

KOKUYO Group CSR Report 2016

CSR Data

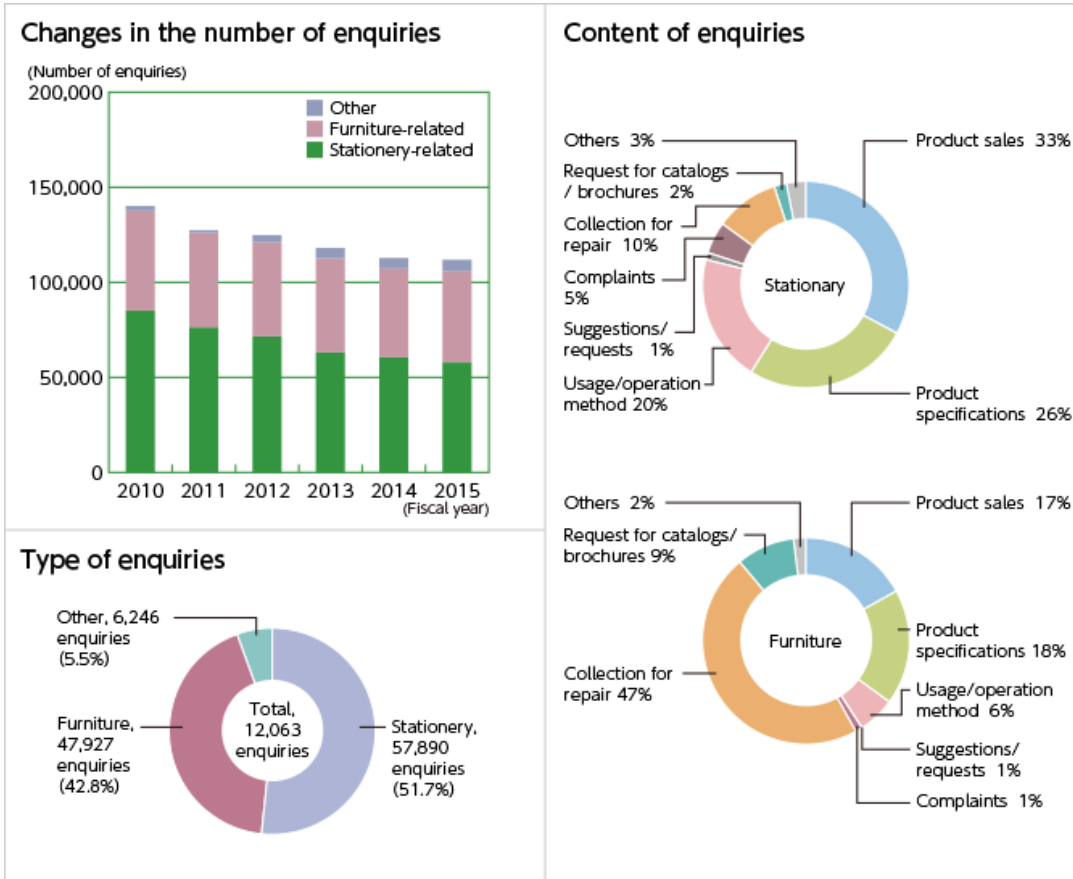
KOKUYO

Society

■ Reporting period

January 1 to December 31 of the applicable year (results are denoted by figures that are current as of December 31)

■ Reflecting the views of customers



Employee-related data

Non-consolidated/consolidated

		Subject	FY 2012	FY 2013	FY 2014	FY 2015
Number of Executives	Inside	Non-consolidated	3	3	5	5
	Outside	Non-consolidated	3	3	4	3
Number of Directors	Inside	Non-consolidated	2	2	2	2
	Outside	Non-consolidated	2	2	2	2
Number of Employees * Including regular employees and a part of contracted employee	Male	Consolidated	4,756	4,660	5,071	4,877
	Female	Consolidated	1,733	1,739	1,602	1,791
	Total	Consolidated	6,489	6,399	6,673	6,668
	Male	Non-consolidated	219	207	222	1,501
	Female	Non-consolidated	128	133	126	486
	Total	Consolidated	347	340	348	1,987
	Foreign employees in domestic establishments	Non-consolidated	11	14	4	16
Number of non-regular employees * Figures in parentheses denote the percentage of the workforce accounted for by non-regular employees.		Consolidated	2,335 (26.5%)	2,159 (25.23%)	2,153 (24.39%)	2,232 (25.07%)
Employment of physically challenged persons		Special subsidiaries	2.27%	2.24%	2.14%	2.12%

Major Companies

Subjects: KOKUYO Co., Ltd., KOKUYO Marketing Co., Ltd., KAUNET Co., Ltd., KOKUYO Engineering & Technology Co., Ltd., KOKUYO Logitem Co., Ltd., KOKUYO Supply Logistics Co., Ltd.

		FY 2012	FY 2013	FY 2014	FY 2015
Number of employees by generation	Less than 30	331	308	281	280
	30-39	960	867	765	676
	40-49	1,514	1,600	1,563	1,550
	50-59	671	694	704	800
	60 or older	76	103	131	148
	Total	3,552	3,572	3,444	3,454
Average age	Male	43.74 years	44.28 years	44.86 years	45.46 years
	Female	37.13 years	37.64 years	37.75 years	38.35 years
	Average	42.43 years	42.95 years	43.42 years	44.02 years
Average length of service	Male	18.52 years	18.91 years	19.15 years	19.74 years
	Female	13.18 years	13.56 years	13.41 years	13.96 years
	Average	17.46 years	17.84 years	17.99 years	18.57 years
Graduate recruitment (Record)	Male	26	20	32	35
	Female	20	19	22	26
	Total	46	39	54	61
Mid-career recruitment (Record)	Male	16	37	33	13
	Female	0	10	8	5
	Total	16	47	41	18
Turnover rate * Excluding employees who resign on reaching the mandatory age of retirement	Male	1.13%	1.29%	1.23%	1.38%
	Female	3.17%	3.63%	3.17%	3.87%
	Total	1.54%	1.75%	1.61%	1.89%
Post appointments	(Male) Executives and above	25	28	29	20
	(Male) Department heads	167	164	122	122
	(Male) Section chiefs	729	738	715	733
	(Male) Sub-section chiefs	1,172	1,181	1,072	1,083

		FY 2012	FY 2013	FY 2014	FY 2015
Post appointments	(Female) Executives and above	0	0	1	2
	(Female) Department heads	1	1	1	3
	(Female) Section chiefs	25	29	29	33
	(Female) Sub-section chiefs	147	157	176	182
	(Female) Percentage of workforce in management positions (section chief and above)	2.82%	3.22%	3.46%	4.04%
	(Foreign nationals) Executives and above	0	0	0	0
	(Foreign nationals) Department heads	0	0	0	0
	(Foreign nationals) Section chiefs	2	2	1	2
	(Foreign nationals) Sub-section chiefs	1	3	4	4
	Number of employees taking child-care leave	Male	1	2	1
Female		71	64	64	80
Total		72	66	65	80
Number of employees taking nursing-care leave	Male	0	0	0	1
	Female	0	0	0	0
	Total	0	0	0	1
Paid leave acquisition rate * Number of days taken in current year (including portion carried forward from preceding year) / number of days granted in current year (not including portion carried forward from preceding year)		41.12%	45.94%	49.96%	46.28%
Yearly education and training costs per employee		61,862 yen	57,330 yen	52,305 yen	35,570 yen

Labor health and safety

Subjects: KOKUYO Co., Ltd. Mie Plant and Shibayama Plant, KOKUYO Product Shiga Co., Ltd., KOKUYO MVP Co., Ltd., IWAMI Paper Industry Co., Ltd.

	FY 2012	FY 2013	FY 2014	FY 2015
Number of work-related accident cases	7	5	7	11
Work-related accident frequency rate	3.33%	2.26%	3.12%	5.04%
Work-related accident severity rate	0.096%	0.033%	0.062%	0.003%
Number of days off resulting from a work-related accident	>202	72	139	7

Environmental Performance Data

■ **Period covered**

Fiscal 2014 (January 1, 2014, to December 31, 2014)

■ **Guidelines Used for Reference**

Ministry of the Environment, Environmental Report Guidelines (2012 Edition)

Ministry of the Environment, Environmental Accounting Guidelines (2005 Edition)

Global Reporting Initiative (GRI), Sustainability Reporting Guidelines

■ **Organizational Units Covered**

Beginning with 2012, the scope of coverage was extended to all consolidated subsidiaries.

However, since the targets for 2014 were set for the companies in Group A shown in the table below, only data on this group has been disclosed here.

		Consolidated subsidiaries	Other subsidiaries and affiliates
B	A	KOKUYO Co., Ltd.	
		KAUNET Co., Ltd., KOKUYO Marketing Co., Ltd., KOKUYO Engineering & Technology Co., Ltd., KOKUYO Supply Logistics Co., Ltd. KOKUYO Logitem Co., Ltd., KOKUYO Product Shiga Co., Ltd., KOKUYO MVP Co., Ltd., KOKUYO Vietnam Co., Ltd., KOKUYO (Malaysia) Sdn. Bhd., KOKUYO Finance Co., Ltd.	KOKUYO K Heart Co., Ltd., KOKUYO-IK (Thailand), KTL
		LmD International Co., Ltd., ACTUS Co., Ltd., KOKUYO (Shanghai) Management Co., Ltd., KOKUYO Commerce (Shanghai) Co., Ltd., KOKUYO Furniture (China) Co., Ltd., KOKUYO Design Consultants (Shanghai) Co., Ltd., KOKUYO International Asia Co., Ltd., KOKUYO International (Malaysia) Co., Ltd., KOKUYO Vietnam Trading Co., Ltd., KOKUYO Camlin Co., Ltd.	KOKUYO Hokkaido Sales Co., Ltd., KOKUYO Tohoku Sales Co., Ltd., KOKUYO Kitakanto Sales Co., Ltd., KOKUYO Tokai Sales Co., Ltd., KOKUYO Hokuriku Niigata Sales Co., Ltd., KOKUYO Sanyo-Shikoku Sales Co., Ltd., Heartland Co., Ltd.

A: The scope of coverage through fiscal 2011 was Group A and included KOKUYO Co, Ltd., 12 consolidated subsidiaries, and 3 other subsidiaries and affiliates.

B: The scope of coverage from fiscal 2012 is Group B and includes KOKUYO Co., Ltd., 20 consolidated subsidiaries, and 10 other subsidiaries and affiliates.

Even though KOKUYO S&T and KOKUYO Furniture were integrated with KOKUYO Co. Ltd in October 2015, there is no impact on the environmental performance data disclosed.



2015 Actual Achievements

Environmental policy	Goals and results for 2015		Evaluation
	Goals	Actual achievements	
Prevention of global warming	Reduction of CO ₂ emissions Total year-on-year reduction in volume: +0.2% (Excluding impact of production: ▲2%)	▲3.1% Excluding impact of production: (▲4.6%)	○
	Year-on-year change in unit energy consumption: ▲1.8% (compared to 2010: ▲10.4%)	Per unit of sales: ▲5.3% (compared to 2010: ▲13.7%)	○
Resources saving & recycling	Improve the accuracy of data on waste materials at worksites Clarification of losses (production)	Recycling rate <ul style="list-style-type: none"> Waste materials produced by business offices: 96.8% Waste materials produced at construction sites: 84.8% Clarified "negative loss", "inventory loss" and "time loss".	○
Procurement, development, and offering of eco-friendly products	Maintain eco x zero	Continuing to maintain	○
Information disclosure and communication	Enhance information disclosure of activities relating to biodiversity	<ul style="list-style-type: none"> Nikkei Environmental Management Survey: 95 points (83 points in the previous survey) for pollution control and biological diversity The CSR Report 2015 won the Award of excellence at the 19th Environmental Communication Awards. 	○
Environmental management	ISO14001: Complete the preparation for transition to the 2015 version	ISO14001: Revised to "Manuals", "Regulations", "Reports" to correspond with the 2015 edition and completed the preparation for transition.	○

* As goals have been set based on Group A for organizations subject to reporting, actual achievements for such organizations have been disclosed.



Environmental friendliness efficiency indicators

The KOKUYO Group designates unique environmental friendliness efficiency indicators as indices that can comprehensively evaluate financial performance and impact on the global environment. These indicators indicate the extent to which products and services are being offered to society with respect to specific environmental loads and correspond to the following four items.

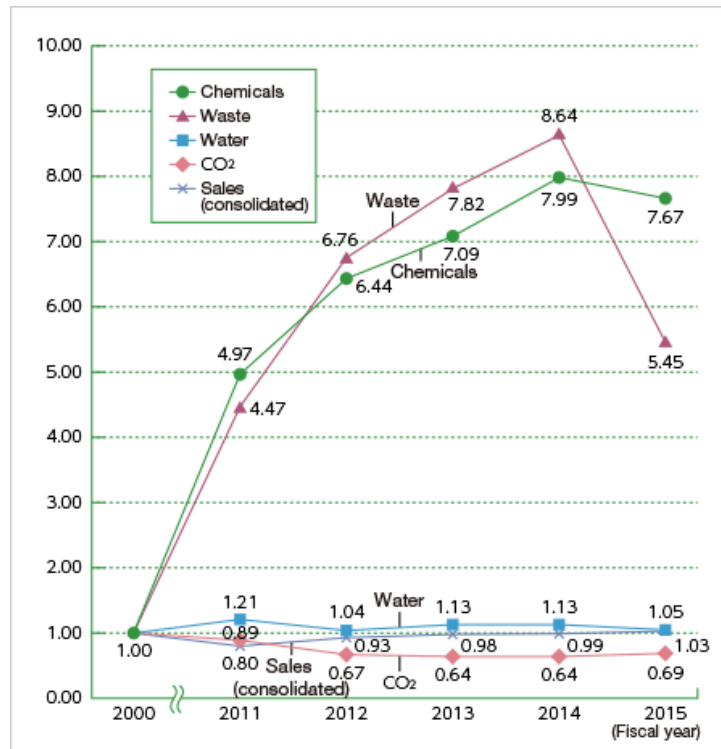
Environmental friendliness efficiency indicator =

$$\frac{\text{current fiscal year (sales / environmental load data)}}{\text{baseline fiscal year (sales / environmental load data)}}$$

1. CO₂ emissions
2. Final waste disposal
3. Usage of chemical substances subject to PRTR regulations
4. Water usage

Fiscal 2000 is taken as the baseline for each indicator and the progress status for each fiscal year can be determined.

Environmental friendliness efficiency indicators



* The scope of reporting coverage through fiscal 2011 was [Group A](#). From fiscal 2012, the scope of reporting coverage was expanded to [Group B](#).

* Chemical substances have been calculated according to the amount handled of Class I Designated Chemical Substances as provided for in the PRTR Law used by the place of business subject to notification as provided for in the PRTR Law.

* The third party verification pointed out that a part of the data on waste materials of KOKUYO Vietnam was omitted from the report calculations. From 2015, this data is included in the report.

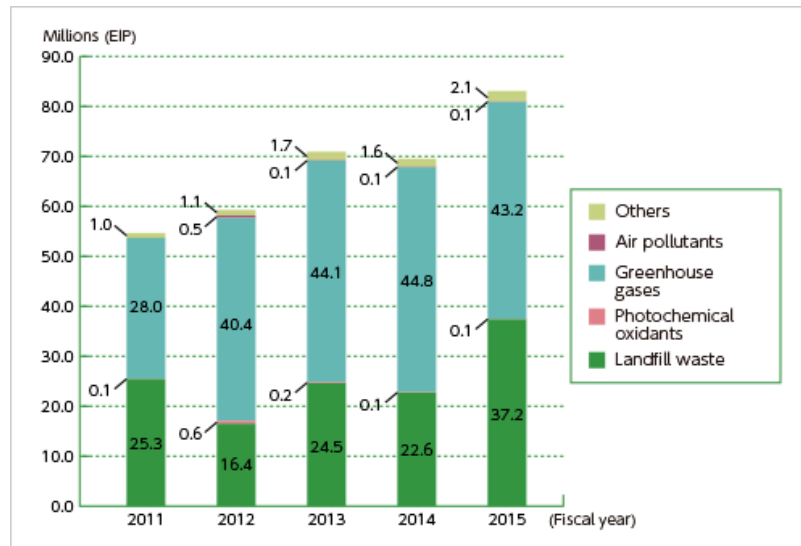


About JEPIX

JEPIX (Japan Environmental Policy Index) is a method of quantifying the amount of different types of environmental loads, such as greenhouse gas emissions and air pollutants as single indicators called Environmental Impact Points (EIP). The EIP is calculated by multiplying the environmental load for each environmentally harmful chemical by the integrated coefficient calculated from the ratio between Japan's environmental policy target and the actual amount of emissions (environmental friendliness factor).

$$\text{Environmental impact point (EIP)} = \sum (\text{environmental loads} \times \text{environmentally friendliness factors})$$

JEPIX

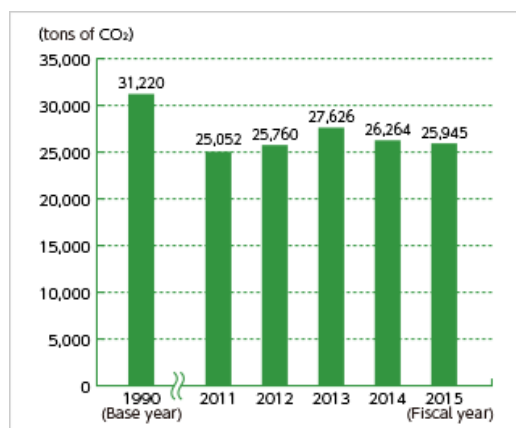


* The scope of coverage through fiscal 2011 was [Group A](#). From fiscal 2012, the scope of reporting coverage was expanded to [Group B](#).



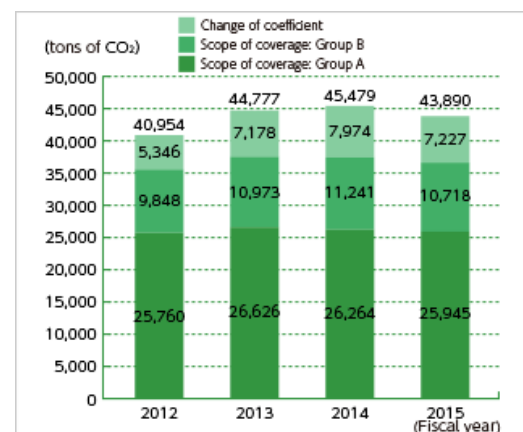
Global warming preventive measures

CO2 emissions transition



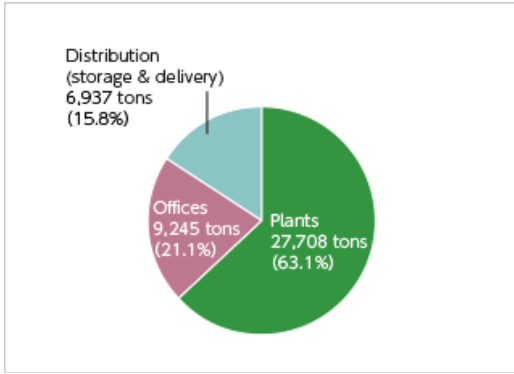
* These figures cover [Group A](#).

CO2 emissions transition

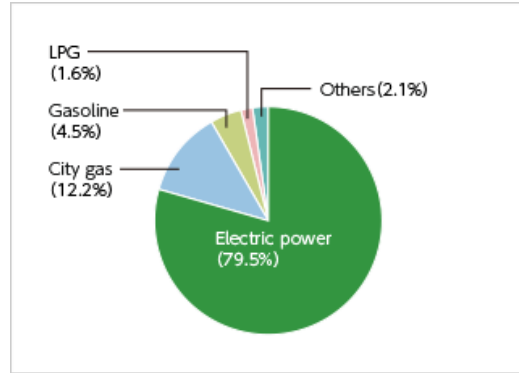


* The scope of coverage through fiscal 2011 was [Group A](#). From fiscal 2012, the scope of reporting coverage was expanded to [Group B](#).

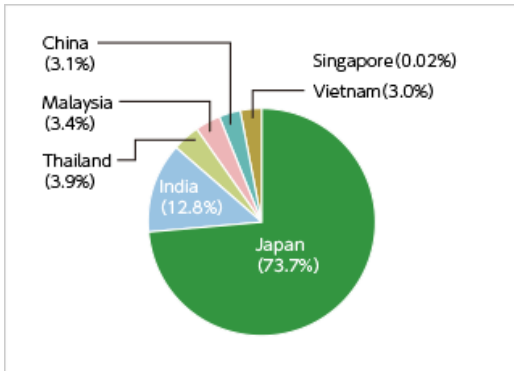
Volume of CO2 emissions according to sources of emissions



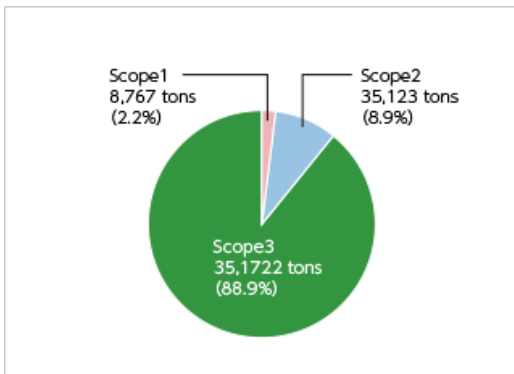
Volume of CO2 emissions according to types of emissions



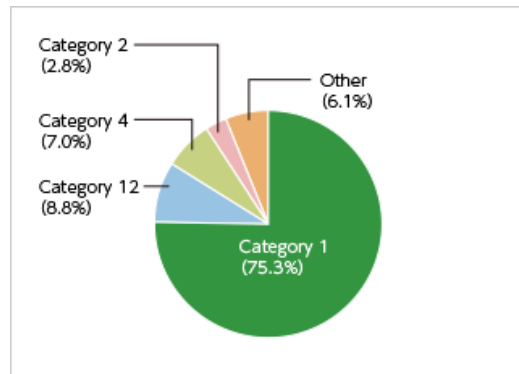
CO2 Emission Volume by Country



Volumes of greenhouse gases emitted by the supply chain (emission volumes by scope)



Volumes of greenhouse gases emitted by the supply chain (emission volume for Scope 3)



Scope 3 categories and emission volumes

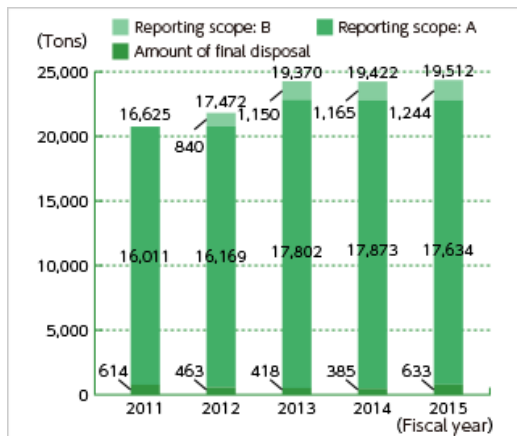
Category		Applicable / not applicable	Reason for non-applicability	Scope 3 emission volume	As percentage of total
Category 1	Purchased product / service	Applicable	-	264,712	75.3%
Category 2	Capital goods	Applicable	-	9,814	2.8%
Category 3	Fuel not included in Scope 1 or 2 and energy-related activities	Applicable	-	3,979	1.1%
Category 4	Shipping and delivery (upstream)	Applicable	-	24,461	7.0%
Category 5	Waste materials generated by businesses	Applicable	-	3,665	1.0%
Category 6	Business trips	Applicable	-	867	0.2%
Category 7	Commutation by workers	Applicable	-	2,323	0.7%
Category 8	Leased assets (upstream)	Not applicable	Included in Scope 1 / 2	-	0.0%
Category 9	Shipping and delivery (downstream)	Not applicable	Included in Category 4	-	0.0%
Category 10	Processing of sold products	Not applicable	KOKUYO is a manufacturer of completed products and does not deal with intermediate products	-	0.0%
Category 11	Use of sold products	Applicable	-	7,874	2.2%
Category 12	Discarding of sold products	Applicable	-	30,786	8.8%

Category		Applicable / not applicable	Reason for non-applicability	Scope 3 emission volume	As percentage of total
Category 13	Leased assets (downstream)	Applicable	-	3,241	0.9%
Category 14	Franchises	Not applicable	No franchises	-	0.0%
Category 15	Investments	Not applicable	KOKUYO is not an investment company	-	0.0%
Total		-	-	351,722	-



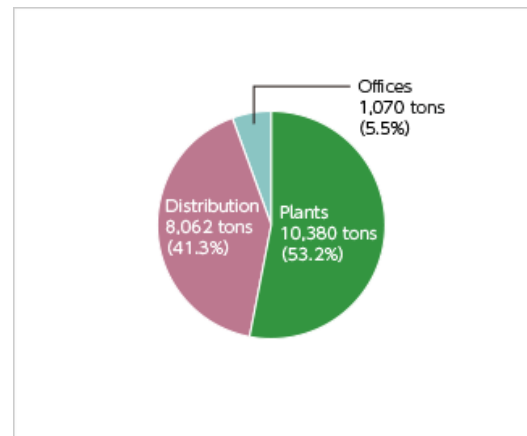
Resource saving & recycling measures

Waste materials recycling amount and final disposal amount

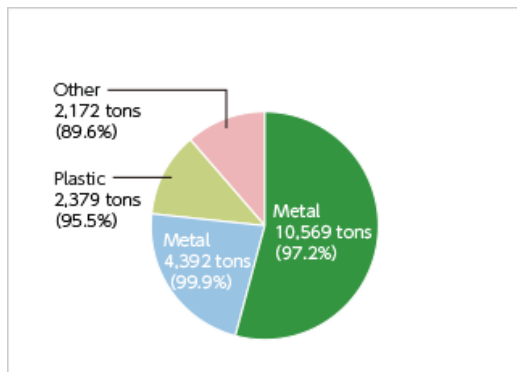


* The scope of coverage through fiscal 2011 was [Group A](#). From fiscal 2012, the scope of reporting coverage was expanded to [Group B](#).

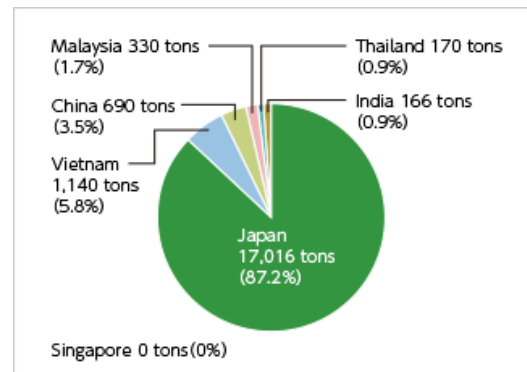
Source of waste materials



Types of waste materials (Figures in parentheses denote recycling rate)



Emissions by Country





Chemical substances subject to PRTR Law

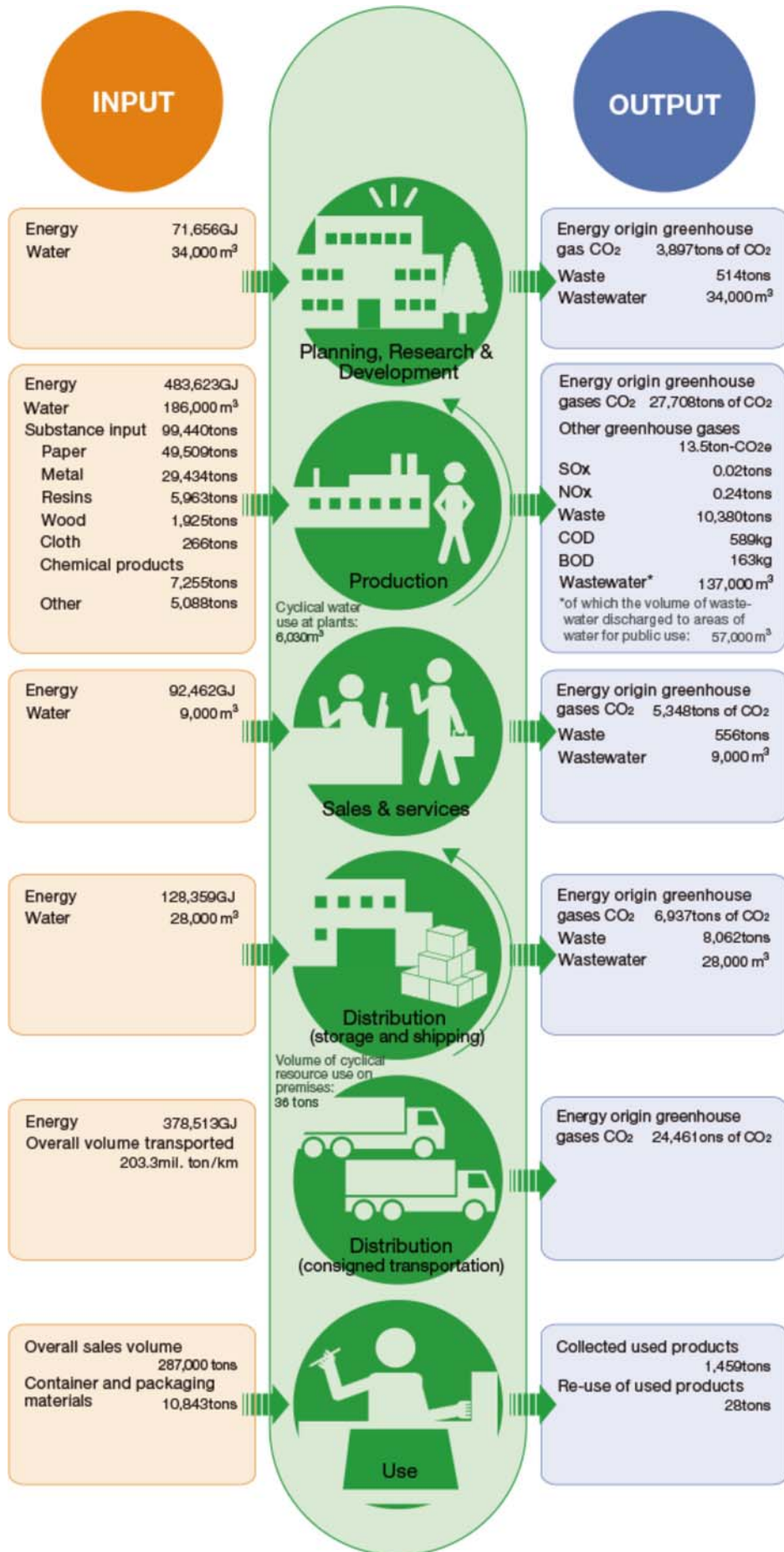
Official No.	Chemical name	Vol. handled · kg	Vol. released · transferred					Vol. treated · kg	Vol. consumed /kg
			Vol. released to air · kg	Vol. Released in public bodies of water / kg	Vol. transported in sewers / kg	Vol. released to land · kg	Sub-total · kg		
1	Zinc compounds (water-soluble)	226.4	0.0	0.0	0.0	0.0	0.0	226.4	0.0
20	2-aminoethanol	28.0	26.6	1.4	0.0	0.0	28.0	0.0	0.0
53	Ethylbenzene	1.2	1.2	0.0	0.0	0.0	1.2	0.0	0.0
71	Ferric chloride	14,484.0	0.0	0.0	0.0	0.0	0.0	14,484.0	0.0
80	Xylene	37.7	28.2	0.0	0.0	0.0	28.2	0.0	9.5
125	Chlorobenzene	6.0	0.1	0.0	0.0	0.4	0.5	0.0	5.5
134	Vinyl acetate	479.2	28.0	3.2	3.6	16.9	51.7	0.0	427.5
181	Dichlorobenzene	3.0	3.0	0.0	0.0	0.0	3.0	0.0	0.0
207	2,6-Di-tert-butyl-4-cresol	4.2	0.0	0.0	0.0	0.0	0.0	0.0	4.2
235	Water-soluble salts of bromic acid	774.6	0.0	0.0	0.0	0.0	0.0	774.6	0.0
296	1,2,4-trimethylbenzene	1.1	1.1	0.0	0.0	0.0	1.1	0.0	0.0
297	1,3,5-trimethylbenzene	42.0	0.3	0.0	0.0	41.7	42.0	0.0	0.0
300	Toluene	91.0	19.6	0.0	0.0	0.8	20.4	60.0	10.6
309	Nickel compounds	62.5	0.0	0.0	0.0	43.8	43.8	0.0	18.7
354	Di-n-butyl phthalate	276.1	0.0	0.0	0.0	0.5	0.5	0.0	275.6
392	N-hexane	569.0	569.0	0.0	0.0	0.1	569.0	0.0	0.0
403	Benzophenone	21.8	0.0	0.0	0.0	0.0	0.0	0.0	21.8
407	Poly(oxyethylene)alkyl ether(alkyl C=12-15)	762.3	459.5	55.8	0.0	247.0	762.3	0.0	0.0
410	Poly(oxyethylene)nonylphenyl ether	29.7	29.7	0.0	0.0	0.0	29.7	0.0	0.0
447	Methylenebis(4,1-cyclohexylene)diisocyanate	177.7	0.0	0.0	0.0	0.0	0.0	0.0	177.7
448	Methylenebis(4,1-phenylene)diisocyanate	27.7	27.7	0.0	0.0	0.0	27.7	0.0	0.0
Total		18,105.3	1,194.1	60.4	3.6	351.1	1,609.2	15,545.0	951.2

* The volume of PRTR designated substances that were handled, released, transferred, disposed of, recycled, or consumed, which were used by the PRTR Law Notification Office. For the calculation methods, see the Ministry of the Environment/Ministry of Economy Trade and Industry's PRTR Release Estimation Methods Manual, version 4.1 (March 2011)

* "Volume treated" refers to those PRTR designated substances that were modified by way of incineration, neutralization, breaking down, reactive process, etc.

* "Volume of consumption" refers to the volume of PRTR designated substances that were modified by way of reaction into other substances, incorporated into products or moved off-site with products.

Environmental Load Material Flow



* The scope of disclosure coverage was [Group B](#).

Input items

Indicator	Unit	Calculation method
Volume of energy used	GJ	Power, gas (city gas, LPG, natural gas), oil (gasoline, light oil, kerosene), heat (hot water, cold water) Daytime power values from the Ordinance of Enforcement of the Energy Conservation Law (effective from April 1, 2008) were used for power unit calorific values. For the unit calorific value of gas, oil, and heat, values as presented in the Greenhouse Gas Emission Calculation and Reporting Manual, Ver. 3.4 (May 2013) (Ministry of the Environment, Ministry of Economy, Trade and Industry) are used.
Water	1,000m ³	Tap water, water for industrial use
Substance input	Tons	The volume of raw materials used to manufacture products
Overall sales volume	10,000 tons	Data from furniture and stationery products (excluding KOKUYO Camlin)
Packaging materials	Tons	The volume of packaging material used to package products

Output items

Indicator	Unit	Calculation method
Volume of CO ₂ released by energy usage	Tons of CO ₂	Volume of CO ₂ emissions generated through the use of electricity, gas, oil, and heat * related: Global warming preventive measures Coefficients based on the Law on Promotion of Measures to Cope with Global Warming (actual emission coefficients for each power company for fiscal 2012 and 2013) were used to calculate CO ₂ emission coefficients from power generation in Japan. Coefficients for each country covered on the GHG Protocol website, released by the World Business Council for Sustainable Development and the World Resources Institute, were used to calculate CO ₂ emission coefficients from overseas power generation. For CO ₂ emission coefficients for gas, oil, and heat, values as presented in the Greenhouse Gas Emission Calculation and Reporting Manual, Ver. 3.4 (May 2013) (Ministry of the Environment, Ministry of Economy, Trade and Industry) are used. The ton/kilo method and the fuel consumption method were used in tandem to calculate the volume of CO ₂ emissions arising from distribution (consigned transportation).
Other greenhouse gases	Ton of CO ₂ e	Emissions of greenhouse gases (CO ₂ , CH ₄ , N ₂ O) related to production activities, but excluding such emissions from energy sources, have been converted to a CO ₂ basis. Values taken from the Ministry of the Environment and the Ministry of Economy, Trade and Industry's Calculating Greenhouse Gas Emissions and Report Manual, ver. 3.4 (May 2013) were used for emission coefficients.
SO _x , NO _x	Tons	Volume of emissions from smoke- and soot-producing facilities at manufacturing plants
Waste	Tons	The volume of discharged waste (emissions) is the total amount of waste and valuable substances discharged from business establishments. Recycle volume is the total, out of the volume of discharged waste (emissions), of that which has been recycled through material or thermal recycling, to which is added the volume of valuable substances. The final waste volume is the total, out of the volume of discharged waste (emissions), of waste disposed of either by simple incineration or direct landfill. * related: Resource saving and recycling

Indicator	Unit	Calculation method
		If industrial waste has been ascertained in terms of cubic measurements, conversion factors for converting cubic measurements of industrial waste into weights as stated in a notice released by the Ministry of the Environment (December 27, 2006; Env. Ind. Waste Issue No. 061227006) are used.
Wastewater	1,000m ³	Wastewater discharged to areas of water for public use and into the sewerage system
COD, BOD	kg	Of plants in Japan, the volume of effluent discharged to areas of water for public use by plants with a legal obligation to measure water quality.

Other items

Indicator	Unit	Calculation method
Overall transportation volume	Ton/km	For outsourced transportation, data on domestic transportation data in Japan corresponding to the transportation of furniture products, transportation of store fixtures, transportation of stationery products, transportation undertaken for catalog sales by Kaunet, and transportation of Actus products, and the total volume of products transported between overseas sites and the volume of products transported within Malaysia.
Cyclical water use at plants	m ³	The volume of water used in a cyclical way (i.e. recycled) on business premises
Volume of cyclical resource use on premises	Tons	The volume of recycled resources, such as packaging materials, on the business premises of KOKUYO Logitem Co., Ltd., and KOKUYO Supply Logistics Co., Ltd.
Collected used products	Tons	The volume of used products collected from customers by KOKUYO Logitem Co., Ltd.
Re-use of used products	Tons	The volume of re-used products from the used products collected from customers by KOKUYO Logitem Co., Ltd.



Sites with ISO 14001 Certification

No.	Company name	Site name
1	KOKUYO	Head office (including WS)
2		Shinagawa office
3		Kasumigaseki office
4		Osaki office
5		Nagoya office
6		Umeda office
7		Mie plant
8		Shibayama plant
9		Fukutani office
10	KOKUYO K Heart	Head office
11	KOKUYO MVP	Tottori Factory
12		Aoya Factory
13	KOKUYO Product Shiga	Head office
14	KOKUYO Logitem	Head office
15		Sendai distribution center
16		Gunma distribution center
17		Central Japan delivery and distribution center
18		Shin Chiba distribution center
19		Shiga distribution center
20		Mie distribution center
21		Ina distribution center
22		Chubu delivery and distribution center
23		Fujiwara distribution center
24		Okayama distribution center
25		Saga office
26		Kansai delivery and distribution center
27		KOKUYO Supply Logistics
28	Ibaraki distribution center	
29	Central Japan Integrated distribution center	
30	Chubu Integrated distribution center	
31	Shiga national distribution center	
32	Osaka Nanko distribution center	

No.	Company name	Site name
39	KOKUYO Engineering & Technology	Head office
40		Tohoku branch
41		Chubu branch
42		Kansai branch
43		Hiroshima office
44		Kyushu branch
45	KOKUYO Marketing	Head office
46		Tachikawa office
47		Chiba office
48		Saitama office
49		Yokohama office
50		Nagano office
51		Nagoya office
52		Shizuoka office
53		Osaka office
54		Umeda office
55		Kyoto office
56		Kobe office
57		Wakayama office
58		Hiroshima office
59	Yamaguchi office	
60	Matsue office	
61	Fukuoka office	
62	Nagasaki office	
63	Kagoshima office	
64	Miyazaki office	
65	Okinawa office	
66	KTL	Head office
67	KOKUYO (Malasia)	Head office
68	KOKUYO IK Thailand	Head office
69	KOKUYO Camlin	Samba

No.	Company name	Site name
33		Kyushu Integrated distribution center
34		Kinki Integrated distribution center
35	KAUNET	Head office
36		Sapporo distribution center
37		Nagoya distribution center
38		Fukuoka distribution center

Environmental accounting

Environmental accounting

(Unit: Millions of yen)

Item	Environment-related investments		Costs		Effects		Total	
	2014	2015	2014	2015	2014	2015	2014	2015
Pollution prevention	201	158	512	876	0	0	713	1,034
Global warming prevention	1,438	2,768	604	505	▲3,010	▲3,162	▲969	111
Saving resources and recycling	1,243	1,640	30,058	27,891	▲17,865	▲16,663	13,437	12,867
Procurement and provision of green products	0	0	11,579	11,575	0	0	11,579	11,575
Research studies into environmental technology	0	0	645	49	0	0	645	49
Environmental communication	0	0	3,309	3,187	0	0	3,309	3,187
Setting up management structures	0	0	2,776	2,896	0	0	2,776	2,896
Environmental damage response	0	0	8	287	0	0	8	287
Total	2,882	4,566	49,491	47,265	▲20,874	▲19,825	31,499	32,006

* Disclosed for reporting [scope B](#).

Breakdown of economic effects

Item	Content of counter measures	2014	2015
Global warming prevention	The effect of introducing energy-saving facilities	▲858	▲1,518
	The effect of improving operations	▲2,152	▲1,644
Saving resources and recycling	Income from sorting and recycling of waste materials	▲15,267	▲14,488
	Waste reduction	▲2,598	▲275
Procurement and provision of green products	Cost reductions achieved through the use of recycled items	0	▲1,900
Total		▲20,874	▲19,825

Reports by Business Site

Reports on Business Sites in Japan

KOKUYO measures the impact on the natural environment of the activities of its principal business sites in Japan and overseas and uses this information in considering appropriate policies, setting objectives, and carrying out other activities. KOKUYO discloses such information on five manufacturing plants in Japan. In fiscal 2014, the total volume of CO₂ emissions at these five domestic plants exceeded the level of the previous year due to increases in production and shifts to internal production.

* In tables featured in this report, the figure "0" indicates that numbers have been rounded off to zero. Also, "-" indicates that there are no figures corresponding to the given item.

* Wastewater emissions are disclosed herein only for those business sites where measurements of such emissions are required by law. Measurements at the KOKUYO Product Shiga plant are not required by law. However, because abnormal pH values were detected there in fiscal 2007, the emissions have been disclosed separately.

▷ KOKUYO(Mie Plant)

▷ KOKUYO
(Shibayama Plant)

▷ KOKUYO Product
▷ Shiga

▷ KOKUYO MVP
(Tottori Factory)

▷ KOKUYO MVP
(Aoya Factory)

Reports on Business Sites Overseas

Information on nine plants located in Thailand, Malaysia, Vietnam, Shanghai in China and India (5 plants) are hereby disclosed. CO₂ emissions increased due to higher production at plants in Malaysia, Vietnam and India for fiscal 2014.

▷ KOKUYO-IK (Thailand)

▷ KOKUYO (Malaysia)

▷ KOKUYO Vietnam

▷ KOKUYO COMMERC
(SHANGHAI) CO.,LTD
Shanghai Factory

▷ KOKUYO Camlin
(Tarapur, India)

▷ KOKUYO Camlin
(Taloja, India)

▷ KOKUYO Camlin
(Vasai, India)

▷ KOKUYO Camlin
(Samba, India)

▷ KOKUYO Camlin
(Jammu, India)

KOKUYO (Mie Plant)

Location	2012 Nishitawara, Nabari-shi, Mie
Principal products	Steel desks, low partitions, etc.
Commencement of operations	May 1993
Site area	145,977 m ²



Inputs		Fiscal 2014	Fiscal 2015
Energy	Volume of energy inputs	88,054GJ	93,619GJ
	Fuel	32,178GJ	35,714GJ
	Electricity	55,876GJ	57,905GJ
Water resources	City/well water	39,271m ³	36,323m ³
Outputs		Fiscal 2014	Fiscal 2015
Atmospheric emissions	CO ₂	4,616t	4,699t
	SO _x	0.02t	0.02t
	NO _x	0.53t	0.24t
Waste emissions	Total waste volume	1,107t	1,236t
	Reuse/recovery	1,106t	1,235t
	Final disposal	1t	1t
Emissions into bodies of water	Volume of effluent	32,420m ³	32,985m ³
	Emissions into public water areas	32,420m ³	32,985m ³
	Emissions into sewage systems	-	-
Restricted items emitted into bodies of water	Hydrogen ion concentration	PH7.1~7.6	PH7.2~7.7
	COD	8.9mg/L	12.8mg/L
	BOD	1.9mg/L	2.1mg/L
	SS	1.5mg/L	2.9mg/L

KOKUYO (Shibayama Plant)

Location	3155-4 Ohdai, Shibayama-machi, Sanbu-gun, Chiba
Principal products	Room dividers, low partitions, cabinets, etc.
Commencement of operations	June 1994
Site area	73,734 m ²



Inputs		Fiscal 2014	Fiscal 2015
Energy	Volume of energy inputs	119,393GJ	130,228GJ
	Fuel	56,442GJ	64,255GJ
	Electricity	62,951GJ	65,974GJ
Water resources	City/well water	17,573m ³	18,326m ³
Outputs		Fiscal 2014	Fiscal 2015
Atmospheric emissions	CO ₂	6,201t	6,644t
	SO _x	-	-
	NO _x	-	-
Waste emissions	Total waste volume	2,486t	2,779t
	Reuse/recovery	2,486t	2,779t
	Final disposal	0t	0t
Emissions into bodies of water	Volume of effluent	11,614m ³	12,370m ³
	Emissions into public water areas	4,171m ³	4,838m ³
	Emissions into sewage systems	7,443m ³	7,532m ³
Restricted items emitted into bodies of water	Hydrogen ion concentration	pH7.2	pH7.0
	COD	4.0mg/L	6.0mg/L
	BOD	2.0mg/L	1.0mg/L
	SS	5.0mg/L	0.5mg/L

KOKUYO Product Shiga

Location	312 Kamigano, Aisho-cho, Echi-gun, Shiga
Principal products	Notebooks, plain paper copy paper, carbon duplication books, loose-leaf supplies, etc.
Commencement of operations	October 1980
Site area	114,294 m ²



Inputs		Fiscal 2014	Fiscal 2015
Energy	Volume of energy inputs	70,710GJ	62,034GJ
	Fuel	1,197GJ	1,092GJ
	Electricity	69,513GJ	60,943GJ
Water resources	City/well water	6,491m ³	5,833m ³
Outputs		Fiscal 2014	Fiscal 2015
Atmospheric emissions	CO ₂	3,698t	3,297t
	SO _x	-	-
	NO _x	-	-
Waste emissions	Total waste volume	2,665t	2,472t
	Reuse/recovery	2,665t	2,472t
	Final disposal	0t	0t
Emissions into bodies of water	Volume of effluent	6,421m ³	5,781m ³
	Emissions into public water areas	-	-
	Emissions into sewage systems	6,421m ³	5,781m ³
Restricted items emitted into bodies of water	Hydrogen ion concentration	pH7.1~8.3	pH6.7~9.3
	COD	3.8mg/L	2.8mg/L
	BOD	1.5mg/L	1.5mg/L
	SS	5.2mg/L	2.4mg/L

KOKUYO MVP (Tottori Factory)

Location	2-201 Minami, Koyama-cho, Tottori-shi, Tottori
Principal products	Custom-made stationery
Commencement of operations	September 2007 (Predecessor company, KOKUYO Office Supplies Industrial, began operations in December 1962)
Site area	38,389 m ²



Inputs		Fiscal 2014	Fiscal 2015
Energy	Volume of energy inputs	17,742GJ	16,598GJ
	Fuel	1,263GJ	1,057GJ
	Electricity	16,479GJ	15,541GJ
Water resources	City/well water	9,040m ³	8,974m ³
Outputs		Fiscal 2014	Fiscal 2015
Atmospheric emissions	CO ₂	1,284t	1,179t
	SO _x	0.001t	-
	NO _x	0.048t	-
Waste emissions	Total waste volume	930t	939t
	Reuse/recovery	923t	932t
	Final disposal	7t	7t
Emissions into bodies of water	Volume of effluent	9,040m ³	8,974m ³
	Emissions into public water areas	-	-
	Emissions into sewage systems	9,040m ³	8,974m ³
Restricted items emitted into bodies of water	Hydrogen ion concentration	Not subject to regulation	Not subject to regulation
	COD	Not subject to regulation	Not subject to regulation
	BOD	Not subject to regulation	Not subject to regulation
	SS	Not subject to regulation	Not subject to regulation

KOKUYO MVP (Aoya Factory)

Location	1114 Aoya, Aoya-cho, Tottori-shi, Tottori
Principal products	Custom made stationery
Commencement of operations	September 2007 (Predecessor company, KOKUYO Office Supplies Industrial, Aoya Factory, began operations in April 2000)
Site area	34,607 m ²



Inputs		Fiscal 2014	Fiscal 2015
Energy	Volume of energy inputs	13,573GJ	13,691GJ
	Fuel	848GJ	690GJ
	Electricity	12,725GJ	13,001GJ
Water resources	City/well water	4,281m ³	4,026m ³
Outputs		Fiscal 2014	Fiscal 2015
Atmospheric emissions	CO ₂	975t	966t
	SO _x	-	-
	NO _x	-	-
Waste emissions	Total waste volume	399t	406t
	Reuse/recovery	399t	406t
	Final disposal	0 t	0 t
Emissions into bodies of water	Volume of effluent	4,281m ³	4,026m ³
	Emissions into public water areas	4,281m ³	4,026m ³
	Emissions into sewage systems	-	-
Restricted items emitted into bodies of water	Hydrogen ion concentration	pH6.2	pH6.9
	COD	Not subject to regulation	Not subject to regulation
	BOD	2.2mg/L	1.2mg/L
	SS	2.8mg/L	6.8mg/L

KOKUYO-IK (Thailand)

Location	529 Moo 4 Bangpoo Industrial Estate Soi 8C, T. Praksa, A. Muang, Samutprakam 10280 Thailand
Principal products	Clear books (transparent document holders), PP (plain paper) files, tape adhesives, etc.
Commencement of operations	December 1996
Site area	12,679 m ²



Inputs		Fiscal 2014	Fiscal 2015
Energy	Volume of energy inputs	38,762GJ	33,576GJ
	Fuel	647GJ	645GJ
	Electricity	38,115GJ	32,931GJ
Water resources	City/well water	19,435m ³	18,073m ³
Outputs		Fiscal 2014	Fiscal 2015
Atmospheric emissions	CO ₂	2,029t	1,713t
	SO _x	-	-
	NO _x	-	-
Waste emissions	Total waste volume	183t	170t
	Reuse/recovery	146t	136t
	Final disposal	37t	34t
Emissions into bodies of water	Volume of effluent	15,548m ³	14,458m ³
	Emissions into public water areas	-	-
	Emissions into sewage systems	15,548m ³	14,458m ³
Restricted items emitted into bodies of water	Hydrogen ion concentration	pH7.1	pH7.9
	COD	110mg/L	162.5mg/L
	BOD	18.5mg/L	26.9mg/L
	SS	24.0mg/L	45.5mg/L

KOKUYO (Malaysia)

Location	Lots 79 & 83, Persiaran Bunga Tanjung 1, Senawang Industrial Park 70400 Seremban, Negeri Sembilan Darul Khusus, Malaysia
Principal products	Steel desks, low partitions, cabinets, etc.
Commencement of operations	October 1999
Site area	58,000 m ²



Inputs		Fiscal 2014	Fiscal 2015
Energy	Volume of energy inputs	28,926GJ	22,450GJ
	Fuel	12,749GJ	6,749GJ
	Electricity	16,177GJ	15,700GJ
Water resources	City/well water	5,004m ³	5,696m ³
Outputs		Fiscal 2014	Fiscal 2015
Atmospheric emissions	CO ₂	1,769t	1,426t
	SO _x	-	-
	NO _x	-	-
Waste emissions	Total waste volume	397t	330t
	Reuse/recovery	328t	330t
	Final disposal	69t	69t
Emissions into bodies of water	Volume of effluent	4,113m ³	2,502m ³
	Emissions into public water areas	1,363m ³	1,234m ³
	Emissions into sewage systems	2,750m ³	1,268m ³
Restricted items emitted into bodies of water	Hydrogen ion concentration	pH7.5	pH7.5
	COD	28.7mg/L	28.7mg/L
	BOD	6.2mg/L	6.2mg/L
	SS	6.1mg/L	6.1mg/L

KOKUYO Vietnam

Location	Land Plot B2-B7, Nomura-Haiphong IZ, An Duong Dist., Haiphong City, Vietnam
Principal products	Notebooks, flat files, files for thick covers, tack labels, etc.
Commencement of operations	November 2006
Site area	51,544 m ²



Inputs		Fiscal 2014	Fiscal 2015
Energy	Volume of energy inputs	32,061GJ	35,698GJ
	Fuel	623GJ	607GJ
	Electricity	31,438GJ	35,092GJ
Water resources	City/well water	10,177m ³	11,931m ³
Outputs		Fiscal 2014	Fiscal 2015
Atmospheric emissions	CO ₂	1,361t	1,328t
	SO _x	-	-
	NO _x	-	-
Waste emissions	Total waste volume	1,017t	1,140t
	Reuse/recovery	1,017t	883t
	Final disposal	0t	257t
Emissions into bodies of water	Volume of effluent	8,141m ³	9,545m ³
	Emissions into public water areas	-	-
	Emissions into sewage systems	8,141m ³	9,545m ³
Restricted items emitted into bodies of water	Hydrogen ion concentration	pH7.14	pH7.26
	COD	81.3mg/L	82.7mg/L
	BOD	53.3mg/L	49.9mg/L
	SS	Not subject to measurement	Not subject to measurement

KOKUYO COMMERC (SHANGHAI) CO.,LTD Shanghai Factory

Location	No.128 RenJie RD, FengXian District, Shanghai,P.R,China 201402
Principal products	Adhesive-bound notebooks, spiral notebooks, twin-ring notebooks, report pads, etc.
Commencement of operations	August 2012
Site area	27,457.7 m ²

Inputs		Fiscal 2014	Fiscal 2015
Energy	Volume of energy inputs	12,921GJ	10,933GJ
	Fuel	-	-
	Electricity	12,921GJ	10,933GJ
Water resources	City/well water	5,302m ³	2,212m ³
Outputs		Fiscal 2014	Fiscal 2015
Atmospheric emissions	CO ₂	984t	813t
	SO _x	-	-
	NO _x	-	-
Waste emissions	Total waste volume	704t	690t
	Reuse/recovery	641t	572t
	Final disposal	63t	118t
Emissions into bodies of water	Volume of effluent	4,772m ³	1,991m ³
	Emissions into public water areas	-	-
	Emissions into sewage systems	4,772m ³	1,991m ³
Restricted items emitted into bodies of water	Hydrogen ion concentration	Not subject to measurement	Not subject to measurement
	COD	Not subject to measurement	Not subject to measurement
	BOD	Not subject to measurement	Not subject to measurement
	SS	Not subject to measurement	Not subject to measurement

KOKUYO Camlin (Tarapur, India)

Location	MIDC Tarapur, Tal- Palghar, Dist- Thane, Pin- 401506
Principal products	Art supplies, poster colors, crayons, lead for mechanical pencils, etc.
Commencement of operations	April 1974
Site area	10,045 m ²

Inputs		Fiscal 2014	Fiscal 2015
Energy	Volume of energy inputs	39,086GJ	33,568GJ
	Fuel	1,156GJ	1,197GJ
	Electricity	37,930GJ	32,371GJ
Water resources	City/well water	21,078m ³	42,428m ³
Outputs		Fiscal 2014	Fiscal 2015
Atmospheric emissions	CO ₂	3,384t	3,033t
	SO _x	-	-
	NO _x	-	-
Waste emissions	Total waste volume	55t	88t
	Reuse/recovery	55t	88t
	Final disposal	0t	0t
Emissions into bodies of water	Volume of effluent	21,078m ³	12,828m ³
	Emissions into public water areas	-	754m ³
	Emissions into sewage systems	21,078m ³	12,074m ³
Restricted items emitted into bodies of water	Hydrogen ion concentration	pH7.4	pH7.5
	COD	75.0mg/L	74.0mg/L
	BOD	15.0mg/L	14.0mg/L
	SS	20.0mg/L	23.0mg/L

KOKUYO Camlin (Taloja, India)

Location	M.I.D.C Taloja Navi Mumbai - 410 208
Principal products	Ink, stick glue, etc.
Commencement of operations	April 1996
Site area	3,801 m ²

Inputs		Fiscal 2014	Fiscal 2015
Energy	Volume of energy inputs	2,719GJ	2,752GJ
	Fuel	70GJ	188GJ
	Electricity	2,649GJ	2,565GJ
Water resources	City/well water	9,798m ³	8,281m ³
Outputs		Fiscal 2014	Fiscal 2015
Atmospheric emissions	CO ₂	239t	246t
	SO _x	-	-
	NO _x	-	-
Waste emissions	Total waste volume	0.5t	0.5t
	Reuse/recovery	0t	0t
	Final disposal	0.5t	0.5t
Emissions into bodies of water	Volume of effluent	9,798m ³	8,281m ³
	Emissions into public water areas	-	-
	Emissions into sewage systems	9,798m ³	8,281m ³
Restricted items emitted into bodies of water	Hydrogen ion concentration	pH6.5	pH5.8
	COD	32.0mg/L	28.0mg/L
	BOD	12.0mg/L	10.0mg/L
	SS	40.0mg/L	46.0mg/L

KOKUYO Camlin (Vasai, India)

Location	Rajprabha Udyog Nagar Building No. 4, Golani Naka, Walive, Vasai (East) Dist.-Thane - 401 30
Principal products	Markers, ballpoint pens, gel pens, correction pens, mechanical pencils, etc.
Commencement of operations	2009
Site area	3,528 m ²

Inputs		Fiscal 2014	Fiscal 2015
Energy	Volume of energy inputs	8,947GJ	9,358GJ
	Fuel	279GJ	285GJ
	Electricity	8,668GJ	9,073GJ
Water resources	City/well water	548m ³	544m ³
Outputs		Fiscal 2014	Fiscal 2015
Atmospheric emissions	CO ₂	787t	847t
	SO _x	-	-
	NO _x	-	-
Waste emissions	Total waste volume	24.0t	36.5t
	Reuse/recovery	5.0t	10.2t
	Final disposal	19.0t	26.3t
Emissions into bodies of water	Volume of effluent	548m ³	544m ³
	Emissions into public water areas	-	-
	Emissions into sewage systems	548m ³	544m ³
Restricted items emitted into bodies of water	Hydrogen ion concentration	Not subject to regulation	Not subject to regulation
	COD	Not subject to regulation	Not subject to regulation
	BOD	Not subject to regulation	Not subject to regulation
	SS	Not subject to regulation	Not subject to regulation

KOKUYO Camlin (Samba, India)

Location	Lane No. 9, Sidco, Phase - 1 I.G.C., Samba- 184 121
Principal products	Art supplies
Commencement of operations	January 2008
Site area	10,040 m ²

Inputs		Fiscal 2014	Fiscal 2015
Energy	Volume of energy inputs	8,990GJ	8,378GJ
	Fuel	1,249GJ	1,170GJ
	Electricity	7,741GJ	7,208GJ
Water resources	City/well water	4,500m ³	9,466m ³
Outputs		Fiscal 2014	Fiscal 2015
Atmospheric emissions	CO ₂	770t	735t
	SO _x	-	-
	NO _x	-	-
Waste emissions	Total waste volume	48.3t	39.1t
	Reuse/recovery	47.9t	38.7t
	Final disposal	0.4t	4t
Emissions into bodies of water	Volume of effluent	4,500m ³	9,466m ³
	Emissions into public water areas	-	-
	Emissions into sewage systems	4,500m ³	9,466m ³
Restricted items emitted into bodies of water	Hydrogen ion concentration	pH7.5	pH7.3
	COD	103.0mg/L	114.0mg/L
	BOD	28.0mg/L	22.5mg/L
	SS	78.0mg/L	52.0mg/L

KOKUYO Camlin (Jammu, India)

Location	101, Gangyal Industrial Area Phase II Jammu - 180 004
Principal products	Art supplies
Commencement of operations	April 2012
Site area	-

Inputs		Fiscal 2014	Fiscal 2015
Energy	Volume of energy inputs	6,001GJ	5,494GJ
	Fuel	641GJ	551GJ
	Electricity	5,360GJ	4,944GJ
Water resources	City/well water	5,400m ³	9,600m ³
Outputs		Fiscal 2014	Fiscal 2015
Atmospheric emissions	CO ₂	517t	489t
	SO _x	-	-
	NO _x	-	-
Waste emissions	Total waste volume	-	1.6t
	Reuse/recovery	-	0t
	Final disposal	-	1.6t
Emissions into bodies of water	Volume of effluent	5,400m ³	9,600m ³
	Emissions into public water areas	5,400m ³	9,600m ³
	Emissions into sewage systems	-	-
Restricted items emitted into bodies of water	Hydrogen ion concentration	Not subject to regulation	Not subject to regulation
	COD	Not subject to regulation	Not subject to regulation
	BOD	Not subject to regulation	Not subject to regulation
	SS	Not subject to regulation	Not subject to regulation

KOKUYO

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