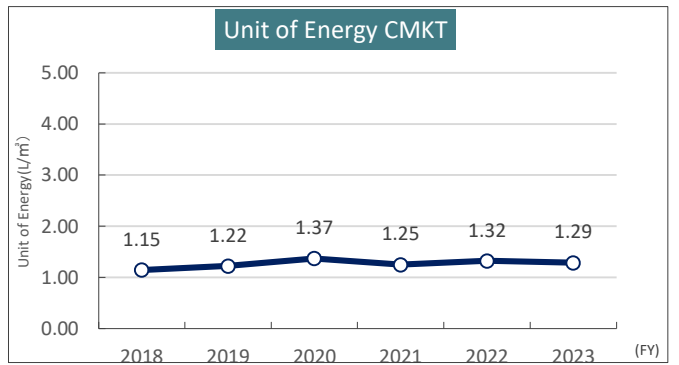
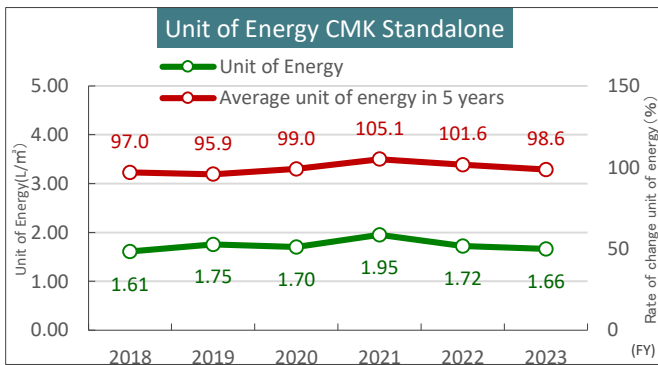
The CMK Group is working on monitoring and reducing energy consumption. Below is a summary of the trends in energy usage at our domestic and overseas offices.



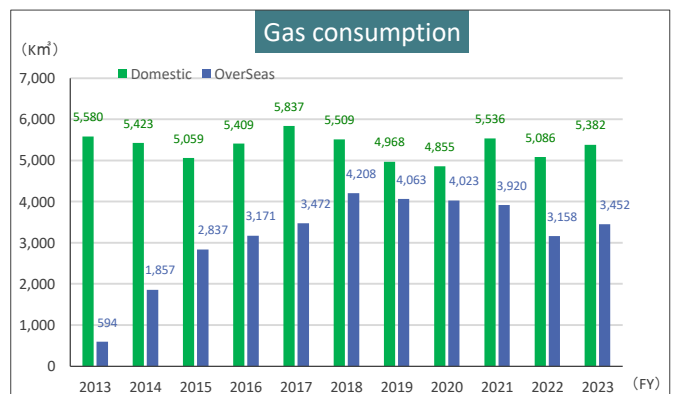
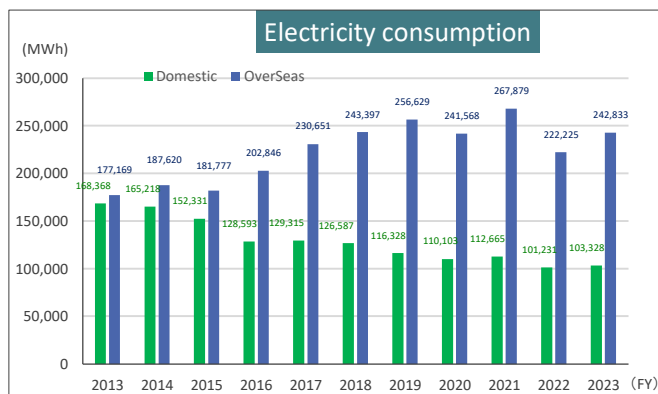
## Trend in energy intensity

The CMK Group monitors energy intensity as one of the key indicators for reducing energy consumption and CO2 emissions.

Additionally, for our domestic offices, we calculate and monitor the trend of the 5-year average energy intensity, which is one of the indicators under the Energy Conservation Act.



\*For overseas offices, due to issues with historical data, the trend of the 5-year average energy intensity is not provided.





At the CMK Group, we are prioritizing energy reduction activities in order to reduce CO2 emissions. We are actively promoting measures such as reducing the load on air conditioning systems, switching to LED lighting and installing motion sensors, and updating aging equipment to energy-saving types.

### Response to fluorocarbons

To prevent fluorocarbon leakage, we conduct regular inspections based on the 'Fluorocarbon Emission Reduction Law,' including simplified inspections and periodic inspections by specialized agencies. Additionally, we are transitioning to alternative refrigerants as part of the phase-out of ozone-depleting hydrochlorofluorocarbons (HCFCs) such as R-22 refrigerant.

\*The reporting of Freon leakage under the 'Freon Emission Control Law': Companies are required to report to the government if there is an annual leakage of 1,000 tons of CO2 equivalent or more at the corporate level.

### Reduction record of R-22 refrigerant

As part of a three-year plan to completely phase out the use of R-22 refrigerant, we are switching to energy-saving air conditioners that use refrigerants with less environmental impact. In fiscal year 2023, we reduced approximately 0.9 tons of R-22 refrigerant. This equates to a reduction of approximately 1,600 tons in CO2 emissions.

Amount of refrigerant recovered	Quantity	CO2 equivalent value
	【Unit: t】	【Unit: t-CO2】
FY2022	0.5	900
FY2023	0.9	1600

By switching to refrigerants with less environmental impact, and at the same time updating aging and energy-inefficient air conditioners to the latest energy-saving models, it is possible to reduce energy consumption, including electricity.

The handling of refrigerants during the disposal of air conditioning equipment is carried out by qualified personnel in accordance with regulations. Additionally, after the refrigerants are recovered, they are properly processed through destruction by registered contractors.



### Summer Energy Conservation

Through activities that can be easily done in everyday life, we are raising awareness among

Energy demand for air conditioners increases in the summer. As part of our summer initiative, we are working to set air conditioning to 28°C in offices where it does not affect product quality, based on national guidelines.



In order to reduce energy consumption and maintain health, we are extending the period during which employees are required to wear light clothing before and after the Cool Biz campaign. This maintains a comfortable working environment.



### Environmental considerations for sales vehicles

As part of our efforts to reduce CO2 emissions from vehicles used by the sales department, we are promoting the use of public transportation for business travel. This allows us to determine the appropriate number of vehicles and own only the number we need, thereby reducing unnecessary CO2 emissions.



We are moving away from gasoline-engine vehicles that are powered only by internal combustion engines (ICE) and are introducing hybrid electric vehicles (HEV) and battery electric vehicles (BEV). By actually using these vehicles,



## Environmental Initiatives Exhibition

CMK Corporation also exhibits panels related to "environmental efforts" at external exhibitions.

We exhibited at the 37th NEPCON JAPAN, held at Tokyo Big Sight from January 25th to 27th, 2024.

The exhibits at our booth introduced cutting-edge in-vehicle equipment and printed circuit board technologies that enable IoT applications, along with a number of actual products.

The photos featured are of the exhibition panels related to our "Environmental Initiatives."



## In-house environmental education

In order to realize a sustainable society, the CMK Group believes it is important for each employee to deepen their knowledge of environmental issues and understand the impact that their daily work and personal actions have on the environment.

As part of our environmental education and awareness activities, we provide employee training by rank and department to promote environmental initiatives within the company. We explain key environmental issues, the importance of addressing climate change and the significance of environmental management systems.



Additionally, we introduce the environmental themes of each business location—such as energy conservation, waste reduction and recycling, and efficient use of water resources—as well as basic unit and CO<sub>2</sub> reduction targets.

In fiscal 2023, we held lectures on environmental laws and regulations by in-house lecturers for managerial employees.

## Energy conservation measures

The CMK Group is systematically promoting energy conservation measures by incorporating employee suggestions and energy conservation diagnostics from external experts. This approach enables us to implement effective measures such as equipment tuning and efficiency improvements.

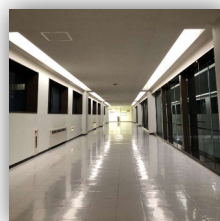
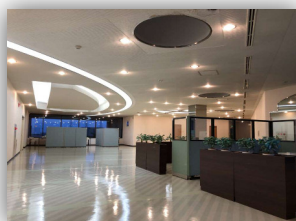
[Production equipment, Utility equipment]

We are proactively upgrading aging equipment to reduce energy consumption.

When introducing new equipment, our policy prioritizes not only improved production efficiency but also energy conservation, including electricity savings.

[Measures for buildings, lighting, and air conditioning systems]

In addition to switching to LED lighting, we have installed motion sensors in low-traffic areas. We are also promoting initiatives to minimize energy use, such as applying window films in factories to reduce the load on air conditioning systems.



## Public awareness initiatives for energy reduction



Within CMK, we display educational posters and establish environmental corners to actively promote awareness among employees.





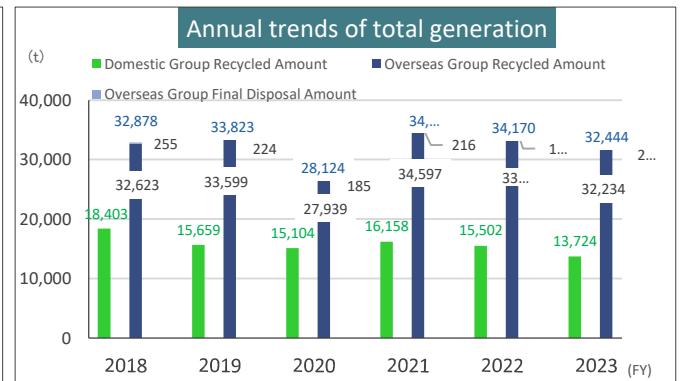
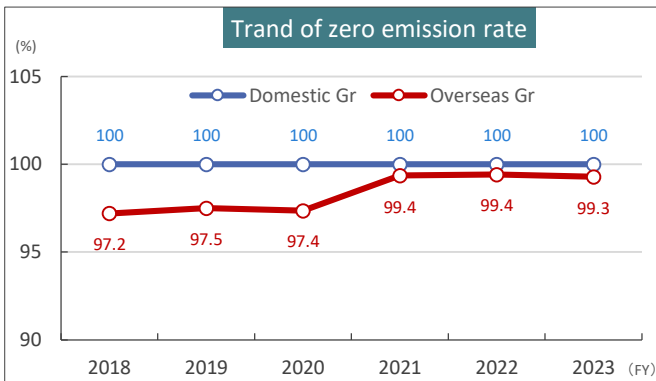
### 3. Waste reduction / Efficient resource use



At the CMK Group, we define zero emissions as "eliminating the waste sent to landfills," and we are working towards achieving this goal.

#### Initiatives for zero emissions

In fiscal year 2023, our domestic group generated a total of 13,724 tons of waste and valuable materials, maintaining a zero emissions rate of 100%. Our overseas group generated 32,444 tons, achieving a zero emissions rate of 99.3%. While the locations of our overseas factories influence these results, we continue actively promoting initiatives toward zero emissions. CMKC and CMKW have already achieved this goal.



\*From this data collection, copper recovery at CMKT has been counted (corrected retroactively to 2019).

#### Definition of Zero emissions 1

- To reduce the amount of waste directly disposed of in landfills to zero.
- Achievement is recognized when a 100% zero-emission rate is consistently maintained.
- The amount of landfill disposal for residual waste from intermediate processing delegated to contractors is not included.

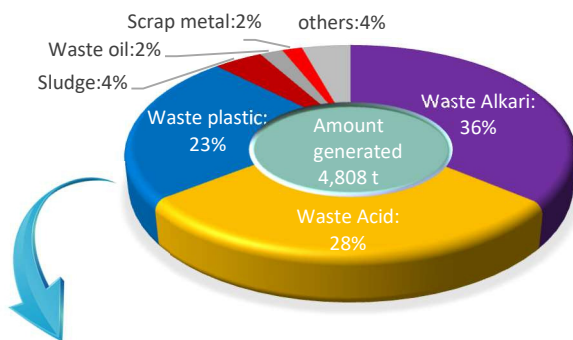
#### Definition of Zero emissions 2

- Reutilization Amount: The quantity of waste and valuable materials that are recycled.
- Final Disposal Amount: The quantity of waste that is disposed of in landfills.
- Total Generation Amount: The sum of the final disposal amount and the reutilization amount.

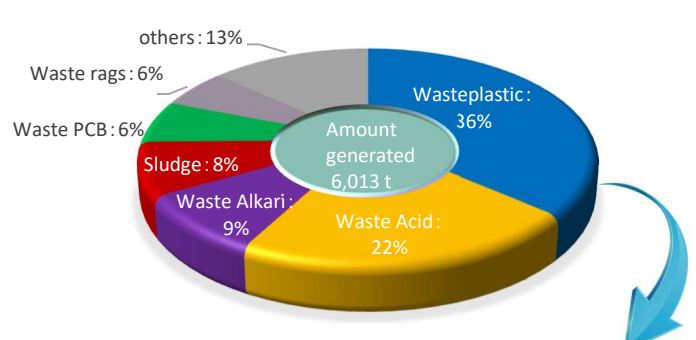
#### Amount of generated waste

The CMK Group follows the "Waste Management Act" at its domestic facilities, conducting proper sorting, collection, and intermediate processing in accordance with the regulations. Similarly, at overseas facilities, we manage and process waste in compliance with the regulations and rules of the host country or region.

#### Domestic Group Breakdown of Waste Generation



#### Overseas Group Breakdown of Waste Generation



## Resource Saving Activity

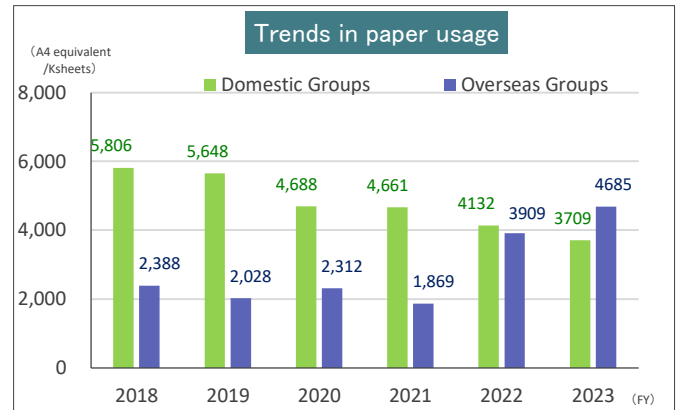
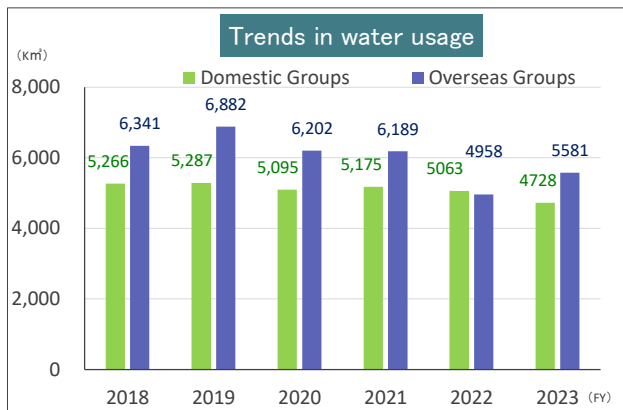


In the CMK Group, we actively engage in resource-saving activities, believing that efficient use of limited resources and efforts to eliminate resource waste contribute to waste reduction. We are committed to promoting resource conservation, recognizing its positive impact on minimizing waste.

### Water and Paper resources

We actively promote the effective use and reduction of water resources and paper resources in the CMK Group. In our efforts to utilize water resources efficiently and reduce consumption, we have introduced water recycling devices and incorporated water-saving features into our production facilities. Additionally, at overseas factories, we implement recycling activities as a measure to address water resource risks.

Recycled volumes for fiscal year 2023 were: CMK T: 308,000 m<sup>3</sup>, CMK W: 240,000 m<sup>3</sup>, and CMK C: 209,000 m<sup>3</sup>.

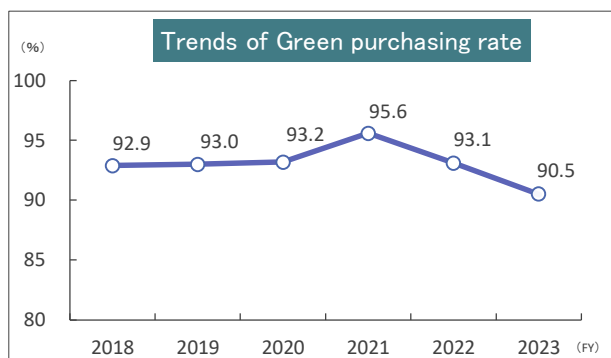


### Green Purchasing Initiative

In our company, the procurement of environmentally friendly office supplies is categorized as 'Green Purchasing,' and we actively promote the purchase of environmentally conscious office materials.

We have also established 'Green Purchasing Guidelines' to guide our procurement practices, and we assess our purchasing achievements based on these guidelines.

The green purchasing rate in fiscal year 2023 was 90.5%.



#### Criteria for Green Purchasing

- ① Certification by official environmental such as the Eco Mark
- ② Items featured in catalogs and other materials as environmentally friendly products
- ③ Exceptions recognized by our company, excluding those

#### Target Items

- Paper
- Printed materials
- Office furniture
- Automobiles
- Stationery
- Computers • Office Automation equipment
- Other office supplies

\*Green Purchase Ratio: The percentage of the total purchase amount for stationery and paper accounted for by the purchase of green product, including Those with the Eco Mark.



## 4. Management Environmental Hazardous Substances



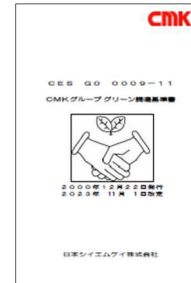
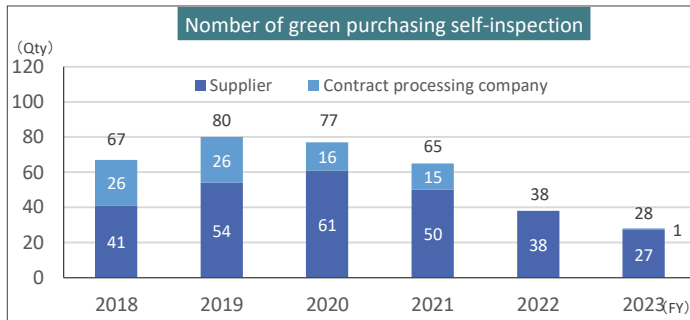
In the CMK Group, we define and manage chemicals that can impact the global environment and human health as 'EHS' based on domestic and international regulations, customer requirements, industry standards, and other relevant criteria.

\* EHS : Environmental Hazardous Substances

### Green Purchasing Activity



Annually, we conduct a green procurement survey using a self-assessment tool with our business partners.

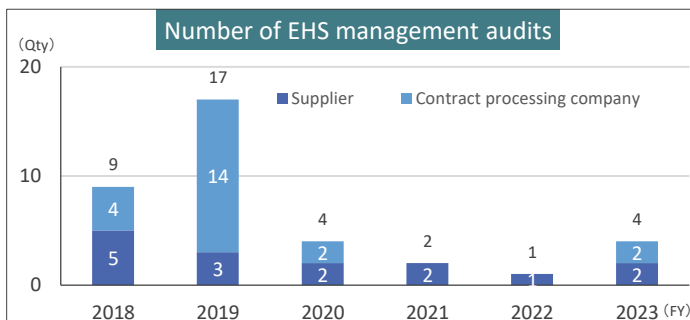


【 Green Procurement Guideline 】

### EHS Management Certification System



Based on the results of the Green Purchasing Survey, we conduct EHS management audits. As a result of the audits, business partners with high overall assessment scores are certified as 'CMK Green Partners'.



【 Environmental Compliance Certificate 】

### Response Status to Customer Requirements



We respond to environmental surveys received from customers. In the fiscal year 2023, the inquiries directed to the environmental contact point totaled 1,019.

【Unit: number of cases】

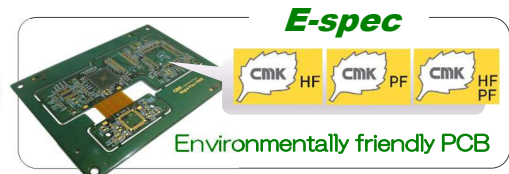
Trend in Inquiry Numbers						
Subject	2018	2019	2020	2021	2022	2023
Use and Content of Environmental Impact Substances	815	936	1,052	866	939	882
ISO14001 Certification	17	13	34	17	12	22
Green Procurement	138	162	106	129	137	112
CO2	-	-	-	-	1	25
CSR Survey	19	15	19	19	27	29
Others	24	16	8	14	23	20
<b>Total</b>	<b>1,013</b>	<b>1,142</b>	<b>1,219</b>	<b>1,045</b>	<b>1,139</b>	<b>1,090</b>

### Environmentally friendly PCB



At CMK, we designate products that meet environmental standards as "E-spec" and engage in efforts to reduce the environmental impact through the supply of our products.

\*E-spec mark: Trademark registered in August 2000



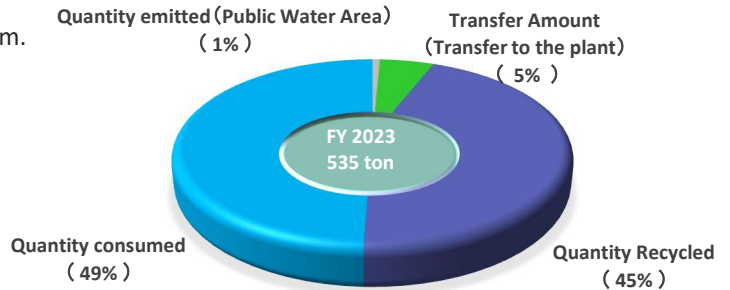
# Response to the PRTR System



Since 1998, our company has been tracking and disclosing the emissions and transfers under the PRTR (Pollutant Release and Transfer Register) system.

## Emissions and Transfers of PRTR designated substance

\*PRTR (Pollutant Release and Transfer Register)  
Law on the Promotion of Understanding and Improvement of the Management of Releases of Specific Chemical Substances to the Environment



## Fiscal Year 2023 PRTR System Data by Substance

In the fiscal year 2023, we reported on the transfers and emissions of 10 substances.

[Unit:t]

Cabinet Order Number	Substance Name	Qty handled	Qty emitted			Transfer amount		Qty recycled	Qty consumed
			atmosphere	Public Water Area	Soil	Sewerage	Outside facilities		
20	2-aminoethanol	8.21	0.00	0.00	0.00	0.00	1.29	0.00	6.91
272	Copper salts(water-soluble, except complex salts)	339.77	0.00	0.57	0.00	0.04	18.04	224.53	96.59
395	Water-soluble salts of peroxodisulfuric acid	153.92	0.00	0.00	0.00	0.00	0.00	0.00	122.73
405	Boron compounds	1.14	0.00	0.05	0.00	0.00	0.00	0.00	1.09
411	Formaldehyde	21.34	0.00	0.53	0.00	0.03	2.30	0.00	18.48
412	Manganese and its compounds	1.48	0.00	0.00	0.00	0.00	1.48	0.00	0.00
580	Alpha-alkyl-omega-hydroxypoly(oxyethylene) (Alkyl groups having 9 to 11 carbon atoms and mixtures thereof, limited to those with a number average molecular weight of less than 1,000)	1.76	0.00	1.76	0.00	0.00	0.00	0.00	0.00
595	Ethylenediaminetetraacetic acid and its potassium and sodium salts	2.30	0.00	0.70	0.00	0.00	1.60	0.00	0.00
627	Diethylene Glycol Monobutyl Ether.	1.77	0.00	0.00	0.00	0.00	1.77	0.00	0.00
682	1,3,5-triazine-2,4,6-triamine	3.01	0.00	0.00	0.00	0.00	0.07	0.00	2.94
Total		534.70	0.00	3.62	0.00	0.06	26.54	224.53	248.75

## Fiscal Year 2023 PRTR System Data by Facility

[Unit:t]

Cabinet Order Number	Substance Name	Qty handled	Qty emitted			Transfer amount		Qty recycled	Qty consumed
			atmosphere	Public Water Area	Soil	Sewerage	Outside facilities		
<b>Niigata Factory</b>									
20	2-aminoethanol	1.51	0.00	0.00	0.00	0.00	0.00	0.00	6.70
272	Copper salts(water-soluble, except complex salt)	11.92	0.00	0.23	0.00	0.00	2.17	5.36	4.15
395	Water-soluble salts of peroxodisulfuric acid	59.98	0.00	0.00	0.00	0.00	0.00	0.00	28.79
405	Boron compounds	1.14	0.00	0.05	0.00	0.00	0.00	0.00	1.09
411	Formaldehyde	12.33	0.00	0.49	0.00	0.00	0.00	0.00	11.83
412	Manganese and its compounds	1.04	0.00	0.00	0.00	0.00	1.04	0.00	0.00
<b>Kanbara Factory</b>									
20	2-aminoethanol	1.51	0.00	0.00	0.00	0.00	1.29	0.00	0.22
272	Copper salts(water-soluble, except complex salt)	301.05	0.00	0.34	0.00	0.00	13.86	204.64	82.21
395	Water-soluble salts of peroxodisulfuric acid	93.95	0.00	0.00	0.00	0.00	0.00	0.00	93.95
411	Formaldehyde	6.48	0.00	0.04	0.00	0.00	0.19	0.00	6.25
580	Alpha-alkyl-omega-hydroxypoly(oxyethylene) (Alkyl groups having 9 to 11 carbon atoms and mixtures thereof, limited to those with a number average molecular weight of less than 1,000)	1.76	0.00	1.76	0.00	0.00	0.00	0.00	0.00
595	Ethylenediaminetetraacetic acid and its potassium and sodium salts	2.30	0.00	0.70	0.00	0.00	1.60	0.00	0.00
627	Diethylene Glycol Monobutyl Ether.	1.77	0.00	0.00	0.00	0.00	1.77	0.00	0.00
682	1,3,5-triazine-2,4,6-triamine	3.01	0.00	0.00	0.00	0.00	0.07	0.00	2.94
<b>CMKP</b>									
272	Copper salts(water-soluble, except complex salt)	26.81	0.00	0.00	0.00	0.04	2.01	14.53	10.23
411	Formaldehyde	2.53	0.00	0.00	0.00	0.03	2.11	0.00	0.39

\*The Chichibu Factory and Shipping Center are not subject to the notification.

\*The totals may not match due to rounding.

\*The Niigata Factory : The water-soluble salt waste liquid of peroxodisulfuric acid (395) is treated at a waste water treatment plant, so all amounts other than the composition consumption are "0."

\*Ferric chloride is no longer subject to the Chemical Substances Control Law due to the revision of the Chemical Substances Control Law ordinance in October 2021, and has been excluded from the information provided.



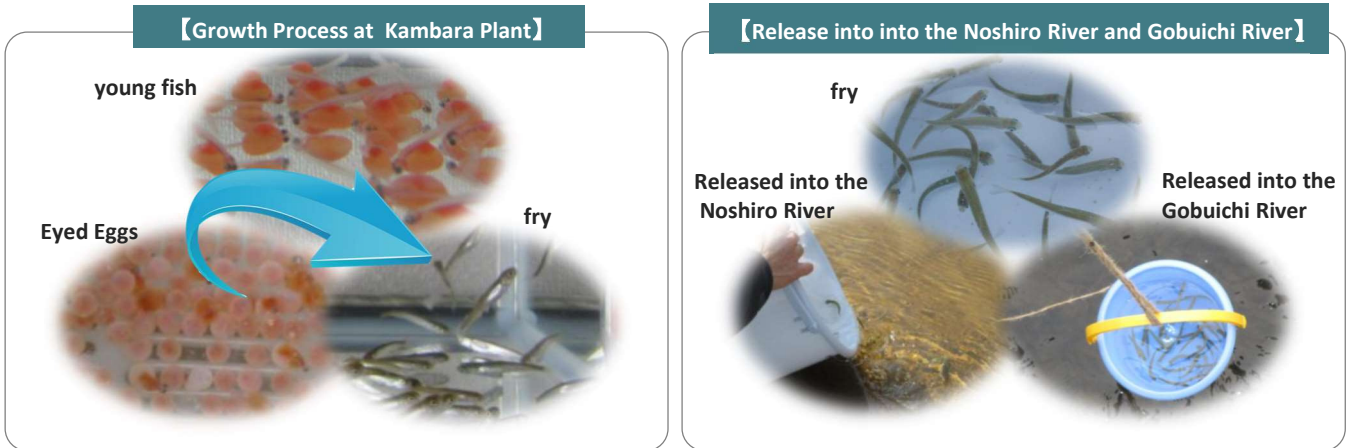
## 5. Biodiversity Conservation



As part of our biodiversity conservation efforts rooted in the local community, we collaborate with local administrations, volunteer organizations, and other stakeholders around each facility.

In the Gunma region, we worked to eradicate invasive species and protect native species.

At our Kambara Plant in the Niigata region, we have been communicating with the Noshiro River Salmon and Trout Fisheries Association for over 10 years. In fiscal year 2023, we continued to raise young fish hatched from salmon eggs and release them into the Noshiro River and Gobiuchi River, where salmon migrate upstream.



## 6. Environmental Pollution Prevention



The CMK Group incorporates environmental risk assessments as part of its preventive measures against environmental pollution incidents. Under our environmental management system, we continuously monitor updates and revisions to laws and regulations to ensure compliance with the latest requirements in our business operations. At the same time, we regularly review our compliance status and take corrective and preventive actions if any deficiencies are found, always prioritizing legal compliance in our activities.



### Environmental Management System



CMK Group has obtained ISO 14001 certification

#### List of Certifications obtained

Company Name	Facility Name	Standard	Registration Date	Date of Initial Certification
CMK CORPORATION	Niigata Factory	ISO14001:2015	2005-12-22	1999-08-25
	Kanbara Factory			2002-12-13
	Chichibu Factory	ISO14001:2015	2004-09-10	2004-09-10
CMK PRODUCTS CORPORATION	Main plant, Plant1, Plant2	ISO14001:2015	1999-12-01	1999-12-01
CMKC (DONG GUAN) LTD.	Factory	ISO14001:2015	2021-01-18	2003-12-30
CMK ELECTRONICS(WUXI) CO.LTD.	Factory	ISO14001:2015	2004-11-11	2004/11/11
CMK CORPORATION (THAILAND) CO.,LTD	Factory	ISO14001:2015	2008-01-25	2008-01-25





## 7. Environmental Impact Data for Business Locations



Plant Name	Energy-related			Waste-related		Resource-related	
	CO2 Emissions	Electric energy consumption	Thermal energy consumption	Zero emission rate	Total generation quantity	Water consumption	Paper usage
	t-CO <sub>2</sub>	K kWh	Crude oil equivalent kl	%	t	K m3	K sheets (A4 equivalent)
Niigata Factory	43,713	73,095	5,060	100%	7,064	4,188	2,536
Kanbara Factory	9,981	18,405	729	100%	3,392	439	93
Shipping Center	1,425	3,471	27	100%	254	6	263
Chichibu Factory	144	356	2	100%	24	0.3	75
CMKP	3,538	7,631	290	100%	3,010	95	741
CMKT	160,093	145,942	2,358	98.6%	10,215	4,834	3,085
CMKC	35,924	54,836	2,118	100%	8,713	443	893
CMKW	26,674	41,849	1,627	100%	5,636	304	708

Plant Name	Water Quality Measurement Results						
	pH	BOD	COD	SS	n-hexane (Mineral oils)	n-hexane (Animal and vegetable oils)	Coliform bacteria count
	-	mg/l	mg/l	mg/l	mg/l	mg/l	pc/cm <sup>3</sup>
Niigata Factory	7.5 (5.8~8.6)	28 (30)	24 (30)	7 (30)	<1 (5)	<1 (30)	310 (3,000)
Kanbara Factory	7.4 (6~8.3)	20 (45)	25 (50)	2 (10)	<2 (3)	<2 (25)	<30 (1,500)
Shipping Center	7.5 (6~8.4)	3 (20)	2.3 (35)	1 (30)	1 (4)	- (Measured together with mineral oils)	100 (1,000)
Chichibu Factory	N/A						
CMKP	8.0 (6.0~8.4)	9.2 (≤250)	-	2.1 (≤250)	-	-	-
CMKT	7.4 (5.5~9.0)	29 (≤500)	112 (≤750)	30 (≤200)	-	<3 (≤10)	-
CMKC	8.2 (6~9)	-	42 (50)	16 (30)	1.21 (2)	-	-
CMKW	7.79 (6~9)	-	27.25 (50)	3.94 (30)	-	-	-

\*The water quality measurement values are reported as maximum values / the values in parentheses represents internal standards.

Plant Name	Atmospheric Measurement Results					
	Specific Facility Name			Specific Facility Name		
	NOx	SOx	Particulate matter	NOx	SOx	Particulate matter
Niigata Factory	Steam boiler* Chilled water genelator			-		
	35vol ppm (58)	-	-	-	-	-
Kanbara Factory	Absorption chiller R-1-2			Absorption chiller R-1-3		
	23cm3/m3 (40)	<0.0039Nm3/h (15.92)	<0.0047g/Nm3 (0.03)	26cm3/m3 (40)	<0.0054Nm3/h (15.92)	<0.0051g/Nm3 (0.03)
Shipping Center	Boiler equipment A-1-HB-1			Boiler equipment A-1-HB-2		
	56vol ppm (180)	0.004m3/h (8.78)	0.235g/m3 (5.0)	59volppm (180)	0.004m3/h (8.78)	1.16g/m3 (5.0)
Chichibu Factory	N/A					
CMKP	N/A					
CMKT	Boiler			-		
	2.8ppm (200)	-	1.87mg/m3 (320)	-	-	-
CMKC	Steam boiler(B-16)			Boiler(B-17)		
	116mg/m3 (200)	5mg/m3 (20)	12.4mg/m3 (20)	85mg/m3 (200)	11.3mg/m3 (50)	11.3mg/m3 (20)
CMKW	Boiler			-		
	21.126mg/m3 (50)	0mg/m3 (50)	1.2333mg/m3 (20)	-	-	-

\*The atmospheric measurements values are reported as maximum values / the values in parentheses represents internal standards.