

2015

Environmental Data



CMK
CMK CORPORATION

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Applicable Companies

CMK CORPORATION
and affiliated companies

Domestic Group

CMK CORPORATION

[Production Centers]

- G Station Factory
- KIBAN Center Factory
- Niigata Factory
- Kanbara Factory
- Chichibu Factory

[Non-production Centers]

- Head Office
- SE Center
- Technical Center Factory
- Sales Offices (9)

Domestic Affiliated Companies

- CMK PRODUCTS CORPORATION

Overseas CMK Group

[Production Centers]

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

[Non-production Centers]

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

Environmental Data Compendium

The Environmental Data compendium presents environmental information that was omitted from the CSR Report 2015 due to space restrictions, such as statistical data and the descriptions of programs and initiatives.

Inquiries regarding Environmental Data

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Applicable Period

2014

**From April 1, 2014
through March 31, 2015**

Some activities that are likely to continue are included with activities for 2015.

Where to find information corresponding to the text of the Ministry of the Environment's Environmental Reporting Guidelines (2012 version)

Environmental Report Entries

Corresponding page (s)
in CSR Report 2015

Corresponding page (s)
in Environmental Data 2015

1. Key Requirements for the Environmental Report

1	Key Requirements for the Environmental Report		
(1)	Scope of Applicable Organizations and Applicable Period	1	1
(2)	Capture Rate for Target Range and Differences in Applicable Periods	1	–
(3)	Reporting Policy	1,8	–
(4)	Publication Media Policy	1,Back cover	1
2	Foreword by Management	2	–
3	Overview of environmental reporting		
(1)	Outline of Environmental Management	5,6,16	–
(2)	List of KPI in Chronological Order	17	4,5,8,10
(3)	Overview of Individual Environmental Issues	12	3
4	Material Balance	13	–

2. Information and Indicators for Environmental Management

1	Environmental Policy, Vision and Business Strategies		
(1)	Environmental Policy	11,12,16	–
(2)	Important Issues, Vision and Business Strategies	12	3
2	Organizational Structure and Governance		
(1)	Organizational Structure of Environmental Management	11	–
(2)	Structure of Environmental Risk Management	–	–
(3)	Compliance with environmental regulations	14	9
3	Responses to Stakeholders		
(1)	Responses to Stakeholders	15,16,18	10
(2)	Community environmental initiatives	18	9
4	Environmental Initiatives in the Value Chain		
(1)	Environmental Policies and Strategies in the Value Chain	–	–
(2)	Green purchasing or procurement	15,16	8
(3)	Products and services that help minimize environmental impact	16	–
(4)	New Environmental Technologies and R&D	–	–
(5)	Environmentally-friendly transportation	–	8
(6)	Environmental Resource and Real estate development, Investment	–	–
(7)	Environmental disposal of refuse and recycle	17	5

3. Information and Indicators for Environmental Initiatives and Environmental Impact of Business Activities

1	Resources and Energy Input		
(1)	Total energy input and strategies for reduction	–	4
(2)	Total material input and strategies for reduction	13	–
(3)	Water consumption and strategies for reduction	13	5,11
2	Recycling of Resources	–	–
3	Products / Productions and Emissions of Environmental Impact		
(1)	Total Production and Sales Volumes	–	–
(2)	Amount of greenhouse gas emissions and reduction measures	13,17	4,11
(3)	Total liquid emissions and strategies for reduction	13	11
(4)	Air pollution, its environmental impact on the living environment, and reduction measures	13	6,11
(5)	Amount of release and transfer of chemical substances and reduction measures	13,17	6
(6)	Total waste output and final waste disposal volumes and strategies for reduction	13,17	5
(7)	The amount of leakage and preventive measures, such as a toxic substance	14	–
4	Biodiversity Protection and Use of Sustainable Biological Resources	18	9

4. Information and Indicators for Economic and Social Aspects of Environmental Management

1	Economic Aspects of Environmental Management		
(1)	Economic Aspects for Business Operators	13	–
(2)	Economic Aspects for Society	–	–
2	Social Aspects of Environmental Management	7,9,21,23,24,25,26,27,28	–

5. Other Entries

1	Subsequent Events	–	–
2	Third Party Review of Environmental Information	–	–

Results of Environmental Activities in FY 2014 and Targets for FY 2014

At CMK, we have formulated the CMK Group Environmental Protection Activity Program, which outlines the targets for annual environmental activities, based on the Environmental Policy and the General Environmental Policy. The entire Group tackles environmental activities in accordance with this Activity Program.

Explanation of evaluation symbols ○: Target reached ○: Target nearly reached △: Target partially unaccomplished × : Not included

Classification of activity		Activity theme	Target for FY 2014	Evaluation
1	Management activity	Maintenance and administration of ISO 14001	<ul style="list-style-type: none"> ISO 14001 maintenance and management; performance improvements Periodic implementation of internal EMS audits 	○
		Implementation of environmental accounting	<ul style="list-style-type: none"> Implemented environmental accounting at domestic group companies 	○
		Abidance by environmental laws	<ul style="list-style-type: none"> Continued use of environmental legal and regulatory checklists Survey to check the status of compliance with the Clean Production Standard of China 	○
		Implementation of environmental education	<ul style="list-style-type: none"> Implementation of environmental training for new employees, internship environmental training, and environmental training for employees to be posted overseas Promotion of environmental education through the use of e-learning 	○
		Implementation of environmental risk management	<ul style="list-style-type: none"> Implementation of the 6th (FY2014) environmental risk management program 	○
		Initiatives to Protect Biodiversity	<ul style="list-style-type: none"> Build framework for auditing environmental risk management systems 	○
2	Environmental measure applicable to product	Discontinuation of use of environmental hazardous substances in products	<ul style="list-style-type: none"> Environmental quality guarantee for customers Response to EHS surveys by customers Survey green procurement at suppliers and implement EHS management audits Continued to carry out screening using x-ray fluorescence instruments Equipment Renewal of ICP analysis data 	○
		Compliance with laws related to chemical substances and related administration	<ul style="list-style-type: none"> Knowing which substances are restricted, conducting surveys on the restricted substances found in raw materials, and controlling the use of these substances in products 	○
		Proposal of "E-spec" eco-products	<ul style="list-style-type: none"> Introduction of E-spec products at trade shows 	○
3	Environmentally conscious production process / office activity	Management of chemical substances	<ul style="list-style-type: none"> Understanding of quantities of substances consumed, discharged, and transferred 	○
		Saving energy and Prevention of global warming	<ul style="list-style-type: none"> Response to the 2013 revisions to the Act on the Rational Use of Energy and Act on Promotion of Global Warming Countermeasures (including reports to the government) Improve energy consumption rates by at least 1% Implementing measures to improve the rates by at least 1% Distribution: Knowing the transported amount (in ton kilometers) of in-house shipments and managing the shipments accordingly 	○
		Waste reduction	<ul style="list-style-type: none"> Maintenance and improvement of zero-emissions activities Understanding of resource usage (water, copy paper) 	○
		Promotion of green purchasing	<ul style="list-style-type: none"> Promotion of purchasing of products with eco labels at domestic sites, the head office, and branch office 	○
4	Environmental communication	Disclosure of environmental activity information	<ul style="list-style-type: none"> Providing CSR Report and Environmental Data on the website 	○
		Participation in local activities	<ul style="list-style-type: none"> Exhibit at and participate in environmental events sponsored by local communities 	○
		Participation in citizen's movements	<ul style="list-style-type: none"> We aim to increase the number of participants in household environmental accounting 	△



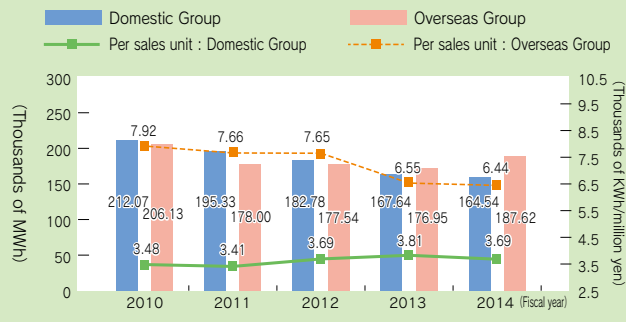
Prevention of Global Warming

With energy consumption accounting for mostly of CO₂ emissions at CMK production facilities in Japan, conserving energy is an important activity for reducing CO₂.

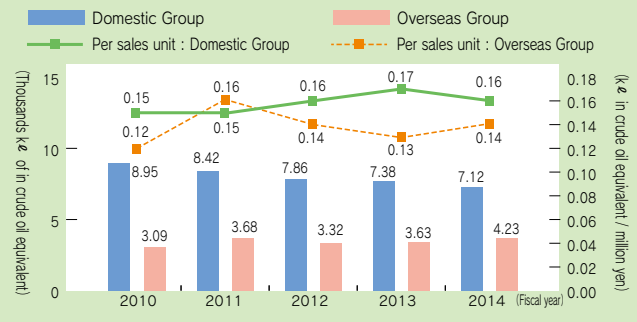
The CMK Group promotes energy conservation in every facet of business activities at its production facilities, offices, another workplaces to reduce CO₂, a major cause of global warming.

In the 2014 fiscal year, CO₂ emissions by Group companies in Japan totaled 108,269t-CO₂ (a reduction of 1.0% from levels in the previous year) and 80,918t-CO₂ for overseas Group companies (a increase of 8.6% from levels in the previous year).

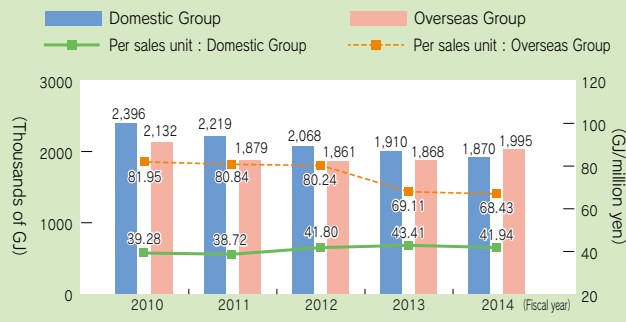
Year-to-year trend in electric energy consumption



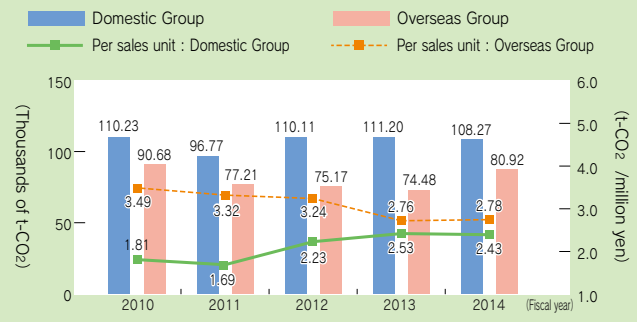
Year-to-year trend in Thermal energy consumption



Year-to-year trends in energy consumption (electricity, thermal energy)



Year-to-year trend in CO₂ emissions



New formula for converting electrical energy to CO₂

Carbon dioxide emissions coefficient to that used by Japan's Ministry of the Environment. A default value (0.000555t-CO₂ /kWh) is used for overseas data. For the Thai factory only, we recalculate by replacing the value with the coefficient for power generation at the industrial park (0.000197t-CO₂ /kWh).

Prevention of Global Warming - Legal Compliance

The company's Working Group on CO₂ Reduction holds regular panel meetings to discuss ways of reducing CO₂ emissions, revisions to legislation and compliance.

With regard to local government ordinances for the prevention of global warming including those of the Metropolitan Tokyo government, we are planning our response by scrutinizing the ordinance requirements and the targeted business sites.

Situation with Regard to Local Government Global Warming Countermeasure Ordinances

Factory	Prefecture	Situation
Head Office	Tokyo	Specified business operator
SE Center	Saitama	Automotive global warming planning operator
CMK PRODUCTS CORPORATION	Kanagawa	Specified large-scale business operator
G Station Factory, KIBAN Center Factory	Gunma	Specified emissions operator

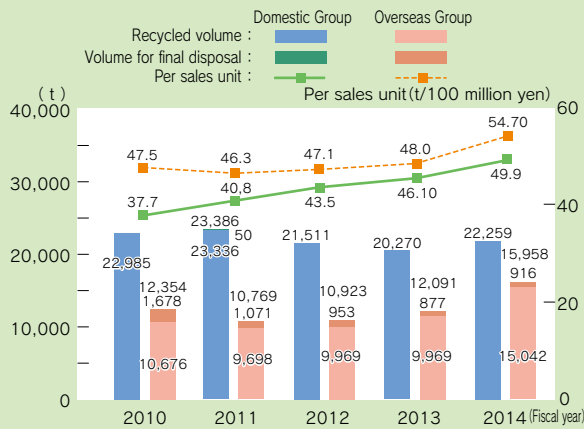


Waste reduction, Resource-recycling and Resource-saving Activities

Domestic group companies generated a total of 22,259 tons of waste and valuable resources in fiscal 2014 and maintained a 100% zero-emissions rate.

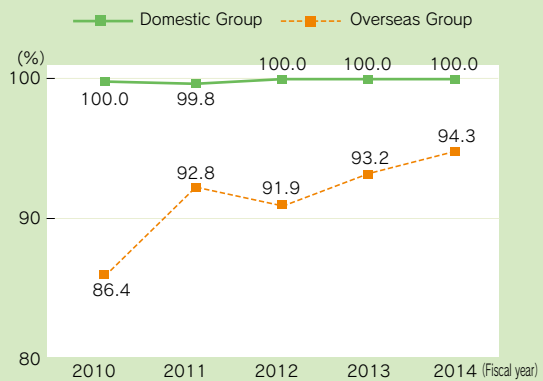
Overseas group companies generated a total of 15,043 tons of waste and valuable resources and achieved a zero-emissions rate of 94.3% (up 1.1 percentage points on the previous year). Although overseas group companies are affected by conditions in the countries and regions in which they are located, the company is actively working to achieve zero emissions and has already done so at CMKC (DONG GUAN) LTD.

Annual trends in total emissions



- Recycled volume: Volume of recycled waste and quantitatively valuable resources
- Volume for final disposal: Volume of waste sent to landfills
- Total volume of generated waste: Volume for final disposal + Recycled volume

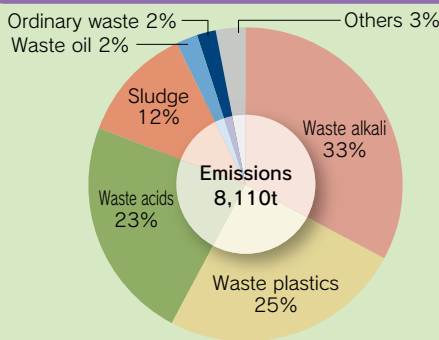
Annual trends in zero-emissions rate



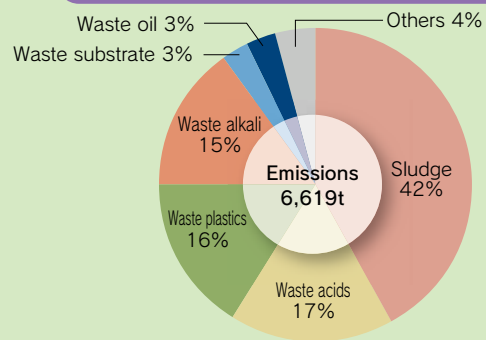
CMK Definition of "Zero Emissions"

No waste material is generated for direct disposal into landfills.
(Excludes material deposited into landfills following intermediate treatment by subcontractors.)
Zero emissions is considered achieved when a 100% ratio can be maintained on an ongoing basis.

Breakdown of waste generated by the Domestic Group



Breakdown of waste generated by the Overseas Group



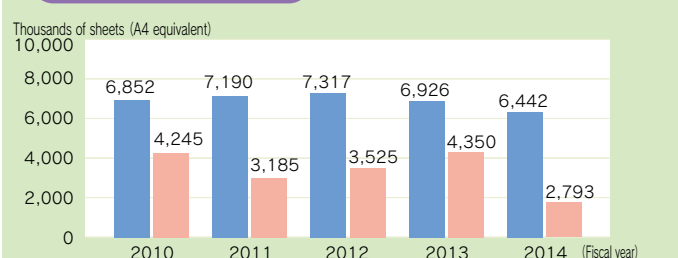
Resource-saving Activities

Based on the concept that waste can be reduced effectively by making the most of limited resources, the CMK Group is energetically pursuing a range of resource-saving activities.

Trends in water consumption



Trends in paper consumption





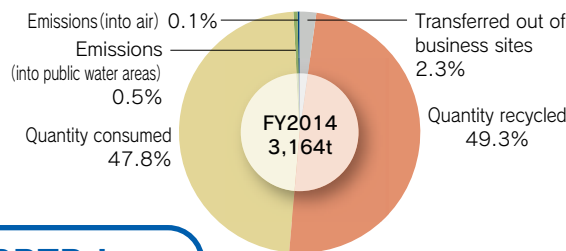
Compliance with the PRTR Law

Since 1998, CMK has been collecting and disclosing data on quantities of chemicals discharged and transferred based on the PRTR method. In FY2014, CMK conducted a study on PRTR substances after the law was revised, and submitted a report on the quantities of 14 chemicals that are transferred and discharged.

*PRTR Law (Pollutant Release and Transfer Register) :

Law concerning promotion of improvement of amount of exhaust and management to environment of Specified Chemical Substance

Breakdown of quantities of PRTR substances handled by CMK



FY 2014 Data by Substance Subject to the PRTR Law

Unit: t

PRTR No.	Chemical substance	Quantity handled	Emission volume			Quantity transferred		Quantity recycled	Quantity consumed	Main uses
			Into air	Into public water areas	Into soil	Into sewerage	Out of business site			
20	2-aminoethanol	5.35	0.00	4.01	0.00	0.00	0.96	0.00	0.38	Used in copper-plating process
60	ethylenediaminetetraacetic acid	4.97	0.00	4.97	0.00	0.00	0.00	0.00	0.00	Circuit forming process: analysis solution of Neo-Brown (dilute sulfuric acid)
71	ferric chloride	1,672.41	0.00	0.00	0.00	0.00	0.00	898.76	773.65	Used in etching and nickel plating processes
144	inorganic cyanide compounds(except complex salts and cyanates)	1.31	0.00	0.00	0.00	0.00	0.00	1.31	0.00	Gold plating process: gold-bearing liquid solution
272	copper salts (water-soluble, except complex salts)	822.99	0.00	1.45	0.00	0.05	21.32	655.03	145.14	Generated during copper etching
291	1,3,5-tris(2,3-epoxypropyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	2.02	0.00	0.00	0.00	0.00	0.92	0.00	1.10	Hardener for resist inks
300	toluene	1.99	1.54	0.00	0.00	0.00	0.45	0.00	0.00	Surface finishing (diluent of resin organic solderability preservative)
304	lead	5.90	0.00	0.00	0.00	0.00	0.04	3.45	2.41	Solder precoat
309	nickel compounds	1.77	0.00	0.06	0.00	0.00	0.00	1.00	0.71	Plating processes: nickel plating(Gold-plated base material)
395	water-soluble salts of peroxodisulfuric acid	590.95	0.00	0.00	0.00	0.00	47.90	0.00	543.05	Used in plating pretreatment process
405	boron compounds	2.75	0.00	2.75	0.00	0.00	0.00	0.00	0.00	Blackening treatment process: reducing agent
411	formaldehyde	36.33	0.78	0.05	0.00	0.03	2.71	0.00	32.76	Component of copper plating fluid
412	manganese and its compounds	3.26	0.00	3.26	0.00	0.00	0.00	0.00	0.00	Plating processes: Smear removal, Circuit forming process: analysis solution of Neo-Brown (dilute sulfuric acid)
438	methylnaphthalene	11.54	0.06	0.00	0.00	0.00	0.00	0.00	11.48	A component of A-Heavy Oil
Total		3,163.54	2.38	16.55	0.00	0.08	74.30	1,559.55	1,510.68	

FY 2014 PRTR Data by Factory

Unit: t

PRTR No.	Chemical substance	Quantity handled	Emission volume			Quantity transferred		Quantity recycled	Quantity consumed
			Into air	Into public water areas	Into soil	Into sewerage	Out of business site		
G Station Factory									
272	copper salts (water-soluble, except complex salts)	18.12	0.00	0.57	0.00	0.00	0.00	17.55	0.00
395	water-soluble salts of peroxodisulfuric acid	88.82	0.00	0.00	0.00	0.00	0.00	0.00	88.82
411	formaldehyde	9.14	0.00	0.05	0.00	0.00	0.00	0.00	9.09
438	methylnaphthalene	6.43	0.03	0.00	0.00	0.00	0.00	0.00	6.40
KIBAN Center Factory									
71	ferric chloride	960.11	0.00	0.00	0.00	0.00	0.00	585.56	374.55
272	copper salts (water-soluble, except complex salts)	279.54	0.00	0.32	0.00	0.00	0.00	279.22	0.00
291	1,3,5-tris(2,3-epoxypropyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	2.02	0.00	0.00	0.00	0.00	0.92	0.00	1.10
395	water-soluble salts of peroxodisulfuric acid	16.49	0.00	0.00	0.00	0.00	0.00	0.00	16.49
438	methylnaphthalene	5.11	0.03	0.00	0.00	0.00	0.00	0.00	5.08
Nigata Factory									
20	2-aminoethanol	4.01	0.00	4.01	0.00	0.00	0.00	0.00	0.00
60	ethylenediaminetetraacetic acid	4.97	0.00	4.97	0.00	0.00	0.00	0.00	0.00
71	ferric chloride	179.50	0.00	0.00	0.00	0.00	0.00	26.90	152.60
144	inorganic cyanide compounds (except complex salts and cyanates)	1.31	0.00	0.00	0.00	0.00	0.00	1.31	0.00
272	copper salts (water-soluble, except complex salts)	13.46	0.00	0.00	0.00	0.00	0.00	6.06	7.40
309	nickel compounds	1.77	0.00	0.06	0.00	0.00	0.00	1.00	0.71
395	water-soluble salts of peroxodisulfuric acid	391.14	0.00	0.00	0.00	0.00	0.00	0.00	391.14
405	boron compounds	2.75	0.00	2.75	0.00	0.00	0.00	0.00	0.00
411	formaldehyde	17.50	0.70	0.00	0.00	0.00	0.00	0.00	16.80
412	manganese and its compounds	3.26	0.00	3.26	0.00	0.00	0.00	0.00	0.00
Kanbara Factory									
20	2-aminoethanol	1.34	0.00	0.00	0.00	0.00	0.96	0.00	0.38
71	ferric chloride	83.00	0.00	0.00	0.00	0.00	0.00	0.00	83.00
272	copper salts (water-soluble, except complex salts)	477.80	0.00	0.56	0.00	0.00	19.90	336.10	121.24
304	lead	5.90	0.00	0.00	0.00	0.00	0.04	3.45	2.41
395	water-soluble salts of peroxodisulfuric acid	94.50	0.00	0.00	0.00	0.00	47.90	0.00	46.60
411	formaldehyde	6.53	0.08	0.00	0.00	0.00	0.20	0.00	6.25
CMK PRODUCTS CORPORATION									
71	ferric chloride	449.80	0.00	0.00	0.00	0.00	0.00	286.30	163.50
272	copper salts (water-soluble, except complex salts)	34.07	0.00	0.00	0.00	0.05	1.42	16.10	16.50
300	toluene	1.99	1.54	0.00	0.00	0.00	0.45	0.00	0.00
411	formaldehyde	3.16	0.00	0.00	0.00	0.03	2.51	0.00	0.62

· Technical Center Factory and Chichibu Factory data excluded.

· There may be inconsistencies in the total amount depending on how fractions are processed.

Examples of Activities at the Production Bases

Energy conservation case studies

Implementation of Energy Saving Diagnosis at Domestic Production Bases by a Third-Party Institution

CMK maintains and manages production and ancillary facilities. It conducts energy-saving activities at its factories by assigning staff members from the Facilities Department to each factory. This setup allows for production activities to be conducted every day without delay.

The thermal energy at our factories consists of electric energy, gas, and heavy oil A. Of this, electric energy accounts for more than 80%.

In particular, compared to the previous fiscal year fuel adjustment costs and renewable energy charges, which are added to the electricity bills, represented a considerable increase in energy costs in FY2014.

In light of these factors, the Environmental Promotion Department, which acts as the headquarters, took the initiative in FY2014 by having a third-party institution conduct an energy saving diagnosis at the seven factories in Japan between July and November 2014.

The Environmental Promotion Department held discussions with the Facilities Department at each factory. Based on the results of the diagnosis, they worked together to implement projects that were extremely effective in reducing the amount of energy used and delivering high cost-benefit performance in a planned manner.



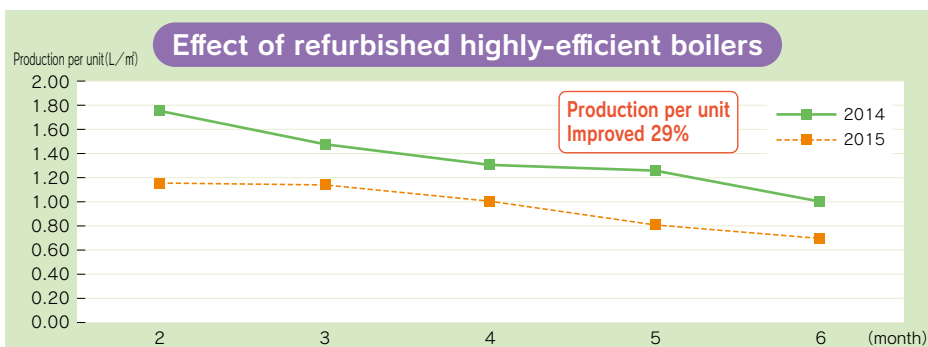
Energy saving diagnosis of factory facilities

Energy Conservation Initiatives at G Station Factory: Energy saving through highly-efficient steam boilers

The G Station Factory was considering plans for refurbishing the existing steam boilers used for production. Energy saving diagnosis of new boilers showed that the amount of energy used can be reduced while improving the cost-benefit performance. In light of these results, we replaced the existing steam boilers with highly-efficient steam boilers with unit control capabilities in early February 2015. Following the replacement of the steam boilers, the production per unit (the amount of heavy oil A used for the production of 1 m² of substrate: ℓ / m²) improved by 29%, which was greater than expected (the amount of heavy oil A used for the six months from February decreased about 114KL, or 199 tons of CO₂). However, the verification period is still short.



Refurbished boilers



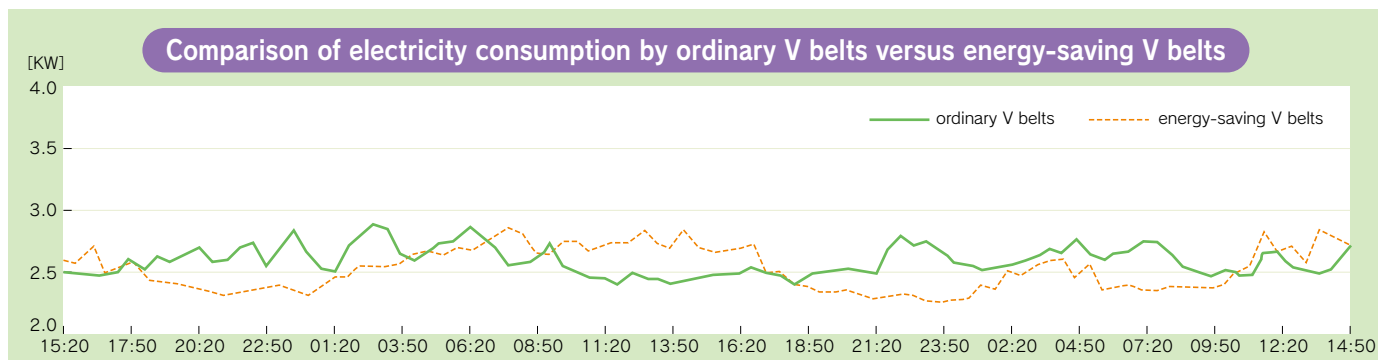
The boilers were refurbished in February 2015 and operated stably in April 2015 following subsequent trial runs, adjustments, and condition settings

Energy Conservation Initiatives at Kanbara Factory: Energy-saving V belts cut down on the amount of energy used

Energy-saving V belts were recommended following the energy saving diagnosis conducted at the Kanbara Factory. The records of energy-saving V belt manufacturers show that their energy-saving rate improved 3% due to reduction of the power transmission loss.

We conducted repeated experiments comparing the energy-saving effect of existing V belts and energy-saving V belts, using the exhaust-gas treatment equipment at the factory as a model. These experiments verified that the energy-saving rate improved 2 to 3%.

There are a considerable number of power transmission belts at the factory, and thus even if the energy-saving rate improves by only a few percentage points, the amount of electric energy consumed is expected to fall. We plan to gradually replace the existing V belts with the energy-saving V belts at each factory.



Energy-saving V belts were installed in the same exhaust fans, and the power consumption was measured every 30 minutes for three days.



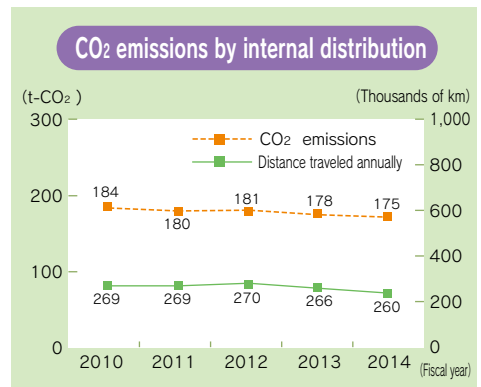
Office and distribution case studies

Reductions in Environmental Load Resulting from Internal Distribution

Since the production sites of the CMK Group are concentrated along the Kanetsu Expressway in Niigata, Gunma, and Saitama prefectures, we take advantage of their convenient locations by operating shuttle trucks for internal distribution. The company remains committed to reducing CO₂ emissions through optimized management of in-house shipments on a daily basis.

Compliance with relevant laws and regulations

- In FY 2003, CMK completed switching its fleet of company cars from diesel vehicles to gasoline vehicles to ensure compliance with the Automotive NO_x and PM Law enacted in October 2003.
- CMK does not correspond to a designated shipper under the Revised Energy Saving Law enacted in April 2005.

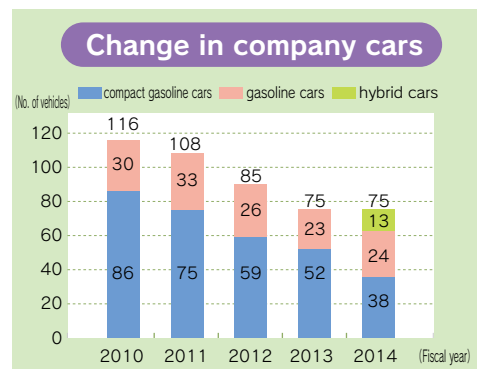


Environmental Measures for Company Cars

With the enactment of the Automobile NO_x and PM Law in October 2003, use of non-compliant diesel cars is subject to regulation in designated regions. In response to these restrictions, CMK switched the diesel cars in its sales fleet to gasoline cars (Full switch as of FY 2006).

At the same time, it worked to reduce CO₂ emissions by switching to small Compact gasoline cars (using engines of 1,300cc or less) with high fuel efficiency and low emissions.

As a result, the company owned a total of 38 compact gasoline cars, 24 regular gasoline cars, 13 hybrid cars.



Summer Energy-saving Efforts

In accordance with governmental guidelines, during the summer, the CMK Group sets office air conditioners in areas where ambient temperatures do not affect product quality to 28°C.

This helps relieve consumption and demand at a time of the year when most air conditioners in Japan are operating at full capacity and energy demand is at a peak. Each business site regularly implements energy efficiency patrols under the guidance of the energy efficiency committees.

The company has also extended the duration of "cool biz" initiatives and encourages employees to wear lighter clothes during the summer months.

The company is committed to raising environmental awareness amongst its employees, by promoting environmental activities in which everyone can readily participate.



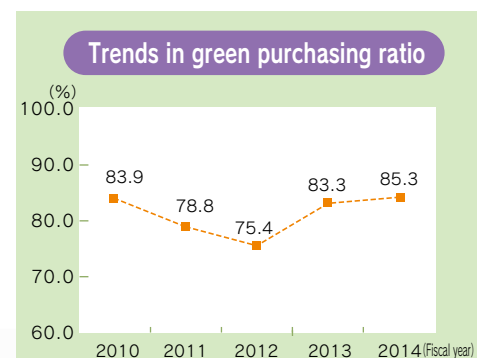
Green Purchasing Activities

CMK promotes environmentally sound procurement of office supplies through the positioning of Green Procurement.

We have also established green-purchasing guidelines, referring to information provided by the Green Purchasing Network (GPN) and Eco Mark, recording all relevant purchase data.

FY2011, we expanded the scope of confirming green purchasing ratios to all the domestic CMK Group companies.

The green purchasing ratio for FY 2014 was 85.3%.



Green Purchasing Judgment

- ① Items with eco-mark or similar recognized environmental standard label
- ② Products advertised as eco-conscious items in catalogs, etc.
- ③ Articles not included in ① or ② above, but judged to be exceptions by CMK
- ④ The ordering of printed material complies with the ordering guidelines for offset printing services (GPN-GL14) of the Green Purchasing Network (GPN).

Targeted green purchase items

- Paper ● Printing items ● Office furniture ● Automobiles ● Stationery
- Computers and office automation equipment ● Other office supplies



Uniforms we purchase are made of fabrics recycled from PET (polyethylene terephthalate) bottles.

Green Purchasing Ratio (%)

This graph illustrates the proportion of all purchased stationary accounted for by materials meeting green purchasing program standards (for example, products bearing the Eco Mark).

- There were partial changes to the scope of calculations during the period from fiscal 2008 to 2011. Data from fiscal 2011 onwards is based on results for all domestic group companies.

Observing Environmental Laws and Ordinances, Environmental Auditing and Environment Slogan, Biodiversity Conservation Activities

Observing Environmental Laws

To safeguard against environmental risks, in addition to the implementation of ISO14001 management activities and efforts at each business site, the CMK Group uses a compliance checklist to ensure an understanding of and to improve compliance status with environmental laws and regulations, as well as to rapidly disseminate information on revisions in laws and regulations, thereby ensuring maintenance and confirmation of legal compliance.

Employees with qualifications related to environmental laws and ordinances

(Nonconsolidated CMK employees, as of March 31, 2015)

Related license	No. of persons
Boiler Operator (Special grade, First grade, Second grade)	25
Cheaf Electricity Engineers (First Class, Second Class, Third Class)	12
Qualified Energy Manager	12
Type2 Energy Managers	6
Air Pollution Control Manager	9
Water Pollution Control Manager	28
Noise Pollution Control Manager	8
Vibration Pollution Control Manager	10
Noise Pollution and Vibration Pollution Control Manager	1
Refrigeration Safety Manager (Class 2)	1
Refrigeration Safety Manager (Class 3)	5
Hazardous Materials Engineer (Class A, Class B, Class C)	210
Fire Protection Manager	27
Specially-Controlled Industrial Waste Control Manager	24
Technical Manager of Waste Treatment Plant	4
Manager for Handling of Poisonous and Deleterious Substances	15
Health Officer	39
Operation chief of industrial dryer	152
Operation chief of using organic solvents	208
Persons having completed the boiler-operation training course	23
Operation chief of boiler operation	12
Operation chief of using specified chemical substances	199
Operation chief of lead danger	13
Operation chief of press machines	38
Total	1,081

Environment-related laws covered in the Environmental Law observance checklist

Related laws covered in the investigation	
1	Air Pollution Control Law
2	Water Pollution Control Law
3	Noise Regulation Law
4	Vibration Regulation Law
5	Offensive Odor Control Law
6	Waste Disposal and Public Cleaning Law
7	Law Concerning the Rational Use of Energy
8	Fire Laws
9	Poisonous and Deleterious Substances Control Law
10	Purification Tank Law
11	High Pressure Gas Safety Law
12	Factory Location Law
13	Sewerage Law
14	Industrial Water Law
15	Law Concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures
16	Law Concerning the Promotion of Measures to Cope with Global Warming
17	Law concerning promotion of improvement of amount of exhaust and management to environment of Specified Chemical Substance
18	Law Concerning the Improvement of Pollution Prevention Systems in Specific Factories
19	Law Concerning the Recovery and Destruction of Fluorocarbons
20	Law Concerning Recycling of Materials from Construction Work
21	Soil Contamination Countermeasures Act

Environmental Auditing

Implementation of Environmental Audits by the CMK Group

The CMK Group engages in two types of environmental audits: EMS audits for the environmental management system and EHS control audits with a focus on the control of environmental hazardous substances.

Additionally, an in-house certification system has been established to train EHS control auditors to increase the number of auditors and maintain and enhance auditing skills.

Internal EMS audits were carried out at ISO14001-certified facilities to confirm effective implementation of environmental management systems and environment preservation activities.

The CMK Group also conducted periodic audits through outside auditing companies.

◆ Number of EHS management auditors
(as of the end of March, 2015)

Japan	61
Overseas	24
Total	85

◆ Number of internal environmental auditors
(as of the end of March, 2015)

Japan	179
Overseas	41
Total	220

Environment Slogan

Formulation of the FY 2015 environmental slogan (selected from employee entries)

Each year, CMK chooses a new Environment Slogan designed to boost awareness of the importance of environmental initiatives by each and every employee. Selected from a field of some 779 entries, the FY 2015 slogan is " Make steady efforts ! Generate unconventional ideas! Let's be a advanced excellent company of environment!"



Biodiversity Conservation Activities

The company is committed to promoting biodiversity conservation and implements a range of initiatives aimed at creating a society that coexists with nature.

In the Gunma district, as part of our social contribution activities, we signed up for the Isesaki City "Red Pine Management Ownership Program" to protect red pines trees in the city. In the Niigata district, we participated in green fundraising activities and activities of incorporated non-profit organizations to upgrade mountain trails and support activities of the local fisherman's union. Also, in the Saitama district, we worked on removing alien species.

Our activities have been intensifying every year and, as a group, we will continue to commit to promoting biodiversity conservation.



Information Disclosure and Customer relations

Information Disclosure

Environmental communication

We started to publish the Environmental Report in 1999 as a tool for communicating with all stakeholders. In 2000, we started to publish an English language version of the report as we made efforts to disclose information not only in Japan but also overseas. Since 2007, we have expanded and developed the Environmental Report and published it in the form of a CSR Report with the aim of informing all stakeholders of the approach to CSR at CMK. There is a CSR section on the CMK website, providing further information on the company's CSR activities and environmental initiatives in particular.



Customer relations

Customer-accredited Green Producers

Customers are increasingly performing environmental quality audits to check on our development and operation of EHS management systems to comply with RoHS directives. CMK has been subject to accreditation audits by customers since November 2002. As a result, many of our production facilities and other sites have been accredited as green producers.

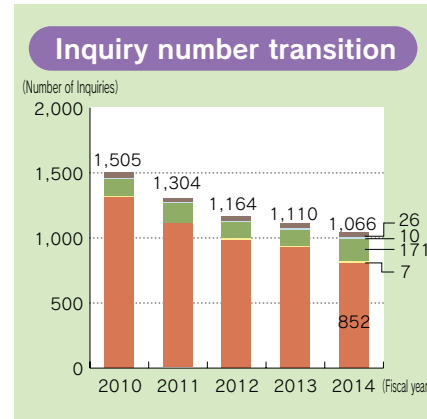


Certificates issued by customers

Customer Inquiries

The Environmental Promotion Department, which serves as a customer service center for environmental affairs, received 1,066 customer inquiries and requests in FY 2014. (Fiscal year)

Division	2010	2011	2012	2013	2014
Regulated chemicals	1,315	1,109	978	927	852
Acquisition of ISO14001 certification	6	5	13	7	7
Green procurement	129	152	125	135	171
CSR Questionnaires	9	9	9	16	10
Others	46	29	39	25	26



Environmental Impact Data for Production and R&D Facilities

Upper line : Name of business site Lower line : Production item or business line	Energy performance		Waste performance		Resource consumption performance		Chemicals		Water quality measurement results					Air quality measurement results									
	CO ₂ emissions	Electric energy consumption	Thermal energy consumption	Zero emissions rate	Total quantity generated	Water consumption	Paper consumption	Volume of volatile organic chemicals (VOC) handled	pH	BOD	COD	SS	n-hexane (mineral oil)	n-hexane (animal/plant oil)	Coil bacillus	NOx	SOx	Soot	NOx	SOx	Soot	Specified facility name	
t-CO ₂	Thousands of kWh	kJ include oil equivalent	%	t	Thousands of m ³	Thousands of sheets (A4-equivalent)	t		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	No. of bacteria/cm ³								
G Station Factory	9,299	14,804	541	100.0%	502	996	40	0.0	6.8~7.8 (6.0~8.4)	7	22 (35)	4	2	2	<100 (1000)							Boiler	
Built-up, Rigid-flex, Multilayered PWBs																							
KIBAN Center Factory	19,344	34,330	428	100.0%	5,550	1,099	1,026	27.6	7.6~8.0 (6.0~8.4)	9	13 (20)	4	2	1	1 (800)							Warm water boiler	
Built-up, Rigid-flex and Multilayered PWBs																							
Technical Center Factory	1,089	2,054	0	100.0%	137	49	36	0.0	7.6 (6.5~8.5)	1	1 (20)	2	2	2	30 (30)							No applicable equipment	
Research and development facility																							
Nigata Factory	49,375	68,394	4,566	100.0%	5,090	3,733	1,805	64.5	6.4~7.5 (6~8.4)	13	8.7 (24.5)	5	0	1	30 (2500)							Steam boiler/Cold/Warm water generator	
Built-up, Multilayered PWBs																							
Kanbara Factory	22,552	33,742	1,331	100.0%	5,720	6,72	1,440	25.1	7.4 (6~8.3)	25	41 (50)	4	<2	<2	— (1500)							Gas-fired absorption-type cool-warm water generator	
Multilayered and Double-sided PWBs																							
Chichibu Factory	444	826	2	100.0%	61	2	158	0.0	—	—	—	—	—	—	—							No applicable equipment	
Press molds, divided molds, installation tools, Environmentally friendly detachable washing machine																							
CMK PRODUCTS CORPORATION	6,167	10,385	249	100.0%	5,200	137	1,574	2.0	8.0 (6.0~8.4)	140	— (<250)	6	—	—	—							No applicable equipment	
Trial manufacture of printed wiring boards																							
CMK (DONG GUAN) LTD.	31,349	50,852	1,283	100.0%	7,563	1,044	1,244	—	7.7 (6~9)	—	—	14 (30)	1.9 (2)	—	—							Boiler exhaust	
Multilayered and Double-sided PWBs																							
CMK ELECTRONICS (WUXI) CO., LTD.	27,038	45,377	965	91.5%	4,477	595	1,015	—	7.95 (6~9)	—	46 (50)	27 (30)	—	—	—							Waste gas outlet	
Built-up and Multilayered PWBs																							
CMK CORPORATION (THAILAND) CO., LTD.	22,524	91,390	1,976	86.4%	3,920	2,800	535	—	7.1 (5.0~9.0)	20 (≤500)	88 (≤750)	11 (≤200)	<2 (≤10)	<2	—							Steam boiler	
Built-up, Multilayered and Double-sided PWBs																							

· The indicated air and water quality measurement values represent the highest values obtained. · Figures in parentheses are voluntary regulation values.