CMK CORPORATION

2012

Environmental Data

CONTENTS

Applicable Period

2011

From April 1,2011 through March 31,2012

※Some activities that are likely to continue are included with activities for 2012.

Applicable companies

CMK CORPORATION and affiliated companies

Domestic Group

CMK CORPORATION

【Four Main Factory】
- G Station Factory
- Technical Center Factory
- KIBAN Center Factory
- Niigata Satellite Factory

【Non-production Centers】
- Head Office
- SE Center
- Sales Offices (10)

Domestic Affiliated Companies

【Production Centers】
- CMK MECHANICS CORPORATION
- CMK MULTI CORPORATION
- YAMANASHI SANKO CO.,LTD.
- CMK KANBARA ELECTRONIC CORPORATION JAPAN
- CMK PRODUCTS CORPORATION

Overseas CMK Group

Sites

【Production Centers】
- CMKS (MALAYSIA) SDN. BHD.
- CMK CORPORATION(THAILAND)CO.,LTD
- CMK ELECTRONICS (WUXI) CO., LTD.
- CMKC (DONG GUAN) LTD.

Sales facilities

【Non-production Centers】
- CMK EUROPE N.V.
- CMK AMERICA CORPORATION
- CMK ASIA(PTE.)LTD.
- CMKC (HONG KONG) LIMITED.

Environmental Data Compendium

The Environmental Data compendium presents environmental information such as statistical data and descriptions of programs and initiatives that were omitted from the CSR Report 2012 due to space restrictions.

Inquiries regarding Environmental Data

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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 2012	Corresponding page(s) in Environmental Data 2012
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	1
(3)	Reporting Policy	8,12,30	–
(4)	Publication Media Policy	1,30	–
2	Foreword by Management	2	–
3	Overview of environmental reporting		
(1)	Outline of Environmental Management	3	–
(2)	List of KPI in Chronological Order	4,17	4,5,9,11
(3)	Material Balance	–	3
4	Overview of Individual Environmental Issues	12	–
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1	Environmental Policy, Vision and Business Strategies		
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(2)	Important Issues, Vision and Business Strategies	–	–
2	Organizational Structure and Governance		
(1)	Organizational Structure of Environmental Management	13	–
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(3)	Compliance with environmental regulations	14	10
3	Responses to Stakeholders		
(1)	Responses to Stakeholders	15	11
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4	Environmental Initiatives in the Value Chain		
(1)	Environmental Policies and Strategies in the Value Chain	15,16	–
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(3)	Products and services that help minimize environmental impact	–	3
(4)	New Environmental Technologies and R&D	–	–
(5)	Environmentally-friendly transportation	–	9
(6)	Environmental Resource and Real estate development , Investment	–	–
(7)	Environmental disposal of refuse and recycle	10,17	5
3. Information and Indicators for Environmental Initiatives and Environmental Impact of Business Activities			
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(2)	Total material input and strategies for reduction	12	–
(3)	Water consumption and strategies for reduction	–	5
2	Recycling of Resources	–	–
3	Products/ Productions and Emissions of Environmental Impact		
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(3)	Total liquid emissions and strategies for reduction	12	6
(4)	Air pollution, its environmental impact on the living environment, and reduction measures	12	6
(5)	Amount of release and transfer of chemical substances and reduction measures	12,17	6
(6)	Total waste output and final waste disposal volumes and strategies for reduction	10,12,17	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	10
4. Information and Indicators for Economic and Social Aspects of Environmental Management			
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(2)	Economic Aspects for Society	–	–
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5. Other Entries			
1	Subsequent Events	–	–
2	Third Party Review of Environmental Information	Another paper	

FY 2011 Performance and Targets for Next Fiscal Year

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.

Results of Main Activities in FY 2011 and Targets for FY 2012

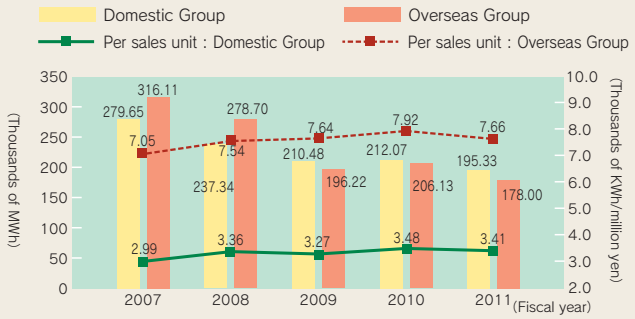
Explanation of evaluation symbols ◎: Target reached ○: Target nearly reached △: Target partially unaccomplished × : Not included

Classification of activity		Activity theme	Results of activities in FY 2011	Evaluation	Target for FY 2012
1	Management activity	Construction of environmental management system	· Maintenance and administration through ISO 14001 renewal inspections; periodic inspections	◎	· ISO 14001 maintenance and management; performance improvements.
		Implementation of environmental accounting	· Aggregate FY2011 data on the CMK Group in Japan	○	· Implement environmental accounting for the domestic Group and study ways to improve accuracy.
		Abidance by environmental laws	· Monthly rollout of revised information · Survey compliance with clean production standards in China	◎	·Horizontal deployment of government survey results (monthly). · Survey overseas laws and regulations, obtain information, horizontal deployment.
		Implementation of environmental audit	· Conduct CMK Group EHS management audits at 2 locations based on the annual plan · Continue internal audits	○	· Implementation of audits based on Group EHS Management Auditing Annual Plan. · Continuous implementation of internal audits at ISO14001 certified sites. · Implement energy conservation management audits at domestic production facilities
		Implementation of environmental education	· Holding of internship environmental training / Environmental training for new employees / Holding of training for EHS management auditors · Publish environmental news on a monthly basis, raise environmental awareness among employees	◎	· Holding of training for Environmental training for new employees , internship environmental training , Environmental training.
		Implementation of environmental risk management	· Implement Environmental Risk Management Program	○	· Build framework for auditing environmental risk management systems.
		Initiatives to Protect Biodiversity	· Establish the Gunma District Biodiversity Committee · Eliminated invasive species (bur cucumber etc.)	○	· Engage with social contribution activities (voluntary activities) such as participation in planning regional biodiversity protection activities.
2	Environmental measure applicable to product	Discontinuation of use of environmental hazardous substances in products	· Issuance of certificate confirming non- use of specified substances (430cases) · Response to surveys related to environmental hazardous substances (1,109 cases) · Auditing of the EHS management of business partners ·Standardize independent analysis and carry out analysis (549)	◎	· Environmental quality guarantee for customers. · Response to EHS surveys by customers. · Survey green procurement at suppliers and implement EHS management audits. · Equipment Renewal of ICP analysis data.
		Proposal of " E-spec" eco-products	· Production volumes: 238,284m² (Production volume for previous year: 315,186 m²) · Continue to use E-spec (halogen-free materials) certification system for purchased products · E-spec products introduced using panel displays	○	· Understanding of monthly production volume and sales · Continue to use E-spec (halogen-free materials) certification system for purchased products · Introduction of E-spec products at trade shows(JPCA show, INTERNEPCON JAPAN)
		Response to REACH regulations	· Ascertaining additional SVHC substances →Not included	◎	· Ascertain additional SVHC substances, study use in raw materials and control use in products
3	Environmentally conscious production process / office activity	Management of chemical substances	· Understand and report consumption, emission and transfer volumes for substances subject to the PRTR Law. · Implement MSDS updates. · Amendment of CMK Group PRTR Data Calculation Steps.	◎	· Understanding of quantities of substances consumed, discharged, and transferred, and management of VOC. · Continue maintenance and administration of MSDS, promotion of chemical substance controls in accordance
		Saving energy and Prevention of global warming	· CO_2-emission basic units Domestic: 1.69t-CO_2/million yen (6.6% reduction YOY) Overseas: 3.32t-CO_2/million yen (4.8% reduction YOY) · Publish guidelines for calculating energy consumption rates. · Responding to Law Concerning the Rational Use of Energy . · Consider joining CO_2 reduction program by industry body → participation postponed · Improved tracking management of sales fleet and other company vehicles, including total number of vehicles and fuel consumption Distribution. · Carbon-dioxide emissions reductions through control of in-house shipments (1.8% reduction YOY)	○	· Improve energy consumption rates by at least 1% · Introduce targets and management techniques that conform to their industries · Improved tracking management of transportation volumes in accordance with the Law Concerning the Rational Use of Energy and the Global Warming Countermeasures Law · Survey trends in domestic emissions trading (regulation trends)
		Waste reduction	· Zero emissions rate Domestic: 99.8% (0.2% fall YOY) Overseas: 92.8% (6.4% Improvement YOY) · Resource consumption volume Water→Domestic : 7,129,000㎥ (4.9% reduction YOY) Overseas : 4,580,000㎥ (7.2% increase YOY) Copy Paper →Domestic : 7,344,000 sheets (7.1% increase YOY) Overseas : 3,185,000 sheets (25% reduction YOY)	△	· Maintenance and improvement of zero-emissions activities · Understanding of resource usage (water, copy paper)
		Promotion of green purchasing	· Expand scope of tally as of this fiscal year (all production facilities in Japan) · Green purchasing rate : 78.8% (previous year: 83.9%)	△	· Promotion of purchasing of products with eco labels at domestic sites, the head office, and branch offices
4	Environmental communication	Disclosure of environmental activity information	· Issue of CSR Report , Environment Date Compendium · Introduce CSR reporting at all production facilities · Distribute to visitors	◎	· Issue CSR report that complies with ISO26000 (social responsibility) · Distribution of the CSR Report to customers, business partners, and local communities
		Participation in local activities	· Conduct environmental accounting bookkeeping (186 persons)	△	· We aim to increase the number of participants in household environmental accounting
		Participation in citizen's movements	· Participate in cleanup activities and events sponsored by local communities	◎	· Exhibit at and participate in environmental events sponsored by local communities

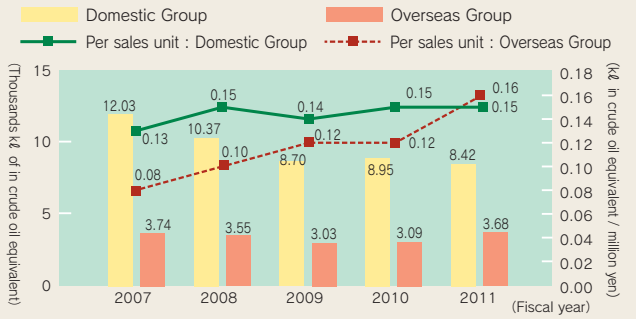
Prevention of Global Warming

With energy consumption accounting for mostly of CO_2 emissions at CMK production facilities in Japan, conserving energy is an important activity for reducing CO_2.
The CMK Group promotes energy conservation in every facet of business activities at its production facilities, offices, another workplaces to reduce CO_2, a major cause of global warming.
In the 2011 fiscal year, CO_2 emissions by Group companies in Japan totaled 96,773t-CO_2 (a reduction of 12.2% from levels in the previous year) and 77,214t-CO_2 for overseas Group companies (a reduction of 14.8% from levels in the previous year).

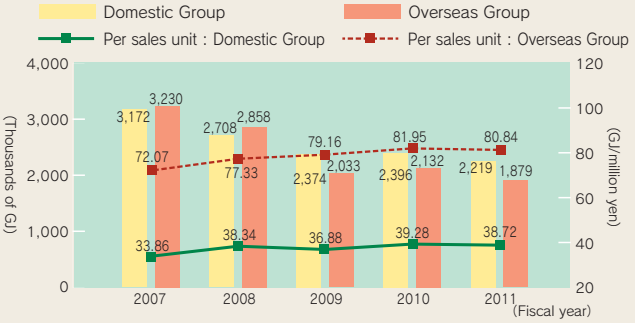
Year-to-year trend in electric energy consumption



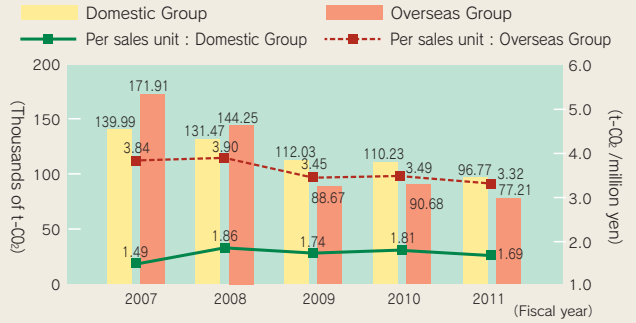
Year-to-year trend in Thermal energy consumption



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



Year-to-year trend in CO_2 emissions



New formula for converting electrical energy to CO_2
From FY 2006, CMK switched from an industry group's carbon dioxide emissions coefficient to that used by Japan's Ministry of the Environment.
A default value of 0.000555t-CO_2/KWh is used for overseas data. At the Thai factory alone, the value is recalculated by converting to the coefficient (0.000197 t-CO_2/KWh) for power generation at the industrial park.

Calorific value of city gas (13A)
In FY 2008, CMK changed the calorific value of city gas from 46 (GJ/1,000 m³) used in FY 2007 to42 (GJ/1,000 m³) .

Responses to the Revised Act on the Rational Use of Energy, the Revised Act on Promotion of Global warning Countermeasures, and Ordinances to Prevent Global Warming

CMK regularly convenes a Working Group on CO_2 reduction to examine ways of dealing with CO_2 reduction and changes in the laws.
With regard to the revised Act on the Rational Use of Energy, we have decided on the reporting structure, energy supervisor and energy planner at CMK and at the domestic Group companies, and we are now making preparations for legal reporting requirements.
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.

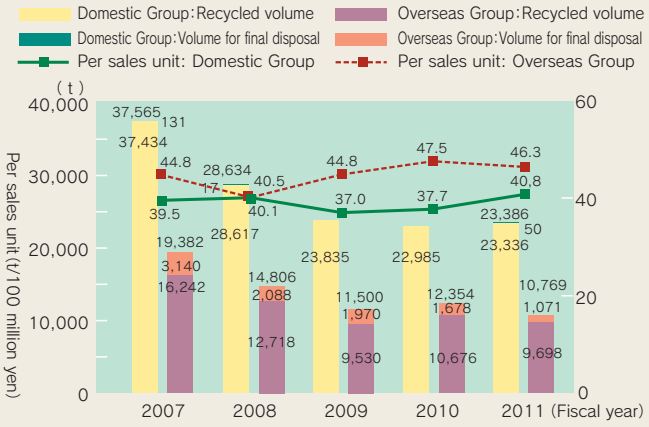
Situation with Regard to Local Government Global Warming Countermeasure Ordinances

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
YAMANASHI SANKO CO.,LTD	Yamanashi	Specified business operator

Waste Reduction, Resource Recycling and Resource-saving Activities

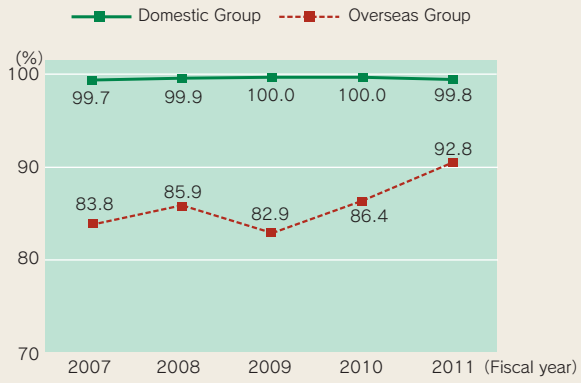
Total waste and valuable resources generated in the 2011 fiscal year by CMK Group companies in Japan was 23,386tons.
The zero-emissions rate during this period was 99.8%, an deterioration of 0.2 percentage points from the previous fiscal year.
Total waste and valuable resources generated by overseas CMK Group companies was 10,769tons.
The zero-emissions rate was 92.8%, an increase of 6.4 percentage points from the previous fiscal year.
The domestic Group was unable to maintain the 100% zero emissions rate due to the impact of the Great East Japan Earthquake.
At our overseas facilities, CMKC (DONG GUAN) LTD. achieved zero emissions. The overseas factories are actively promoting activities intended to achieve zero emissions although the activities depend to some extent on national or regional factors in the countries where they operate.

Annual trends in total emissions



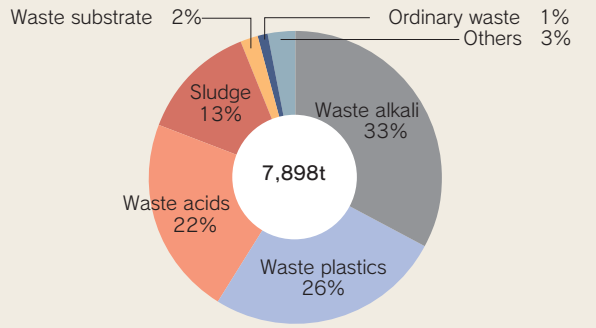
- Recycled volume: Volume of recycled waste and quantitatively valuable resources
- Volume for final disposal: Volume of waste sent to landfills
- Total volume of generated waste: Volume for final disposal + Recycled volume

Annual trends in zero-emissions rate

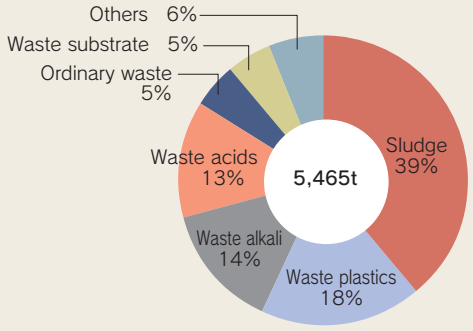


CMK Definition of "Zero Emissions"
No waste material is generated for direct disposal into landfills.
(Excludes material deposited into landfills following intermediate treatment by subcontractors.)
Zero emissions is considered achieved when a 100% ratio can be maintained on an ongoing basis.

Breakdown of waste generated by the Domestic Group



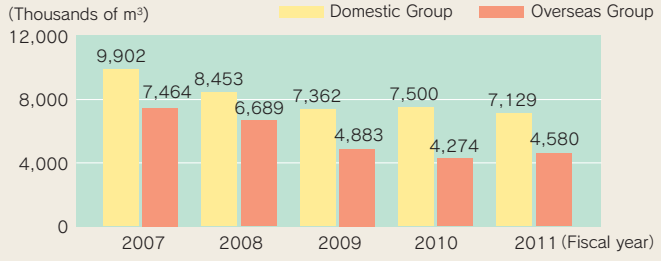
Breakdown of waste generated by the Overseas Group



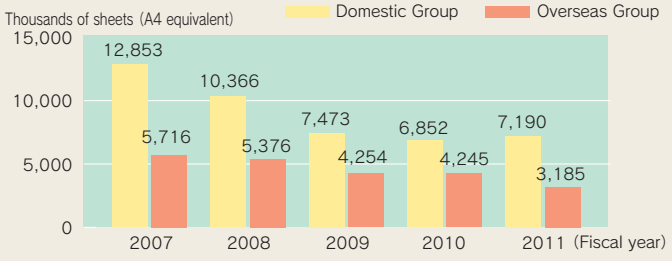
Resource-saving Activities

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

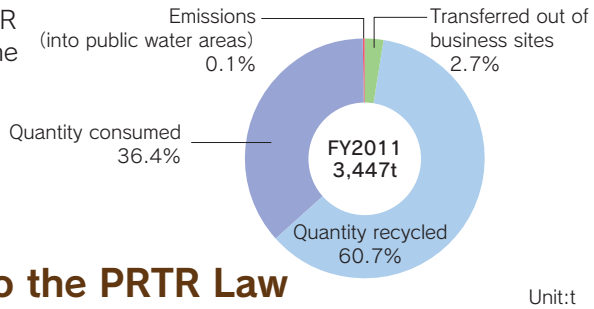


Compliance with the PRTR Law

Since 1998, CMK has been collecting and disclosing data on quantities of chemicals discharged and transferred based on the PRTR method. In FY2011, CMK conducted a study on PRTR substances after the law was revised, and submitted a report on the quantities of 11 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 2011 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			
16	2-aminoethanol	1.2	0.0	0.0	0.0	0.0	0.9	0.0	0.4	Used in copper-plating process
71	ferric chloride	2,363.0	0.0	0.0	0.0	0.0	0.0	1,463.3	899.7	Used in etching and nickel plating processes
300	toluene	2.3	1.4	0.0	0.0	0.0	0.9	0.0	0.0	Thinner for use in surface finishing (for resin preflux)
309	nickel compounds	1.3	0.0	0.8	0.0	0.0	0.0	0.0	0.5	Component of nickel plating (base for gold plating) fluid
272	copper salts (water-soluble, except complex salts)	800.8	0.0	3.0	0.0	0.0	42.2	618.6	137.0	Generated during copper etching
291	1,3,5-tris (2,3-epoxypropyl) -1,3,5-triazine-2,4,6 (1H,3H,5H) -trione	2.8	0.0	0.0	0.0	0.0	1.5	0.0	1.3	Hardener for resist inks
304	lead	17.6	0.0	0.0	0.0	0.0	0.1	10.1	7.4	Solder precoat
412	manganese and its compounds	1.6	0.0	0.2	0.0	0.0	0.1	0.0	1.3	Water treatment (iron removal)
395	water-soluble salts of peroxodisulfuric acid	215.5	0.0	0.0	0.0	0.0	45.7	0.0	169.8	Used in plating pretreatment process
411	formaldehyde	34.7	0.4	0.3	0.0	0.0	2.6	0.0	31.4	Component of copper plating fluid
438	methylnaphthalene	16.5	0.1	0.0	0.0	0.0	0.0	0.0	16.4	A component of A-Heavy Oil
Total		3,457.3	1.9	4.2	0.0	0.1	94.0	2,092.1	1,265.2	

FY 2011 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 soi	Into sewerage	Out of business site		
G Station Factory									
71	ferric chloride	405.23	0	0	0	0	0	266.88	138.35
272	opper salts (water-soluble, except complex salts)	120.11	0	1.29	0	0	0.04	118.78	0
291	1,3,5-tris (2,3-epoxypropyl) -1,3,5-triazine-2,4,6 (1H,3H,5H) -trione	1.67	0	0	0	0	1.17	0	0.50
395	water-soluble salts of peroxodisulfuric acid	94.67	0	0	0	0	0	0	94.67
411	formaldehyde	14.23	0	0.08	0	0	0.15	0	14.00
412	manganese and its compounds	1.65	0	0.21	0	0	0.12	0.02	1.30
438	methylnaphthalene	11.38	0.06	0	0	0	0	0	11.32
KIBAN Center Factory									
71	ferric chloride	440.55	0	0	0	0	0	295.43	145.12
272	copper salts (water-soluble, except complex salts)	153.65	0	0.28	0	0	0	153.37	0
291	1,3,5-tris (2,3-epoxypropyl) -1,3,5-triazine-2,4,6 (1H,3H,5H) -trione	1.09	0	0	0	0	0.33	0	0.76
395	water-soluble salts of peroxodisulfuric acid	19.86	0	0	0	0	0	0	19.86
438	methylnaphthalene	5.13	0.03	0	0	0	0	0	5.10
Niigata Satellite Factory									
71	ferric chloride	676.00	0	0	0	0	0	676.00	0
272	copper salts(water-soluble, except complex salts)	5.37	0	0	0	0	0	2.36	3.01
309	nickel compounds	1.34	0	0.80	0	0	0	0	0.54
411	formaldehyde	10.18	0.40	0	0	0	0	0	9.78
CMK PRODUCTS CORPORATION									
71	ferric chloride	514.49	0	0	0	0	0	225.00	289.49
272	copper salts(water-soluble, except complex salts)	34.77	0	0	0	0.04	1.24	16.23	17.26
300	toluene	2.32	1.42	0	0	0	0.90	0	0
411	formaldehyde	3.00	0	0	0	0.03	2.27	0	0.70
CMK KANBARA ELECTRONIC CORPORATION JAPAN									
16	2-aminoethanol	1.23	0	0	0	0	0.85	0	0.38
71	ferric chloride	79.30	0	0	0	0	0	0	79.30
272	copper salts(water-soluble, except complex salts)	460.20	0	0.40	0	0	15.20	327.90	116.70
304	lead	17.60	0	0	0	0	0.10	10.10	7.40
395	water-soluble salts of peroxodisulfuric acid	88.70	0	0	0	0	45.70	0	43.00
411	formaldehyde	5.47	0	0.06	0	0	0.20	0	5.21
YAMANASHI SANKO CO.,LTD.									
71	ferric chloride	247.47	0	0	0	0	0	0	247.47
272	copper salts(water-soluble, except complex salts)	26.69	0	1.00	0	0	25.69	0	0
395	water-soluble salts of peroxodisulfuric acid	12.25	0	0	0	0	0	0	12.25
411	formaldehyde	1.83	0	0.12	0	0	0	0	1.71

※Technical Center Factory and CMK MECHANICS CORPORATION 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

Energy Conservation Initiatives at CMK PRODUCTS CORPORATION

Inverter control panel

· Conserving energy by developing an inverter for jet pumps

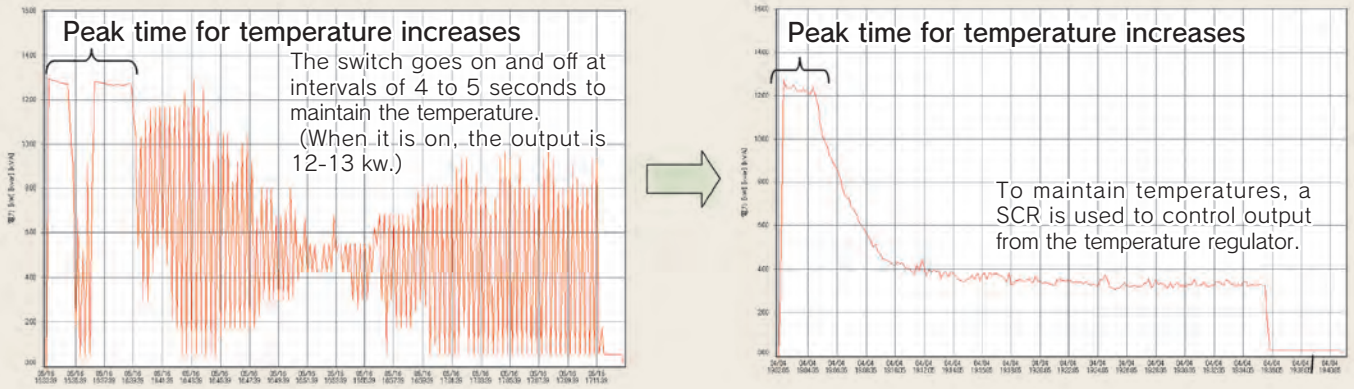
The company has reduced electricity consumption by developing an inverter for jet pumps.
By using the inverter to control and adjust frequencies, the company has been able to halve electricity consumption, and to reduce expenditure on electric power by 3 million yen a year (*).

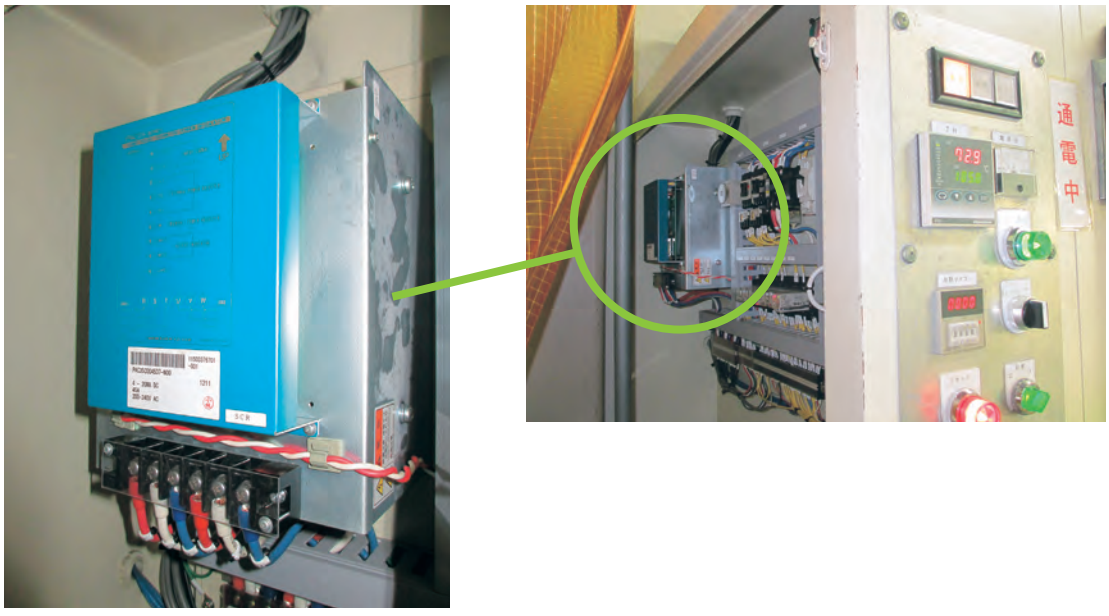
* Calculations are based on 343 days after deducting 22 stoppage days in the year. Installation costs are recovered in about 3 months.

· Conserve energy by controlling drying kilns with a thyristor

Aiming to control peak-time electric power, the company installed and remodeled thyristors for the drying kilns.
The results are shown in Fig. 1. Using a wattmeter to compare measurements, the company found that they were able to reduce electricity consumption by approximately 193,000 yen a year.
Since they had been using a magnetic switch that had to be replaced frequently, they were also able to cut costs because it was no longer needed.

Fig. 1





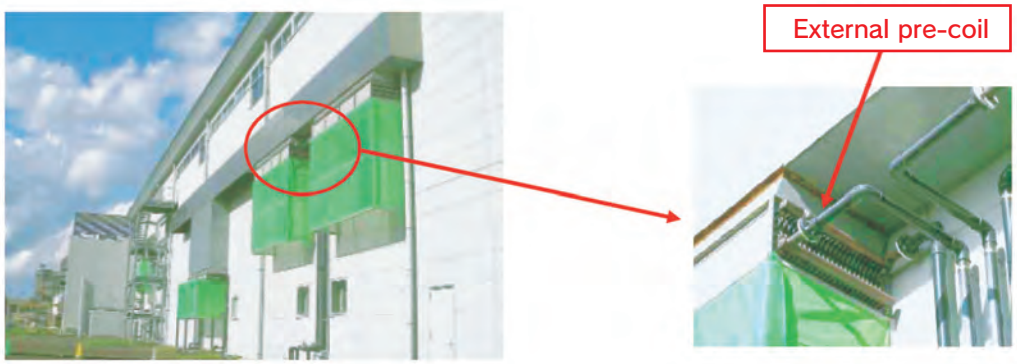
YAMANASHI SANKO CO., LTD.　Conserving energy by introducing new equipment and reviewing equipment for the resist spray process

The company was able to make big reductions in electricity consumption by installing new equipment and reviewing the equipment for the resist spray process.
Previously, there were both upstream and downstream lines for the spray coating process, and each line also had a drying line. But by introducing a line with electrostatic spray, it is now possible to coat both the front and back at the same time. As a result, only one drying line is needed, which has contributed greatly to cutting back on electricity consumption.
Moving the silk printing process from the factory at the head office to the spray factory, and reviewing the equipment have also reduced electricity consumption. Replacing the conventional heating and drying furnaces with far-infrared drying furnaces has resulted in 30% energy savings.

Energy Conservation Initiatives at CMK MULTI CORPORATION

・Well water　Conserve energy by pre-cooling ・・・ Summer use of well water used to clear snow in winter

During the winter, six pumps draw groundwater for clearing snow at CMK MULTI CORPORATION.
The water was not used at other times of the year, but by installing coils in the air ducts of the outdoor air conditioning units for summer, the company operated two air conditioning units by passing well water through the coils, cooling to 20℃ by pre-cooling with 15℃ well water. As a result, the company conserved energy and reduced gas and electricity consumption by stopping one cool-warm water generator and cold water pumps.
As a result of this initiative, the company has reduced power consumption in summer by approximately 71,000 KWh and gas consumption by approximately 55,000 Nm^3.



・Conserve energy by developing inverters for ventilators and outdoor air conditioning units

When the motors for 13 ventilators and outdoor airconditioning units were inspected and air volumes were compared, it was found that utilization rates were 30 to 70%.
Air volume had been regulated with dampers due to excess supply and exhaust, but by developing an inverter, the company conserved energy by controlling appropriate levels of supply and exhaust volumes.
As a result, power consumption was reduced by approximately 740,000 KWh per year.

Inverter control panel

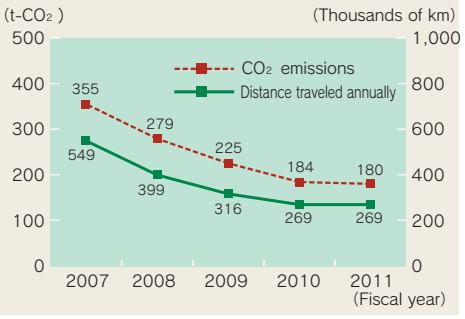
Office and distribution case studies

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.
During the 2011 fiscal year, both distances traveled and CO_2 emissions decreased year-on-year due to optimized management of in-house shipments

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 NOx 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.

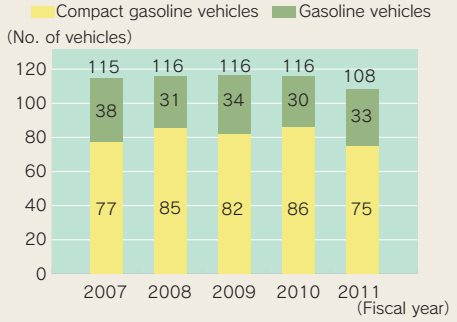
CO_2 emissions by internal distribution



Environmental Measures for Company Cars

With the enactment of the Automobile Nox and PM Law in October 2003,use of non-compliant diesel vehicles is subject to regulation in designated regions.In response to these restrictions,CMK switched the diesel vehicles in its sales fleet to gasoline-powered vehicles (Full switch as of FY 2006) .
At the same time, it worked to reduce CO_2 emissions by switching to small gasoline-powered vehicles (using engines of 1300cc or less) with high fuel efficiency and low emissions.
As a result, the company owns 75 gasoline-powered compact cars, and 33 gasoline-powered cars.

Change in company 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℃.
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 annual “no-necktie” program has continued, though now under the new “cool biz” designation
By promoting environmental protection programs in which all employees can readily participate, CMK seeks to raise environmental awareness among all of its employees.

Green Purchasing Activities

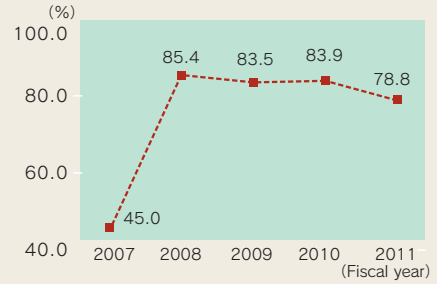
CMK promotes environmentally sound procurement of office supplies through the positioning of Green Procurement.
We have also established greenpurchasing guidelines, referring to information provided by the Green Purchasing Network (GPN) and Eco Mark, recording all relevant purchase data.
FY2011, we expanded the scope of confirming green purchasing ratios to all the domestic CMK Group companies.
The green purchasing ratio for FY 2011 was 78.8%.

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.

Trends in green purchasing ratio



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).
※Graph data is derived from CMK CORPORATION records. We made partial changes to the scope of calculations in FY 2008 and FY2011.

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 31,2012)

Related license	No. of persons
Boiler Operator (Special grade, First grade, Second grade)	39
Cheaf Electricity Engineers (First Class,Second Class,Third Class)	7
Qualified Energy Manager	14
Type2 Energy Managers	2
Air Pollution Control Manager	4
Water Pollution Control Manager	31
Noise Pollution Control Manager	13
Vibration Pollution Control Manager	15
Refrigeration Safety Manager (Class 2)	2
Refrigeration Safety Manage (Class 3)	5
Hazardous Materials Engineer (Class A,Class B,Class C)	220
Fire Protection Manager	32
Specially-Controlled Industrial Waste Control Manager	25
Technical Manager of Waste Treatment Plant	7
Manager for Handling of Poisonous and Deleterious Substances	16
Health Officer	58
Operation chief of industrial dryer	152
Operation chief of using organic solvents	213
Persons having completed the boiler-operation training course	29
Operation chief of boiler operation	14
Operation chief of using specified chemical substances	193
Operation chief of lead danger	11
Operation chief of press machines	36
Total	1,138

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 the Recovery and Destruction of Fluorocarbons
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, 2012)

Japan	54
Overseas	6
Total	60

◆Number of internal environmental auditors
(as of the end of March, 2012)

Japan	219
Overseas	74
Total	293

Environment Slogan

Formulation of the FY 2012 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 1,315 entries, the FY 2012 slogan is " Eco-Activities, Bonds which connect the earth and a person . "

Biodiversity Conservation Activities

In May 2010, we included biodiversity conservation activities in our basic environmental policy and have been striving to build a society that coexists with nature by promoting preservation and sustainable use of biodiversity through internal education and educational activities, such as with explanatory sessions on green purchasing. Specifically, we established the Gunma District Biodiversity Promotion Committee in May 2011, under which we have conducted surveys on the impact of our facilities on biodiversity. As a social contribution activity, we have participated in Isesaki City' s program for registering manager-owners of red pines in order to protect these trees in the city. We will be expanding this activity to other facilities.

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.
The Environment page on the CMK website has been renamed the Society and Environment page and now features the CSR Report as well as information on environmental programs and initiatives.

CSR Report

Customer relations

Green accreditatio from customer

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

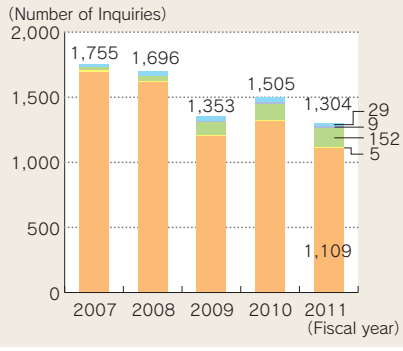
Customer Inquiries

The Environmental Promotion Department, which serves as a customer service center for environmental affairs, received 1,304 customer inquiries and requests in FY 2011.

(Fiscal year)

Division	2007	2008	2009	2010	2011
Regulated chemicals	1,688	1,607	1,196	1,315	1,109
Acquisition of ISO14001 certification	16	14	9	6	5
Green procurement	25	39	103	129	152
CSR Questionnaires	3	5	5	9	9
Others	23	31	40	46	29

Inquiry number transition



Providing Information in the Form of Material Safety Data Sheet (MSDS)

The enactment of the PRTR Law brought many requests for CMK product information to be presented in MSDS format.
Because our products are not subject to mandatory MSDS disclosure by the PRTR Law, we do not issue MSDS for them. (This view is shared by the Japan Printed Circuit Association.)
Nevertheless, we diligently disclose product environmental information in formats not restricted to MSDS.

Inquiries Regarding Life Cycle Assessment

With the goal of producing environmentally sensitive products, many CMK customers introduce the life-cycle assessment (LCA) method to assess their production processes and the components they purchase.
As part of these efforts, CMK is working to adopt the LCA method in production processes for its products in order to provide customers with the data they need.

Environmental Load Data for Production Bases

Upper line : Name of business site / Lower line : Production item or business line	Energy performance			Waste performance		Resource consumption performance		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	pH	BOD	COD	SS	n-hexane (mineral oil)	n-hexane (animal/plant oil)	Coli bacillus	Specified facility name								
	t-CO_2	Thousands of kWh	kℓ in crude oil equivalent	%	t	Thousands of m^3	Thousands of sheets (A4 equivalent)	–	mg/ℓ	mg/ℓ	mg/ℓ	mg/ℓ	mg/ℓ	No.of bacteria/cm^3	NOx	SOx	Soot	NOx	SOx	Soot			
G Station Factory	14,829	32,636	964	100.0%	3,378	1,472	1,300	7.8 (6.0~8.4)	14(20)	28(35)	3(30)	1(4)	1(4)	<100 (1000)	Boiler			–					
Built-up, Rigid-flex, Multilayered PWBs															97ppm(140)	0.36Nm^3/h (k value8.0)	0.022g/Nm^3 (0.24)	–					
Technical Center Factory	1,014	2,704	0	100.0%	17	6	113	7.7 (6.6~8.4)	1(14)	2(20)	2(10)			96 (1000)	No applicable equipment								
Research and development facility																							
KIBAN Center Factory	10,595	25,175	430	100.0%	3,070	898	407	8 (6.4-8.4)	8(9)	12(20)	3(9)	1(3)		0 (800)	Warm water boiler			Scrubber					
Built-up, Rigid-flex and Multilayered PWBs															120ppm(120)	0.92Nm^3/h (k value6)	<0.0076 (0.12g/Nm^3)	CL: 4(20)	HCL: <1mg/Nm^3(50)	–			
Niigata Satellite Factory	43,533	77,626	5,293	99.1%	5,603	3,757	2,240	7.5 (6-7.8)	23(29.5)	8.7(24.5)	9(20)	0(4)	1(4)	31 (2500)	Steam boiler/Cold/warm water generator			–					
Built-up, Multilayered PWBs															57ppm(58)	–	0g/m^3N (0.06)	–					
CMK PRODUCTS CORPORATION	4,220	10,411	239	100.0%	5,029	115	1,296	8.0 (6.0-8.4)	22(250)	–	7(250)	–	–	–	No applicable equipment								
Trial manufacture of printed wiring boards																							
CMK KANBARA ELECTRONIC CORPORATION JAPAN	18,244	36,224	1,352	100.0%	5,449	615	1,488	7.3 (6-8.4)	27(45)	46(50)	6(30)	2(4)	2(25)	530 (1500)	Gas-fired absorption-type cool-warm water generator			Gas-fired compact once-through steam boiler					
Multilayered and Double-sided PWBs															57ppm(80)	–	0g/m^3N (0.06)	28volppm (80)	0.014Nm^3/h (15.9)	0.006g/Nm^3 (0.06)			
CMK MECHANICS CORPORATION	386	1,023	1	100.0%	80	1	119		–	–	–	–	–	–	No applicable equipment								
Press molds, divided molds, installation tools																							
YAMANASHI SANKO CO.,LTD.	3,952	9,529	144	100.0%	755	266	225	7.8 (6.5-8.0)	28(29.5)	39	30(40)	<0.5(-)	<0.5(-)	85	Ebara Steam boiler			–					
Multilayered and Double-sided PWBs															75ppm(100)	<5ppm(5)	<0.005g/m^3N (0.1)	–					
CMKS (MALAYSIA) SDN.BHD.	4,358	7,852	0	35.9%	114	74	166	8.4 (5.5-9.0)	33(50)	130(200)	23(100)	–	–	–	AIREMMISSION FOR SCRUBBER			AMBIENT AIR MONITORING					
Metallic Substrates															0.001ppm (0.2)	0.005ppm (0.2)		130.5ppm (260)	825ppm (150)				
CMKC (DONG GUAN) LTD.	27,212	44,270	994	100.0%	3,240	891	688	7.86 (6-9)	–	–	–	–	–	–	No applicable equipment								
Multilayered and Double-sided PWBs																							
CMK ELECTRONICS (WUXI) CO.,LTD.	26,134	41,844	1,406	87.1%	3,952	830	897	7.56 (6-9)	–	45(50)	24(30)	–	–	–	Waste gas outlet			Boiler exhaust					
Built-up and Multilayered PWBs															2.4mg/m^3 (260)	1.66mg/m^3 (45)	–	70mg/m^3 (200)	15mg/m^3 (200)	34.2 (50)			
CMK CORPORATION (THAILAND) CO., LTD.	19,511	84,034	1,282	85.9%	3,462	2,784	1,433	7.3 (5.5-9)	19(500)	85(750)	8(200)	–	–	–	Steam boiler			Heating medium boiler					
Built-up, Multilayered and Double-sided PWBs Upper line:Name of business site Lower line:Production item or business line															60.7ppm (200)	–	4.9mg/m^3 (320)	64.7ppm (200)	–	5.1mg/m^3 (320)			

· The indicated air and water quality measurement values represent the highest values obtained .· Figures in parentheses are voluntary regulation values. · Measurements of harmful substances specified in the Water Pollution Control Law were below the standard values.