KOKUYO

KOKUYO Report 2018 CSR Data



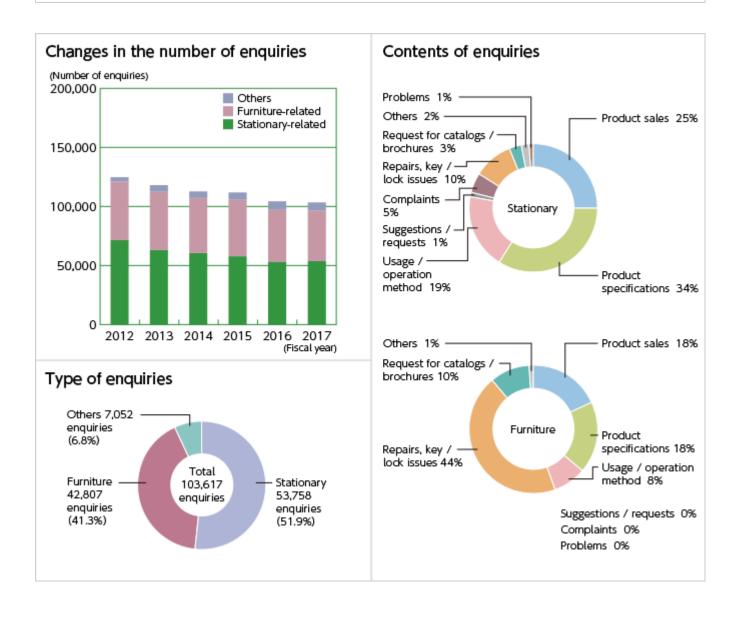
Society

■ Reporting period

January 1 to December 31 of the applicable year (The results are current as of December 31



Reflecting the views of customers



Non-consolidated/consolidated

Total number of employees by employment contract and region as of the end of 2017

| | Total | Within Japan | Overseas |
|----------------------------|-------|--------------|----------|
| Regular employees | 6,027 | 3,982 | 2,045 |
| Senior employees | 246 | 238 | 8 |
| Contracted employees | 629 | 514 | 115 |
| Part-time/casual employees | 2,319 | 606 | 1,713 |
| Temporary employees | 550 | 550 | 0 |
| Total | 9,771 | 5,890 | 3,881 |

Employee composition

| | | Subject | 2014 | 2015 | 2016 | 2017 |
|----------------------------------------------------|-------------------------------------------------------------------------|-------------------------|------------------|------------------|------------------|------------------|
| | Inside | Non- consolidated | 5 | 5 | 5 | 5 |
| Number of Executives and Directors | Outside | Non- consolidated | 4 | 3 | 3 | 3 |
| | Total | Non- consolidated | 9 | 8 | 8 | 8 |
| | Inside | Non- consolidated | 2 | 2 | 2 | 0 |
| Number of Auditors | Outside | Non- consolidated | 2 | 2 | 2 | 3 |
| 1 | Total | Non- consolidated | 4 | 4 | 4 | 3 |
| | Male | Consolidated | 5,071 | 4,877 | 4,811 | 4,864 |
| | Female | Consolidated | 1,602 | 1,791 | 1,785 | 1,835 |
| | Total | Consolidated | 6,673 | 6,668 | 6,596 | 6,699 |
| Number of employees | Male | Non- consolidated | 222 | 1,501 | 1,509 | 1,514 |
| * Including regular employees and certain | Female | Non- consolidated | 126 | 486 | 490 | 500 |
| contracted employees | Total | Non- consolidated | 348 | 1,987 | 1,999 | 2,014 |
| | Foreign employees in | Major Companies | - | 17 | 16 | 13 |
| | domestic establishments | Non- consolidated | 4 | 16 | 15 | 12 |
| empl * Figures withi | f non-regular loyees*1 n brackets are the on-regular employees | Consolidated | 2,153 (24.39) | 2,232 (25.07) | 2,244 (25.38) | 3,399 (33.66) |
| | rate of physically ed persons | Special subsidiaries | 2.14 | 2.12 | 2.11 | 2.23*2 |

^{*1} The reason why non-regular employees are increasing rapidly from 2017 to 2018 is that Kokuyo Camlin hired staff to solve the temporary productivity decline due to factory relocation as well as respond to increased production due to increased sales and in-house production rate.

^{*2} Employment rate as of the end of April 2018 (forecast)

Major Companies

Total number of employees by contract type and gender as of the end of 2017

| | Total | Male | Female |
|----------------------------|-------|-------|--------|
| Regular employees | 3,297 | 2,565 | 732 |
| Senior employees | 205 | 201 | 4 |
| Contracted employees | 242 | 145 | 97 |
| Part-time/casual employees | 283 | 124 | 159 |
| Temporary employees | 483 | 167 | 316 |
| Total | 4,510 | 3,202 | 1,308 |

^{*}Figures for part-time and casual employees are as of January 1, 2018

Employee composition

Subjects: KOKUYO Co., Ltd., KOKUYO Marketing Co., Ltd., Kaunet Co., Ltd., KOKUYO Engineering & Technology Co., Ltd., KOKUYO Logistem Co., Ltd., KOKUYO Supply Logistics Co., Ltd.

| | | | 2014 | 2015 | 2016 | 2017 |
|----------------------------------|----------------------------------------------|-------------------|-------|-------|-------|-------|
| | | Under 30 | 281 | 280 | 288 | 318 |
| Number of employees by age group | | 30-39 | 765 | 676 | 654 | 619 |
| | | 40-49 | 1,563 | 1,550 | 1,524 | 1,443 |
| Number of employ | yees by age group | 50-59 | 704 | 800 | 826 | 917 |
| | | | 131 | 148 | 182 | 205 |
| | | Total | 3,444 | 3,454 | 3,474 | 3,502 |
| | | Male | 44.86 | 45.46 | 45.87 | 46.15 |
| Average a | ige (years) | Female | 37.75 | 38.35 | 38.82 | 39.24 |
| | | Average | 43.42 | 44.02 | 44.42 | 44.70 |
| | | Male | 19.15 | 19.74 | 20.12 | 20.31 |
| | Average length of continuous service (years) | | 13.41 | 13.96 | 14.32 | 14.52 |
| | | Average | 17.99 | 18.57 | 18.93 | 19.09 |
| | Executives and higher | Male | 29 | 20 | 23 | 21 |
| | | Female | 1 | 2 | 1 | 0 |
| | | Foreign nationals | 0 | 0 | 0 | 0 |
| | Department heads | Male | 122 | 122 | 122 | 82 |
| | | Female | 1 | 3 | 3 | 3 |
| Post appointments | | Foreign nationals | 0 | 0 | 0 | 0 |
| | | Male | 715 | 733 | 723 | 742 |
| | Section chiefs | Female | 29 | 33 | 38 | 43 |
| | | Foreign nationals | 1 | 2 | 1 | 2 |
| | Cub agation shirts | Male | 1,072 | 1,083 | 1,100 | 1,024 |
| | Sub-section chiefs | Female | 176 | 182 | 206 | 229 |

| | | | 2014 | 2015 | 2016 | 2017 |
|-------------------|------------------------------------------------------------------------------------|----------------------------|------|-------|-------|-------|
| | | Foreign nationals | 4 | 4 | 6 | 5 |
| | Executives and higher | | - | 9.09 | 4.17 | 0 |
| | Department heads | | - | 2.40 | 2.40 | 3.53 |
| | Section chiefs | | - | 4.31 | 4.99 | 5.48 |
| | Sub-section chiefs | | - | 14.39 | 15.77 | 18.28 |
| | Post appointments *Includes up to sub- section chiefs | Percentage of women (%) | - | 10.10 | 11.19 | 12.83 |
| Post appointments | Percentage of workforce in management positions (department heads, section chiefs) | | - | 4.04 | 4.63 | 5.29 |
| | Executives and higher | | - | 0 | 0 | 0 |
| | Department heads | | - | 0 | 0 | 0 |
| | Section chiefs | Percentage of non- | - | 0.26 | 0.13 | 0.25 |
| | Sub-section chiefs | Japanese (%) | - | 0.32 | 0.46 | 0.40 |
| | Post appointments *Includes up to sub- section chiefs | | - | 0.28 | 0.32 | 0.33 |

Recruitment and employment

| | | 2014 | 2015 | 2016 | 2017 |
|------------------------------------------------|--------|------|------|------|------|
| | Male | 32 | 35 | 40 | 42 |
| Graduate recruitment (persons) | Female | 22 | 26 | 18 | 30 |
| | Total | 54 | 61 | 58 | 72 |
| | Male | 33 | 13 | 24 | 28 |
| Mid-career recruitment (persons) | Female | 8 | 5 | 13 | 12 |
| | Total | 41 | 18 | 37 | 40 |
| | Male | 1.23 | 1.38 | 1.15 | 1.43 |
| Turnover rate * Excluding mandatory retirement | Female | 3.17 | 3.87 | 2.16 | 3.11 |
| | Total | 1.61 | 1.89 | 1.36 | 1.79 |

New employment results for 2017

| | Total | Male | Female |
|----------------|-------|------|--------|
| 20s or younger | 83 | 49 | 34 |
| 30s | 22 | 17 | 5 |
| 40s | 7 | 4 | 3 |
| 50s | 0 | 0 | 0 |
| 60s or older | 0 | 0 | 0 |
| Total | 112 | 70 | 42 |

^{*}Regular employees who entered the company between January and December 2017

Work-life balance

| | | 2014 | 2015 | 2016 | 2017 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------|---------|---------|---------|
| Total working time (years) *Full-time employees only(including short-day and short-time workers, excluding overseas workers and workers leave of absence) | | 2,126.1 | 2,135.3 | 2,134.8 | 2,129.8 |
| Non-prescribed work time (yea | rs) | 298.5 | 307.6 | 311.8 | 304.5 |
| Long-time worker rate (over 360 hours of overtime) | total annual | 30.0 | 30.6 | 31.3 | 23.0 |
| 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) | | 49.96 | 46.28 | 48.20 | 48.00 |
| | Male | 1 | 0 | 4 | 4 |
| Number of employees taking child-care leave | Female | 64 | 80 | 83 | 68 |
| | Total | 65 | 80 | 87 | 72 |
| | Male | 0 | 1 | 1 | 0 |
| Number of employees taking nursing-care leave | Female | 0 | 0 | 1 | 1 |
| | Total | 0 | 1 | 2 | 1 |
| Yearly education and training costs per en | nployee (yen) | 52,305 | 35,570 | 41,914 | 38,297 |

Total number of employees who took childcare leave

| | Total | Male | Female |
|----------------|---------|--------|---------|
| 20s or younger | 4 (9) | 3 (8) | 1 (1) |
| 30s | 18 (51) | 1 (33) | 17 (18) |
| 40s | 4 (24) | 0 (2) | 4 (4) |
| 50s | 0 (2) | 0 (2) | 0 (0) |
| 60s or older | 0 (0) | 0 (0) | 0 (0) |
| Total | 26 | 4 | 22 |

 $^{^{\}star}\,$ ($\,$) Of these, the total number of employees with the right to take childcare leave

Number of employees returning to work after childcare leave (return to work rate)

| | Total | Male | Female |
|----------------|----------|------|--------|
| 20s or younger | 6 (100%) | 3 | 3 |
| 30s | 28 (97%) | 1 | 27 |
| 40s | 8 (89%) | 0 | 8 |
| 50s | 0 | 0 | 0 |
| 60s or older | 0 | 0 | 0 |
| Total | 42 (95%) | 4 | 38 |

^{*}Return to work rate: Number of employees who returned to work in 2017/2017 (number of employees who returned to work + number of employees who returned to work after maternity leave)

Number of employees who returned permanently to work (fixation rate)

| | Total | Male | Female |
|----------------|----------|------|--------|
| 20s or younger | 0 | 0 | 0 |
| 30s | 29 (94%) | 3 | 26 |
| 40s | 7 (78%) | 0 | 7 |
| 50s | 0 | 0 | 0 |
| 60s or older | 0 | 0 | 0 |
| Total | 36 (90%) | 3 | 33 |

^{*}Fixation rate: Employees who returned to work in 2016 and remained for at least 12 months (present as of January 1, 2018)/employees who returned to work in 2016

Health management data

| 2016 | 2017 |
|-----------------|---------------------------------------------------|
| | |
| 97.6 | 99.0 |
| 557 | 269 |
| 40.1 | 39.0 |
| 95.0 | 93.2 |
| 29.5 | 38.9 |
| 130 million yen | 133 million yen |
| 94.0 | 94.0 |
| 54 | 54 |
| 4.2 | 4.9 |
| 13 | 15 |
| 4 | 5 |
| 5 | 6 |
| 0 | 3 |
| 49 | 49 |
| | 40.1 95.0 29.5 130 million yen 94.0 54 4.2 13 4 5 |

^{*1} Of the health checkup results, the percentage requiring re-testing, detailed testing or treatment, or currently being treated

^{*2} Score of 50 is the standard value (higher scores indicate better tendencies)

^{*3} Degree of enthusiasm for work (indicator for enthusiasm and attitude on work as displayed by voluntary behavior and positive emotions)

Labor Health and Safety

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

| | | 2014 | 2015 | 2016 | 2017 |
|--------------------------------|-----------------------------------|-------|------|------|------|
| | Consolidated production factories | 7 | 11 | 4 | 2 |
| | Mie Factory | 2 | 6 | 2 | 1 |
| Number of work-related | Shibayama Factory | 0 | 0 | 1 | 0 |
| accident cases | KOKUYO Product Shiga | 1 | 4 | 0 | 0 |
| | KOKUYO MVP | 2 | 1 | 1 | 1 |
| | IWAMI Paper Industry | 2 | 0 | 0 | 0 |
| | Consolidated production factories | 3.12 | 5.04 | 1.87 | 0.87 |
| | Mie Factory | 3.17 | 9.94 | 3.27 | 1.56 |
| Work-related accident | Shibayama Factory | 0 | 0 | 1.78 | 0 |
| frequency rate *1 (%) | KOKUYO Product Shiga | 2.39 | 9.44 | 0 | 0 |
| | KOKUYO MVP | 4.09 | 2.13 | 2.14 | 2.02 |
| | IWAMI Paper Industry | 11.93 | 0 | 0 | 0 |
| | Consolidated production factories | 0.06 | 0.00 | 0.01 | 0.01 |
| | Mie Factory | 0.05 | 0 | 0.02 | 0.02 |
| Work-related accident severity | Shibayama Factory | 0 | 0 | 0.00 | 0 |
| rate *2 *3 (%) | KOKUYO Product Shiga | 0 | 0.01 | 0 | 0 |
| | KOKUYO MVP | 0.09 | 0.01 | 0.00 | 0.00 |
| | IWAMI Paper Industry | 0.38 | 0 | 0 | 0 |
| | Consolidated production factories | 139 | 7 | 20 | 15 |
| | Mie Factory | 30 | 0 | 16 | 14 |
| Number of work-related | Shibayama Factory | 0 | 0 | 3 | 0 |
| accident days of absence | KOKUYO Product Shiga | 0 | 4 | 0 | 0 |
| | KOKUYO MVP | 45 | 3 | 1 | 1 |
| | IWAMI Paper Industry | 64 | 0 | 0 | 0 |

- *From 2016, the work-related accident case calculations are limited to accidents requiring one or more days absence from work (excluding commuting accidents). (Including accidents resulting in time off work in 2014 and 2015)
- *1 Work-related accident frequency rate =

Number of employees involved in accidents requiring absence from work

_____× 1,000,000

Total number of working hours

*2 Work-related accident severity rate =

Number of work-days lost

_____× 1,000

Total number of working hours

- *3 The work-related accident rate is shown with the third decimal place rounded off
 - "0"Indicates that there were no deaths due to work-related accidents.
 - "0.00" ... Shows that when the third decimal place was rounded off, the number was smaller than two decimal places.

Environmental Performance Data

■ Reporting Period

Fiscal 2017 (January 1 to December 31, 2017)

■ 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

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

However, since the targets for 2017 were set for those companies in Group A shown in the table below, only data on this group has been disclosed.

| | | Consolidated Subsidiaries | Other Subsidiaries and Affiliates |
|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | KOKUYO Co., Ltd. | |
| В | A | 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 & Partners Co., Ltd. | KOKUYO K Heart Co., Ltd., KOKUYO-IK (Thailand) Co., Ltd., 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) Sdn. Bhd., KOKUYO Vietnam Trading Co., Ltd., KOKUYO Camlin 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 reporting coverage up to fiscal 2011 was Group A and included KOKUYO Co., Ltd., 12 consolidated subsidiaries, and 3 other subsidiaries and affiliates.

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

B: The scope of reporting coverage from fiscal 2012 is Group B and includes KOKUYO Co., Ltd., 21 consolidated subsidiaries, and 10 other subsidiaries and affiliates for FY2017.

2017 Results

| Environmental | Goals and Re | Evaluation | | | |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---|--|--|
| Policy | Goals Results | | | | |
| Prevention of global | Reduction of CO ₂ emissions Total year-on-year reduction in volume: +4.6% (Excluding impact of production: -1.4%) | +2.5% (Excluding impact of production: -2.4%) | 0 | | |
| warming | Year-on-year reduction in unit energy consumption: Kept to an increase of only 1.3% (compared to 2010: -15.3%) | Per unit of sales: -0.2% (compared to 2010: -6.5%) | 0 | | |
| Resource Conservation and Recycling | Improve recycling rate in relation to total waste volume Business offices: 96.9% and over Construction sites: 81.6% and over | Business offices: 96.8%Construction sites: 82.7% | • | | |
| Procurement, development, and provision of eco- friendly products | Maintain eco x zero | Maintained | 0 | | |
| Information disclosure and communication | Publication of CSR report 2017 | Publication of CSR report 2017 | 0 | | |
| Environmental management | ISO 14001: Regular inspection in 2015 | Regular inspection results Good points: 5 cases Matters pointed out for improvement: None Opportunities for improvement: 16cases | 0 | | |

^{*} As goals have been set based on <u>Group A for organizations subject to reporting,</u> the results for such organizations are disclosed.

Environmental Friendliness Efficiency Indicators

The KOKUYO Group designates unique environmental friendliness efficiency indicators as indices to comprehensively evaluate financial performance and impact on the global environment.

These indicators show the extent to which products and services are being offered to society with respect to specific environmental load and correspond to the following four items.

- 1. CO2emissions
- 2. Final waste disposal
- Usage of chemical substances subject to PRTR regulations
- 4. Water usage

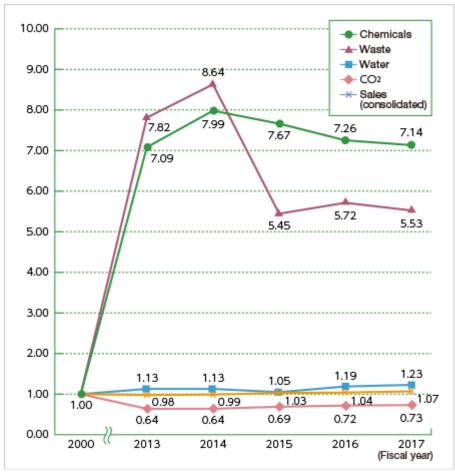
Environmental friendliness efficiency indicator =

Current fiscal year (Sales / Environmental load data)

Baseline fiscal year (Sales / Environmental load data)

Using fiscal 2000 as the baseline for each indicator, the progress status for each fiscal year can be determined.

Environmental Friendliness Efficiency Indicators



- * The scope of reporting coverage up to fiscal 2011 was <u>Group A</u>, and from fiscal 2012, it was expanded to <u>Group B</u>.
- * Chemical substances were calculated according to the amount of PRTR Law Class I
 Designated Chemical Substances used and handled by the business establishments subject
 to notification under 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.



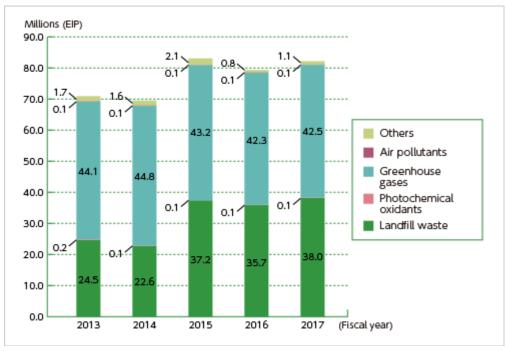
JEPIX (Japan Environmental Policy Priorities Index) is a method of quantifying the individual amount of different types of environmental loads, such as greenhouse gas emissions and air pollutants, as single indicators called Environmental Impact Points (EIP). The EIP is calculated

Environmental impact point (EIP) =

Σ (environmental loads x environmentally friendliness factors)

by multiplying the environmental load of each environmentally harmful chemical by the integrated coefficient, which is calculated from the ratio between Japan's environmental policy target and the actual amount of emissions (environmental friendliness factor), and then obtaining the sum total of them all.

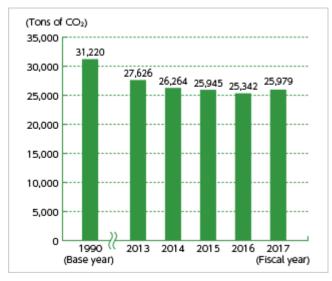
JEPIX



- * The scope of reporting coverage up to fiscal 2011 was Group A and from fiscal 2012, it was expanded to Group B
- * 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.

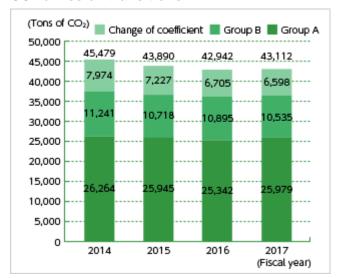
Global Warming Preventive Measures

CO2 Emission Transitions



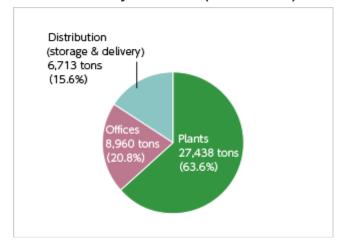
^{*} The above figures are for Group A.

CO₂ emission transitions

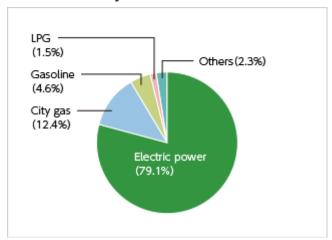


^{*} The above figures are for Group B.

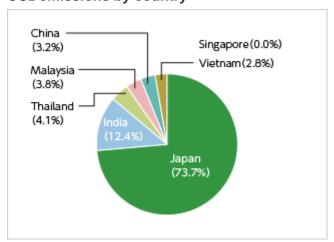
CO₂ emission by source (Tons of CO₂)



CO₂ emission by source

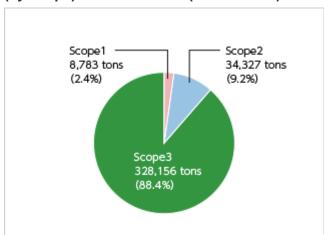


CO₂ emissions by country



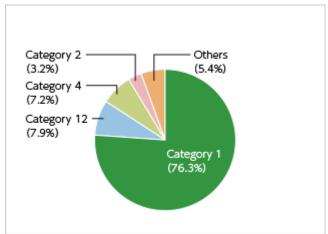
Greenhouse gases emitted by the supply chain

(by scope) (Tons of CO₂)



Greenhouse gases emitted by the supply chain

(for Scope 3)



Scope 3 categories and emissions²

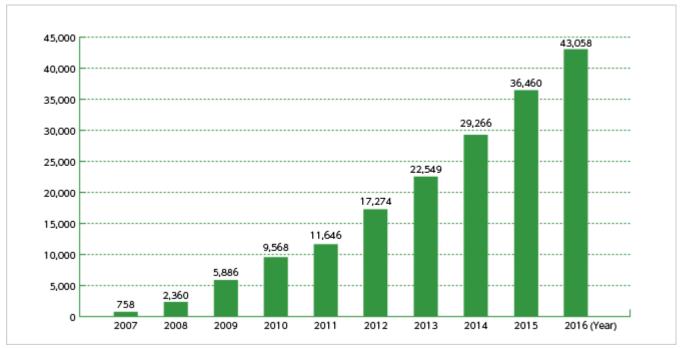
| ocope o catego | ories and emissions ² | Unit: Ions of CO | | | | |
|----------------|-----------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------|----------------------|------------------------------|--|
| Category | | Applicable/ Not applicable | Reason for Non- applicability | Scope 3 Emissions | As Percentage of Total | |
| Category 1 | Purchased products / services | Applicable | - | 250,475 | 76.3% | |
| Category 2 | Capital goods | Applicable | - | 10,474 | 3.2% | |
| Category 3 | Fuel not included in Scope 1 or 2 and energy-related activities | Applicable | - | 3,901 | 1.2% | |
| Category 4 | Shipping and delivery (upstream) | Applicable | - | 23,620 | 7.2% | |
| Category 5 | Waste materials generated by businesses | Applicable | - | 3,315 | 1.0% | |
| Category 6 | Business trips | Applicable | - | 871 | 0.3% | |
| Category 7 | Commuting by workers | Applicable | - | 2,326 | 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 gory 10 | | KOKUYO is a manufacturer of completed products and does not deal with intermediate products | - | 0.0% | |
| Category 11 | Use of sold products | Applicable | - | 5,497 | 1.7% | |
| Category 12 | Discarding of sold products | Applicable | - | 25,828 | 7.9% | |
| Category 13 | Leased assets (downstream) | Applicable | - | 1,851 | 0.6% | |
| Category 14 | Franchises | Not applicable | No franchises | - | 0.0% | |
| Category 15 | Investments | Not applicable | No investments | - | 0.0% | |
| Total | - | - | - | 328,157 | - | |

Unit: Tons of CO

Amount of CO₂ absorbed by Yui no Mori

Amount of CO2 absorbed (cumulative total)

(Tons of CO2)



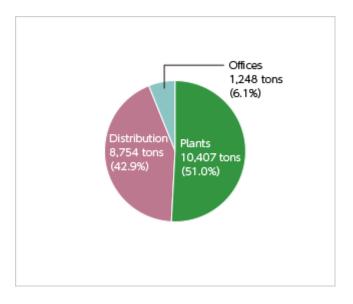
Resource Saving and Recycling

Waste Materials: Recycling and Final Disposal Amounts

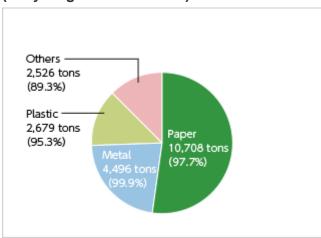


^{*} From fiscal 2012, the scope of reporting coverage was expanded to <u>Group B</u>.

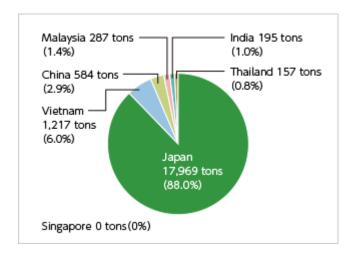
Waste Materials by Activity



Waste material types (Recycling rate in brackets)



Emissions by Country





| | | | | V | ol. Release | d | | | |
|-----------------|------------------------------------|----------------------|--------------------------------------|------------------------------------------------------------------|--------------------------------------------|-------------------------------------|-------------------|----------------------|--------------------------|
| Official No. | Chemical name | Vol. handled (kg) | Vol. Released into Air (kg) | Vol. Released into Public Bodies of Water (kg) | Vol. Released into Sewers (kg) | Vol. Sent to Landfill (kg) | Sub-total (kg) | Vol. Treated (kg) | Vol. Consumed (kg) |
| 1 | Zinc compounds (water-soluble) | 85.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 85.6 | 0.0 |
| 20 | 2-aminoethanol | 151.2 | 143.6 | 7.6 | 0.0 | 0.0 | 151.2 | 0.0 | 0.0 |
| 53 | Ethylbenzene | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 |
| 57 | Ethylene glycol monoethyl ether | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 71 | Ferric chloride | 16,244.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16,244.0 | 0.0 |
| 80 | Xylene | 34.8 | 34.8 | 0.0 | 0.0 | 0.0 | 34.8 | 0.0 | 0.0 |
| 125 | Chlorobenzene | 5.5 | 0.1 | 0.0 | 0.4 | 0.4 | 0.8 | 0.0 | 4.6 |
| 132 | Cobalt and its compounds | 4.3 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 4.2 |
| 134 | Vinyl acetate | 389.6 | 24.0 | 3.4 | 13.2 | 14.4 | 55.1 | 0.0 | 334.6 |
| 181 | Dichlorobenzene | 1.8 | 1.8 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 |
| 207 | 2,6-Di-tert-butyl-4-cresol | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 |
| 235 | Water-soluble salts of bromic acid | 786.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 786.9 | 0.0 |
| 296 | 1,2,4-trimethylbenzene | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 |
| 297 | 1,3,5-trimethylben | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| 300 | Toluene | 213.2 | 15.2 | 0.0 | 6.2 | 6.0 | 27.4 | 104.8 | 80.9 |
| 302 | Naphthalene | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 |
| 306 | Hexamethylene diacrylate | 86.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 86.4 |
| 309 | Nickel compounds | 10.4 | 0.0 | 0.0 | 0.0 | 7.3 | 7.3 | 0.0 | 3.1 |
| 354 | Di-n-butyl phthalate | 317.2 | 0.0 | 0.0 | 5.7 | 5.7 | 11.3 | 0.0 | 305.9 |
| 392 | N-hexane | 278.3 | 278.3 | 0.0 | 0.0 | 0.0 | 278.3 | 0.0 | 0.0 |

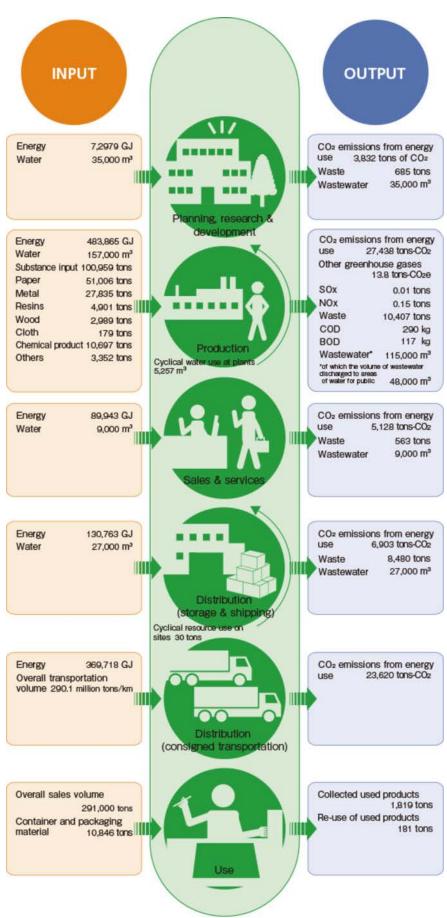
| | | | | V | ol. Release | d | | | |
|-----------------|-------------------------------------------------|----------------------|--------------------------------------|------------------------------------------------------------------|--------------------------------------------|-------------------------------------|-------------------|----------------------|--------------------------|
| Official No. | Chemical name | Vol. handled (kg) | Vol. Released into Air (kg) | Vol. Released into Public Bodies of Water (kg) | Vol. Released into Sewers (kg) | Vol. Sent to Landfill (kg) | Sub-total (kg) | Vol. Treated (kg) | Vol. Consumed (kg) |
| 403 | Benzophenone | 15.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.6 |
| 407 | Poly(oxyethylene)alkyl ether(alkyl C=12-15) | 732.0 | 0.9 | 0.0 | 0.0 | 256.9 | 257.8 | 87.9 | 386.3 |
| 410 | Poly(oxyethylene)nonylphenyl ether | 27.1 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.0 | 26.4 |
| 412 | Manganese and its compounds | 19.0 | 19.0 | 0.0 | 0.0 | 0.0 | 19.0 | 0.0 | 0.0 |
| 448 | Methylenebis(4,1- cyclohexylene)diisocyanate | 426.6 | 46.7 | 0.0 | 0.0 | 0.0 | 46.7 | 0.0 | 379.9 |
| 453 | Molybdenum and its compounds | 322.7 | 0.0 | 0.0 | 0.0 | 8.1 | 8.1 | 0.0 | 314.6 |
| Total | | 20,158.8 | 565.8 | 11.0 | 25.5 | 299.6 | 901.9 | 17,309.2 | 1,947.7 |

^{*} The volume of PRTR Law Class I Designated Chemical Substances that were used, handled, released, transferred, disposed, recycled, and consumed by the business establishments (in Japan) subject to notification under the PRTR Law. 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).

^{* &}quot;Volume treated" refers to those PRTR designated substances that were treated on site by incineration, neutralization, breaking down, reactive process, etc.

^{* &}quot;Volume consumed" 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 above figures are for Group B.

Input items

| Indicator | Unit | Calculation met |
|-----------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Volume of energy used | GJ | Power, gas (city gas, LPG, natural gas), oil (gasoline, light oil, kerosene, fuel oil A), heat (hot water, cold water) The power unit calorific values are the daytime and nighttime power values stated in the Enforcement Regulations of the Act on the Rational Use of Energy (effective from April 1, 2008). The unit calorific values of gas, oil, and heat are those values presented in the Greenhouse Gas Emission Calculation and Reporting Manual, Ver. 4.3.1 (July 2017) (Ministry of the Environment, Ministry of Economy, Trade and Industry). |
| Water | 1,000 m ³ | Tap water, water for industrial use |
| Substance Input | Tons | The volume of raw materials used to manufacture KOKUYO products |
| Overall Sales Volume | 10,000 tons | Data from furniture and stationery products |
| Container and Packaging Materials | Tons | The volume of packaging materials used to package products |

Output Items

| Indicator | Unit | Calculation Method |
|-------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CO2 Emissions from Energy Use | Tons of CO2 | CO2 emissions from the use of electricity, gas, oil, and heat. * See Global Warming Preventive Measures. Coefficients based on the Act on Promotion of Global Warming Countermeasures (actual emission coefficients for each power company for fiscal 2015 and 2016) were used to calculate the CO2 emissions from power consumption in Japan. Coefficients for each country covered on the GHG Protocol website, released by the World Business Council For Sustainable Development (WBCSD) and the World Resources Institute (WRI), were used to calculate the CO2 emissions from power consumption overseas. Values presented in the Greenhouse Gas Emission Calculation and Reporting Manual, Ver. 4.2 (April 2016) (Ministry of the Environment, Ministry of Economy, Trade and Industry) were used to calculate CO2 emissions from the use of gas, oil, and heat. The ton/kilo method and the fuel consumption method were both used to calculate the distribution (consigned transportation) CO2 emissions. |
| Other Greenhouse Gases | Tons of CO2e | Emissions of greenhouse gases (CO ₂ , CH ₄ , N ₂ O) related to production activities, (in Japan), but excluding such emissions from energy sources, have been converted to a CO ₂ basis. Emission coefficient values were taken from the Ministry of the Environment and the Ministry of Economy, Trade and Industry's Greenhouse Gas Emission Calculation and Reporting Manual, Ver. 4.3.1 (July 2017). |
| SOx, NOx | Tons | Emissions from smoke- and soot-producing facilities at manufacturing plants (in Japan) |
| Waste | Tons | The volume of discharged waste (emissions) is the total amount of waste and valuable substances discharged from business establishments. The recycle volume is the total of the volume of discharged waste (emissions) that has been recycled through material or thermal recycling, and the volume of valuable substances. The final waste volume is the combined total of the recycling residue and the volume of waste directly disposed of in landfills, out of the total volume of discharged waste (solid waste). * See Resource Saving and Recycling. If industrial waste has been calculated by cubic measurement, conversion factors (reference) 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) were used. |
| Wastewater | 1,000 m ³ | Wastewater discharged to areas of water for public use and into the sewage 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 | Tons/km | The total of the following outsourced transportation volumes: total domestic transportation in Japan including the transportation of furniture products, store fixtures, stationery products, transportation of catalog sales by Kaunet, and transportation of Actus products; and transportation of products between overseas sites and within Malaysia. |
| Cyclical Water Use at Plants | m3 | The volume of water used in a cyclical way (i.e. recycled) on business premises |
| Cyclical Resource Use on Sites | 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. |

Environmental Accounting

Environmental Accounting

(Unit: Ten thousand of yen)

| Item | Environment- related Investments | | | Costs | | Effects | | | Total | | | |
|--------------------------------------------------------|----------------------------------------|-------|------|--------|--------|---------|---------|---------|--------------|--------|--------|--------|
| | 2015 | 2016 | 2017 | 2015 | 2016 | 2017 | 2015 | 2016 | 2017 | 2015 | 2016 | 2017 |
| Pollution prevention | 158 | 125 | 0 | 876 | 7,283 | 3,352 | 0 | 0 | 0 | 1,034 | 7,408 | 3,352 |
| Global warming prevention | 2,768 | 916 | 0 | 505 | 259 | 1,740 | ▲3,162 | ▲210 | ▲ 110 | 111 | 965 | 1,630 |
| Resource saving and recycling | 1,640 | 98 | 0 | 27,891 | 30,731 | 31,339 | ▲16,663 | ▲13,840 | ▲18,055 | 12,867 | 16,989 | 13,284 |
| Procurement and provision of eco- friendly products | 0 | 0 | 0 | 11,575 | 8,744 | 8,663 | 0 | 0 | 0 | 11,575 | 8,744 | 8,663 |
| Survey and research into environmental technology | 0 | 0 | 0 | 49 | 569 | 2,190 | 0 | 0 | 0 | 49 | 569 | 2,190 |
| Environmental communication | 0 | 0 | 0 | 3,187 | 1,893 | 1,445 | 0 | 0 | 0 | 3,187 | 1,893 | 1,445 |
| Setting up management structures | 0 | 0 | 0 | 2,896 | 3,699 | 3,605 | 0 | 0 | 0 | 2,896 | 3,699 | 3,605 |
| Environmental damage response | 0 | 0 | 0 | 287 | 43 | 0 | 0 | 0 | 0 | 287 | 43 | 0 |
| Total | 4,566 | 1,139 | 0 | 47,265 | 53,221 | 52,334 | ▲19,825 | ▲14,050 | ▲18,165 | 32,006 | 40,309 | 34,169 |

 $^{^{\}ast}$ The above figures are for $\underline{\text{Group B}}.$

Breakdown of economic effects

| ltem | Content of countermeasures | 2015 | 2016 | 2017 |
|----------------------------------------------------|------------------------------------------------------------|---------|-------------|-------------|
| Clabal warming provention | Effects of introducing energy-saving facilities | ▲1,518 | ▲ 71 | ▲ 50 |
| Global warming prevention | Effects of improving operations | ▲1,644 | ▲139 | ▲ 60 |
| Resource saving and recycling | Income from sorting and recycling of waste materials | ▲14,488 | ▲13,840 | ▲18,055 |
| | Waste reduction | ▲275 | 0 | 0 |
| Procurement and provision of eco-friendly products | Cost reductions achieved through the use of recycled items | ▲1,900 | 0 | 0 |
| Total | | ▲19,825 | ▲14,050 | ▲18,165 |

Sites with ISO 14001 Certification

| No. | Company Name | Site Name | | |
|-----|-----------------------------|----------------------------------------------------|--|--|
| 1 | | Head Office (including XT and WS) | | |
| 2 | | Shinagawa Office | | |
| 3 | | Shinagawa SST Office | | |
| 4 | | Kasumigaseki Office | | |
| 5 | KOKUYO | Osaki Office | | |
| 6 | nono i o | Nagoya Office | | |
| 7 | | Umeda Office | | |
| 8 | | Mie Factory | | |
| 9 | | Shibayama Factory | | |
| 10 | | Fukutani Office | | |
| 11 | KOKUYO K Heart | Head Office | | |
| 12 | KOKUYO MVP | Tottori Factory | | |
| 13 | NOROTO WIT | Aoya Factory | | |
| 14 | KOKUYO Product Shiga | Head Office | | |
| 15 | | Head Office | | |
| 16 | | Sendai Distribution Center | | |
| 17 | | Gunma Distribution Center | | |
| 18 | | Central Japan Delivery and Distribution Center | | |
| 19 | | Central Japan Delivery Center | | |
| 20 | | Shin Chiba Distribution Center | | |
| 21 | KOKUYO Logitem | Shiga Distribution Center | | |
| 22 | | Mie Distribution Center | | |
| 23 | | Ina Distribution Center | | |
| 24 | | Chubu Delivery and Distribution Center | | |
| 25 | | Fujiwara Distribution Center | | |
| 26 | | Okayama Distribution Center | | |
| 27 | | Saga Office | | |
| 28 | | Kansai Delivery and Distribution Center | | |
| 29 | | Head Office | | |
| 30 | | Ibaraki Distribution Center | | |
| 31 | | Central Japan Integrated Distribution Center | | |
| 32 | VOVIIVO Summitu La minitura | Chubu Integrated Distribution Center | | |
| 33 | KOKUYO Supply Logistics | Shiga National Distribution Center | | |
| 34 | | Osaka Nanko Distribution Center | | |
| 35 | | Kyushu Integrated Distribution Center | | |
| 36 | | Kinki Integrated Distribution Center | | |

| No. | Company Name | Site Name | |
|-----|----------------------------|--------------------------------------|--|
| 37 | | Head Office | |
| 38 | | Sapporo Distribution Center | |
| 39 | | East Japan Distribution Center | |
| 40 | Kaunet | Central Japan Distribution Center | |
| 41 | | West Japan Distribution Center | |
| 42 | | Fukuoka Distribution Center | |
| 43 | | Head Office | |
| 44 | | Tohoku Branch | |
| 45 | KOKUYO Engineering | Chubu Branch | |
| 46 | &Technology | Kansai Office | |
| 47 | | Hiroshima Office | |
| 48 | | Kyushu Branch | |
| 49 | | Head Office | |
| 50 | | Tachikawa Office | |
| 51 | | Chiba Office | |
| 52 | | Saitama Office | |
| 53 | | Yokohama Office | |
| 54 | | Nagano Office | |
| 55 | | Matsumoto Office | |
| 56 | | Nagoya Office | |
| 57 | | Shizuoka Office | |
| 58 | | Umeda Office | |
| 59 | | Kyoto Office | |
| 60 | KOKUYO Marketing | Kobe Office | |
| 61 | | Wakayama Office | |
| 62 | | Hiroshima Office | |
| 63 | | Yamaguchi Office | |
| 64 | | Matsue Office | |
| 65 | | Fukuoka Office | |
| 66 | | Nagasaki Office | |
| 67 | | Kagoshima Office | |
| 68 | | Miyazaki Office | |
| 69 | | Kumamoto Office | |
| 70 | | Oita Office | |
| 71 | | Okinawa Office | |
| 72 | KOKUYO (Malaysia) | Head Office | |
| 73 | KOKUYO-IK Thailand | Head Office | |
| 74 | KOKUYO Camlin | SAMBA PLANT | |
| 75 | KOKUYO Camlin | TARAPUR | |
| 76 | KOKUYO Camlin | JAMMU PLANT | |
| 77 | KOKUYO Commerce (Shanghai) | Head Office | |
| 78 | KOKUYO Commerce (Shanghai) | Shanghai Factory | |
| 79 | KOKUYO Commerce (Shanghai) | Beijing Office | |
| 80 | KOKUYO Commerce (Shanghai) | Shenzhen Office | |

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Reports by Business Sites

KOKUYO measures the impact on the natural environment of the activities of its principal business sites in Japan and overseas and uses this information when considering appropriate policies, setting objectives, and carrying out other activities.



Reports on Business Sites in Japan

KOKUYO discloses such information on five manufacturing plants in Japan.

- * In the 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.
- X CO2 emissions were calculated by applying the emission coefficient for each power company.
- * Wastewater emissions are disclosed herein only for those business sites where measurements of such emissions are required by law; however, since abnormal pH values were detected at the KOKUYO Product Shiga site in fiscal 2007, its emissions have been measured and disclosed voluntarily.
 - KOKUYO(Mie Plant)
- (Shibayama Plant)
- KOKUYO Product

- KOKUYO MVP (Tottori Factory)
- KOKUYO MVP (Aoya Factory)

Reports on Business Sites Overseas

Information on 8 plants located in Thailand, Malaysia, Vietnam, China, and India (5 plants) are hereby disclosed. CO2 emissions increased due to higher production at plants in Malaysia and India for fiscal 2016.

- * CO2 emissions were calculated by applying the emission coefficient for each country.
- KOKUYO-IK (Thailand)
- KOKUYO (Malaysia)
- KOKUYO Vietnam

- KOKUYO COMMEREC (SHANGHAI) CO.,LTD Shanghai Factory
- , KOKUYO Camlin (Tarapur Factory, India)
- KOKUYO Camlin (Taloja Factory, India)

- KOKUYO Camlin (Samba Factory, India)
- KOKUYO Camlin (Jammu Factory, 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 m² |



| Inputs | | 2015 | 2016 | 2017 |
|-----------------------------------------|-----------------------------------|---------|---------|---------|
| | Volume of energy inputs | 93,619 | 94,093 | 99,464 |
| Energy (GJ) | Fuel | 35,714 | 35,306 | 36,972 |
| | Electricity | 57,905 | 58,787 | 62,493 |
| Water resources (m³) | City/well water | 36,323 | 36,802 | 37,345 |
| Ou | tputs | 2015 | 2016 | 2017 |
| | CO2 | 4,699 | 4,650 | 5,051 |
| Atmospheric emissions (t) | SOx | 0.02 | 0.02 | 0.01 |
| | NOx | 0.24 | 0.28 | 0.15 |
| | Total waste volume | 1,236 | 1,328 | 1,321 |
| Waste emissions (t) | Reuse/heat recovery | 1,235 | 1,327 | 1,321 |
| | Final disposal | 1 | 1 | 1 |
| | Volume of effluent | 32,985 | 33,709 | 34,091 |
| Emissions into bodies of water (m³) | Emissions into public water areas | 32,985 | 33,709 | 34,091 |
| | Emissions into sewage systems | - | - | - |
| | Hydrogen ion concentration (PH) | 7.2~7.7 | 7.3~8.1 | 7.2~7.7 |
| Restricted items emitted into bodies of | COD (mg/L) | 12.8 | 6.8 | 22 |
| water | BOD (mg/L) | 2.1 | 2.1 | 9 |
| | SS (mg/L) | 2.9 | 4.3 | 7.0 |

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 m² |



| Inputs | | 2015 | 2016 | 2017 |
|-----------------------------------------|-----------------------------------|---------|---------|---------|
| | Volume of energy inputs | 130,228 | 120,595 | 123,128 |
| Energy (GJ) | Fuel | 64,255 | 59,229 | 63,116 |
| | Electricity | 65,974 | 61,366 | 60,011 |
| Water resources (m³) | City/well water | 18,326 | 16,282 | 15,746 |
| Ou | tputs | 2015 | 2016 | 2017 |
| | CO2 | 6,644 | 6,087 | 6,135 |
| Atmospheric emissions (t) | SOx | - | - | - |
| | NOx | - | - | - |
| | Total waste volume | 2,779 | 2,482 | 2,647 |
| Waste emissions (t) | Reuse/heat recovery | 2,779 | 2,482 | 2,647 |
| | Final disposal | 0 | 0 | 0 |
| | Volume of effluent | 12,370 | 11,114 | 10,537 |
| Emissions into bodies of water (m³) | Emissions into public water areas | 4,838 | 3,357 | 5,093 |
| | Emissions into sewage systems | 7,532 | 7,757 | 5,444 |
| | Hydrogen ion concentration (PH) | 7.0 | 7.6 | 7.0 |
| Restricted items emitted into bodies of | COD (mg/L) | 6.0 | 2.0 | 3.7 |
| water | BOD (mg/L) | 1.0 | 1.5 | 1.0 |
| | SS (mg/L) | 0.5 | 2.6 | 10.9 |

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 m² |



| Inputs | | 2015 | 2016 | 2017 |
|-----------------------------------------|-----------------------------------|---------|---------|---------|
| | Volume of energy inputs | 62,034 | 60,819 | 61,706 |
| Energy (GJ) | Fuel | 1,092 | 1,207 | 1,222 |
| | Electricity | 60,943 | 59,612 | 60,483 |
| Water resources (m³) | City/well water | 5,833 | 6,063 | 6,330 |
| Ou | tputs | 2015 | 2016 | 2017 |
| | CO2 | 3,297 | 3,157 | 3,164 |
| Atmospheric emissions (t) | SO× | - | - | - |
| | NOx | - | - | - |
| | Total waste volume | 2,472 | 2,415 | 2,536 |
| Waste emissions (t) | Reuse/heat recovery | 2,472 | 2,415 | 2,536 |
| | Final disposal | 0 | 0 | 0 |
| | Volume of effluent | 5,781 | 6,031 | 6,267 |
| Emissions into bodies of water (m³) | Emissions into public water areas | - | - | - |
| | Emissions into sewage systems | 5,781 | 6,031 | 6,267 |
| | Hydrogen ion concentration (PH) | 6.7~9.3 | 6.7~9.3 | 6.6~9.0 |
| Restricted items emitted into bodies of | COD (mg/L) | 2.8 | 2.7 | 3.3 |
| water | BOD (mg/L) | 1.5 | 1.4 | 7.2 |
| | SS (mg/L) | 2.4 | 2.9 | 11 |

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 m² |



| Inputs | | 2015 | 2016 | 2017 |
|-------------------------------------|-----------------------------------|---------------------------|---------------------------|---------------------------|
| | Volume of energy inputs | 16,598 | 15,401 | 17,530 |
| Energy (GJ) | Fuel | 1,057 | 679 | 1,243 |
| | Electricity | 15,541 | 14,722 | 16,287 |
| Water resources (m³) | City/well water | 8,974 | 8,997 | 7,113 |
| Ou | tputs | 2015 | 2016 | 2017 |
| | CO2 | 1,179 | 1,079 | 1,216 |
| Atmospheric emissions (t) | SOx | - | - | - |
| | NOx | - | - | - |
| | Total waste volume | 939 | 901 | 938 |
| Waste emissions (t) | Reuse/heat recovery | 932 | 893 | 925 |
| | Final disposal | 7 | 8 | 13 |
| | Volume of effluent | 8,974 | 8,997 | 7,113 |
| Emissions into bodies of water (m³) | Emissions into public water areas | - | - | - |
| | Emissions into sewage systems | 8,974 | 8,997 | 7,113 |
| | Hydrogen ion concentration (PH) | Not subject to regulation | Not subject to regulation | Not subject to regulation |
| Restricted items | COD (mg/L) | Not subject to regulation | Not subject to regulation | Not subject to regulation |
| emitted into bodies of water | BOD (mg/L) | Not subject to regulation | Not subject to regulation | Not subject to regulation |
| | SS (mg/L) | Not subject to regulation | 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 m² |



| Inputs | | 2015 | 2016 | 2017 |
|-----------------------------------------|-----------------------------------|---------------------------|---------------------------|---------------------------|
| | Volume of energy inputs | 13,691 | 14,117 | 13,938 |
| Energy (GJ) | Fuel | 690 | 557 | 858 |
| | Electricity | 13,001 | 13,560 | 13,081 |
| Water resources (m³) | City/well water | 4,026 | 4,122 | 4,282 |
| Ou | tputs | 2015 | 2016 | 2017 |
| | CO ₂ | 966 | 985 | 960 |
| Atmospheric emissions (t) | SOx | - | - | - |
| | NOx | - | - | - |
| | Total waste volume | 406 | 420 | 440 |
| Waste emissions (t) | Reuse/heat recovery | 406 | 420 | 440 |
| | Final disposal | 0 | 0 | 0 |
| | Volume of effluent | 4,026 | 4,122 | 4,282 |
| Emissions into bodies of water (m³) | Emissions into public water areas | 4,026 | 4,122 | 4,282 |
| | Emissions into sewage systems | - | - | - |
| | Hydrogen ion concentration (PH) | 6.9 | 6.1 | 6.5 |
| Restricted items emitted into bodies of | COD (mg/L) | Not subject to regulation | Not subject to regulation | Not subject to regulation |
| water | BOD (mg/L) | 1.2 | 1.5 | 3.5 |
| | SS (mg/L) | 6.8 | 3.3 | 6 |

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 m² |



| Inputs | | 2015 | 2016 | 2017 |
|-----------------------------------------|-----------------------------------|--------|--------|--------|
| | Volume of energy inputs | 33,576 | 32,017 | 35,765 |
| Energy (GJ) | Fuel | 645 | 612 | 594 |
| | Electricity | 32,931 | 31,406 | 35,171 |
| Water resources (m³) | City/well water | 18,073 | 17,628 | 18,411 |
| Ou | tputs | 2015 | 2016 | 2017 |
| | CO ₂ | 1,713 | 1,615 | 1,803 |
| Atmospheric emissions (t) | SOx | - | - | - |
| | NOx | - | - | - |
| | Total waste volume | 170 | 186 | 157 |
| Waste emissions (t) | Reuse/heat recovery | 136 | 158 | 128 |
| | Final disposal | 34 | 28 | 30 |
| | Volume of effluent | 14,458 | 14,102 | 14,726 |
| Emissions into bodies of water (m³) | Emissions into public water areas | - | - | - |
| | Emissions into sewage systems | 14,458 | 14,102 | 14,726 |
| Restricted items emitted into bodies of | Hydrogen ion concentration (PH) | 7.9 | 7.8 | 7.2 |
| | COD (mg/L) | 162.5 | 93.9 | 105.5 |
| water | BOD (mg/L) | 26.9 | 16.7 | 22.1 |
| | SS (mg/L) | 45.5 | 51.8 | 40.5 |

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 m² |



| Inputs | | 2015 | 2016 | 2017 |
|-----------------------------------------|-----------------------------------|--------|--------|--------|
| | Volume of energy inputs | 22,450 | 23,750 | 25,300 |
| Energy (GJ) | Fuel | 6,749 | 6,190 | 7,948 |
| | Electricity | 15,700 | 17,560 | 17,352 |
| Water resources (m³) | City/well water | 5,696 | 12,857 | 12,852 |
| Ou | tputs | 2015 | 2016 | 2017 |
| | CO2 | 1,426 | 1,513 | 1,591 |
| Atmospheric emissions (t) | SOx | - | - | - |
| | NOx | - | - | - |
| | Total waste volume | 330 | 351 | 287 |
| Waste emissions (t) | Reuse/heat recovery | 330 | 351 | 233 |
| | Final disposal | 0 | 0 | 54 |
| | Volume of effluent | 2,502 | 2,614 | 2,539 |
| Emissions into bodies of water (m³) | Emissions into public water areas | 1,234 | 1,184 | 1,173 |
| | Emissions into sewage systems | 1,268 | 1,429 | 1,366 |
| Restricted items emitted into bodies of | Hydrogen ion concentration (PH) | 7.5 | 7.9 | 7.8 |
| | COD (mg/L) | 28.7 | 32.6 | 32.7 |
| water | BOD (mg/L) | 6.2 | 13.6 | 8.7 |
| | SS (mg/L) | 6.1 | 5.2 | 8.9 |

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 m² |



| Inputs | | 2015 | 2016 | 2017 |
|-------------------------------------|-----------------------------------|----------------------------|----------------------------|----------------------------|
| | Volume of energy inputs | 35,698 | 33,347 | 33,452 |
| Energy (GJ) | Fuel | 607 | 531 | 581 |
| | Electricity | 35,092 | 32,816 | 32,872 |
| Water resources (m³) | City/well water | 11,931 | 8,514 | 9,699 |
| Ou | tputs | 2015 | 2016 | 2017 |
| | CO2 | 1,328 | 1,187 | 1,192 |
| Atmospheric emissions (t) | SOx | - | - | - |
| | NOx | - | - | - |
| | Total waste volume | 1,140 | 1,004 | 1,217 |
| Waste emissions (t) | Reuse/heat recovery | 883 | 767 | 975 |
| | Final disposal | 257 | 237 | 242 |
| | Volume of effluent | 9,545 | 6,811 | 7,759 |
| Emissions into bodies of water (m³) | Emissions into public water areas | - | - | - |
| | Emissions into sewage systems | 9,545 | 6,811 | 7,759 |
| Restricted items | Hydrogen ion concentration (PH) | 7.26 | 7.20 | 7.32 |
| | COD (mg/L) | 82.7 | 89.3 | 183.5 |
| emitted into bodies of water | BOD (mg/L) | 49.9 | 40 | 121.5 |
| | SS (mg/L) | Not subject to measurement | Not subject to measurement | Not subject to measurement |

KOKUYO COMMEREC (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 m² |



| Inputs | | 2015 | 2016 | 2017 |
|-----------------------------------------------------|-----------------------------------|----------------------------|----------------------------|----------------------------|
| | Volume of energy inputs | 10,933 | 11,017 | 11,049 |
| Energy (GJ) | Fuel | - | 812 | 554 |
| | Electricity | 10,933 | 10,205 | 10,494 |
| Water resources (m³) | City/well water | 2,212 | 1,930 | 1,457 |
| Ou | ıtput | 2015 | 2016 | 2017 |
| | CO2 | 813 | 806 | 810 |
| Atmospheric emissions (t) | SOx | - | - | - |
| | NOx | - | - | - |
| | Total waste volume | 690 | 423 | 584 |
| Waste emissions (t) | Reuse/heat recovery | 572 | 400 | 542 |
| | Final disposal | 118 | 24 | 42 |
| | Volume of effluent | 1,991 | 1,737 | 1,311 |
| Emissions into bodies of water (m³) | Emissions into public water areas | - | - | - |
| | Emissions into sewage systems | 1,991 | 1,737 | 1,311 |
| | Hydrogen ion concentration (PH) | Not subject to measurement | Not subject to measurement | Not subject to measurement |
| Restricted items emitted into bodies of water | COD (mg/L) | Not subject to measurement | Not subject to measurement | Not subject to measurement |
| | BOD (mg/L) | Not subject to measurement | Not subject to measurement | Not subject to measurement |
| | SS (mg/L) | Not subject to measurement | Not subject to measurement | Not subject to measurement |

KOKUYO Camlin (Tarapur Factory, 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 m² |

| Inputs | | 2015 | 2016 | 2017 |
|-----------------------------------------|-----------------------------------|--------|--------|--------|
| | Volume of energy inputs | 33,568 | 31,750 | 35,651 |
| Energy (GJ) | Fuel | 1,197 | 734 | 1,202 |
| | Electricity | 32,371 | 31,015 | 34,450 |
| Water resources (m³) | City/well water | 42,428 | 21,163 | 23,058 |
| Ou | tputs | 2015 | 2016 | 2017 |
| | CO2 | 3,033 | 2,928 | 3,279 |
| Atmospheric emissions (t) | SOx | - | - | - |
| | NOx | - | - | - |
| | Total waste volume | 88 | 100 | 87 |
| Waste emissions (t) | Reuse/heat recovery | 88 | 99 | 84 |
| | Final disposal | 0 | 1.3 | 2.5 |
| | Volume of effluent | 12,828 | 21,163 | 9,620 |
| Emissions into bodies of water (m³) | Emissions into public water areas | 754 | 564 | 637 |
| | Emissions into sewage systems | 12,074 | 20,599 | 8,983 |
| Restricted items emitted into bodies of | Hydrogen ion concentration (PH) | 7.5 | 6.4 | 6.6 |
| | COD (mg/L) | 74.0 | 97.0 | 87.0 |
| water | BOD (mg/L) | 14.0 | 20.0 | 15.0 |
| | SS (mg/L) | 23.0 | 19.0 | 13.0 |

KOKUYO Camlin (Taloja Factory, 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 m² |

| Inputs | | 2015 | 2016 | 2017 |
|-----------------------------------------|-----------------------------------|-------|-------|-------|
| | Volume of energy inputs | 2,752 | 3,415 | 2,580 |
| Energy (GJ) | Fuel | 188 | 225 | 120 |
| | Electricity | 2,565 | 3,189 | 2,460 |
| Water resources (m³) | City/well water | 8,281 | 8,580 | 9,376 |
| Ou | tputs | 2015 | 2016 | 2017 |
| | CO2 | 246 | 312 | 237 |
| Atmospheric emissions (t) | SOx | - | - | - |
| | NOx | - | - | - |
| | Total waste volume | 0.5 | 0.5 | 0 |
| Waste emissions (t) | Reuse/heat recovery | 0 | 0 | 0 |
| | Final disposal | 0.5 | 0.5 | |
| | Volume of effluent | 8,281 | 8,580 | 9,376 |
| Emissions into bodies of water (m³) | Emissions into public water areas | - | - | - |
| | Emissions into sewage systems | 8,281 | 8,580 | 9,376 |
| Restricted items emitted into bodies of | Hydrogen ion concentration (PH) | 5.8 | 7.4 | 7.4 |
| | COD (mg/L) | 28.0 | 76.0 | 76.0 |
| water | BOD (mg/L) | 10.0 | 25.0 | 25.0 |
| | SS (mg/L) | 46.0 | 13.0 | 13.0 |

KOKUYO Camlin (Samba Factory, 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 m² |

| Inputs | | 2015 | 2016 | 2017 |
|-----------------------------------------------------|-----------------------------------|-------|--------|--------|
| Energy (GJ) | Volume of energy inputs | 8,378 | 10,606 | 12,120 |
| | Fuel | 1,170 | 1,967 | 1,584 |
| | Electricity | 7,208 | 8,639 | 10,536 |
| Water resources (m³) | City/well water | 9,466 | 9,660 | 4,594 |
| Outputs | | 2015 | 2016 | 2017 |
| Atmospheric emissions (t) | CO2 | 735 | 937 | 1,087 |
| | SOx | - | - | - |
| | NOx | - | - | - |
| Waste emissions (t) | Total waste volume | 39.1 | 66.1 | 94.4 |
| | Reuse/heat recovery | 38.7 | 64.2 | 94.4 |
| | Final disposal | 0.4 | 2 | 0 |
| Emissions into bodies of water (m³) | Volume of effluent | 9,466 | 9,660 | 4,594 |
| | Emissions into public water areas | - | - | - |
| | Emissions into sewage systems | 9,466 | 9,660 | 4,594 |
| Restricted items emitted into bodies of water | Hydrogen ion concentration (PH) | 7.3 | 7.3 | 7.25 |
| | COD (mg/L) | 114.0 | 102.0 | 113.0 |
| | BOD (mg/L) | 22.5 | 18.0 | 18.0 |
| | SS (mg/L) | 52.0 | 18.0 | 22.0 |

KOKUYO Camlin (Jammu Factory, India)

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

| Inputs | | 2015 | 2016 | 2016 |
|-----------------------------------------------------|-----------------------------------|---------------------------|---------------------------|---------------------------|
| Energy (GJ) | Volume of energy inputs | 5,494 | 1,903 | 6,264 |
| | Fuel | 551 | 315 | 187 |
| | Electricity | 4,944 | 1,588 | 6,077 |
| Water resources (m³) | City/well water | 9,600 | 3,600 | 3,000 |
| Outputs | | 2015 | 2016 | 2017 |
| Atmospheric emissions (t) | CO2 | 489 | 169 | 577 |
| | SOx | - | - | - |
| | NOx | - | - | - |
| Waste emissions (t) | Total waste volume | 1.6 | 13.8 | 13.3 |
| | Reuse/heat recovery | 0 | 13.8 | 13.3 |
| | Final disposal | 1.6 | 0 | 0 |
| Emissions into bodies of water (m³) | Volume of effluent | 9,600 | 3,600 | 3,000 |
| | Emissions into public water areas | 9,600 | 3,600 | 3,000 |
| | Emissions into sewage systems | - | - | - |
| Restricted items emitted into bodies of water | Hydrogen ion concentration (PH) | Not subject to regulation | Not subject to regulation | Not subject to regulation |
| | COD (mg/L) | Not subject to regulation | Not subject to regulation | Not subject to regulation |
| | BOD (mg/L) | Not subject to regulation | Not subject to regulation | Not subject to regulation |
| | SS (mg/L) | Not subject to regulation | Not subject to regulation | Not subject to regulation |

