TOPPAN

CSR Report 2017: Detailed Data

Editorial Policy

This PDF discloses detailed data not presented in the Toppan CSR Report 2017.

The CSR report is edited in line with the seven core subjects set under ISO 26000, a guidance standard on social responsibility. In the *Detailed Data*, Toppan also uses the core subjects as its main titles.

Scope and Boundary

The data on Labor Practices covers Toppan Printing Co., Ltd. only. The scope of the environmental performance data is presented in the table below, which shows indicators assured by an independent assurance provider.

Reliability

KPMG AZSA Sustainability Co., Ltd. provides independent assurance for this PDF, along with the *Toppan CSR Report 2017*. The following are environmental performance indicators in the *Detailed Data* assured by the independent assurance provider.

Environmental Performance Indicators Assured by an Independent Assurance Provider and

Scope of the Environmental Performance Data

(1) Toppan Printing Co., Ltd. ("the Company")

0 15 domestic manufacturing subsidiaries subject to the Company's environmental targets

3 19 domestic subsidiaries not subject to the Company's environmental targets

④ 22 overseas subsidiaries

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	Env	ironmental Accounting	Capital Investment for Environmental Conservation	<i>√</i>	53	-
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Note: Total values may not exactly match the sum totals of individual values, as decimals are rounded up or down.

Contact Information

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Organizational Governance

Directors and Corporate Auditors

List of Directors and Corporate Auditors (as of June 30, 2017)

	Name	Male / Female	Current position	Independence	First year as director or corporate auditor	Tenure in years	Attendance at the Board of Directors meeting	Number of shares of the Company held (thousands)
1	Naoki Adachi	Male	Chairman & Representative Director		1993	24	17/17	261
2	Shingo Kaneko	Male	President & Representative Director		2003	14	17/17	170
3	Yoshiyuki Nagayama	Male	Executive Vice President		2004	13	16/17	135
4	Yukio Maeda	Male	Senior Managing Director		2016	2	13/13	99
5	Shinichi Ohkubo	Male	Senior Managing Director		2005	12	16/17	142
6	Hidetaka Kakiya	Male	Senior Managing Director		2008	9	17/17	109
7	Atsushi Ito	Male	Senior Managing Director		2007	10	17/17	99
8	Makoto Arai	Male	Senior Managing Director		2008	9	17/17	103
9	Hideharu Maro	Male	Senior Managing Director		2009	8	17/17	73
10	Naoyuki Matsuda	Male	Senior Managing Director		2010	7	17/17	73
11	Nobuaki Sato	Male	Managing Director		2010	7	17/17	60
12	Taro Izawa	Male	Managing Director		2011	6	17/17	52
13	Kunio Sakuma	Male	Director	External	2010	7	16/17	3
14	Yoshinobu Noma	Male	Director	External Independent	2010	7	15/17	69
15	Ryoko Toyama	Female	Director	External Independent	2016	1	11/13	0
16	Sumio Ezaki	Male	Director		2011	6	13/17	44
17	Yasuhiko Yamano	Male	Director		2011	6	17/17	45
18	Tetsuro Ueki	Male	Director		2015	2	17/17	14
19	Norio Yamanaka	Male	Director Newly appointed on June 29, 2017		2017	1	_	22
20	Mitsuhiro Nakao	Male	Director Newly appointed on June 29, 2017		2017	1	_	28
1	Jitsumei Takamiyagi	Male	Senior Audit & Supervisory Board Member		2014	3		170
2	Seishi Tanoue	Male	Audit & Supervisory Board Member		2015	2		17
3	Shuya Nomura	Male	Audit & Supervisory Board Member	External	2010	7		0
4	Hiroyuki Shigematsu	Male	Audit & Supervisory Board Member	External Independent	2014	3		0
5	Keiko Kakiuchi	Female	Audit & Supervisory Board Member	External Independent	2016	1		0

Average tenure in years

6.72

Independence of the Directors

The Board of Directors elects two or more candidates for Independent Directors. When it elects such candidates, it judges the independence of Independent Directors in accordance with "Independence Standards for External Officers of Toppan Printing Co., Ltd." in the Appendix of the Corporate Governance Policy.

Toppan complies to the Tokyo Stock Exchange securities listing regulations (Rule 436-2. Securing Independent Director(s)/ Auditor(s)), the Corporate Governance Code (Principle 4-8, Effective use of independent external director), and Japan's corporate law. The highest level of requirement with regard to independent board members is 2 independent board directors outlined in the Corporate Governance Code. Thus, to meet this requirement we have appointed 2 independent directors.

Basic Policy on Corporate Governance of Toppan Printing Co., Ltd. (PP. 16-18)

Diversity of the Directors Appointed

Basic Policy on Corporate Governance of Toppan Printing Co., Ltd. (PP. 8-9)

Effectiveness of the Board of Directors

Basic Policy on Corporate Governance of Toppan Printing Co., Ltd. (P. 9) Corporate Governance Report

Remuneration of the Chief Executive Officer and Directors

Annual Report 2017 (P. 45)

Labor Practices

Results in Human Asset* Development as precious "human assets."						
	Funds Spent on Training,	Usage Rates of Toppan Training Centers*1				
	etc. per Employee	Kawaguchi	Yugawara			
Fiscal 2014	77,654 yen	92.5%	42.9%			
Fiscal 2015	79,251 yen	85.7%	45.1%			
Fiscal 2016	70,783 yen	87.0%	45.8%			

*1 Usage rates are calculated by dividing the number of days the training centers are used by the number of days the centers are available (excluding holidays, etc.)

Retention Rates for Recruits (Percentage of fiscal 2014 hires still working at Toppan)

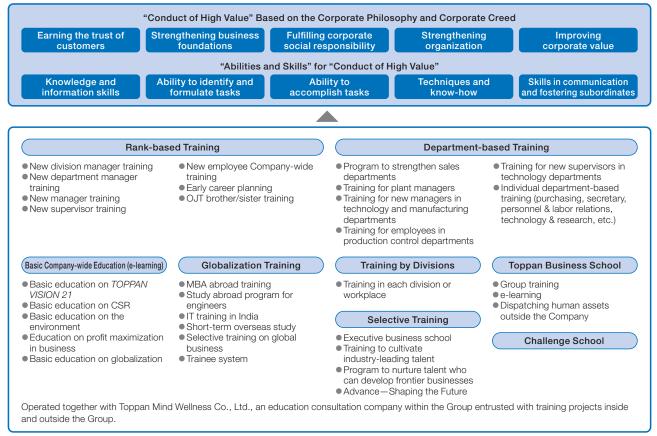
	Male	Female	
Hired on April 1, 2014	164	86	
Still with Toppan as of April 1, 2017	148	80	
Retention rates	90%	93%	
Average for male and female employees	91%		
Percentage who leave the Company before working three years	9%		

Main Leave Systems and Family Benefits / Measures to Support Work-Life Balance and Foster the Next Generation

*Toppan values its employees

Stock Leave	Employees can accumulate up to 50 days of annual paid leave (exercisable within two years from the date the days are granted). Employees are eligible to use their stock leave for medical treatment for themselves or their dependents, healthcare or nursing care for their families, fertility treatment, recovery-work in the aftermath of unexpected disasters, and so on.
Childcare Leave	Both mothers and fathers are eligible for fulltime childcare leave consecutively until the first March 31 after their child reaches the age of 12 months. (As of March 31, 2017, a cumulative total of 356 male employees have taken childcare leave.) The first five days of childcare leave can be taken as paid leave. From the sixth day, employees on leave receive 10% of their regular salaries from the Company (until their child reaches the age of 18 months) and subsidies of 30,000 yen a month from the Toppan Group Fraternal Benefit Society. They can also work for shorter hours (maximum reduction of two hours per day) or select a flextime or irregular working schedule from the date of their return to the job until their child completes the fourth year of elementary school. The Company subsidizes certain childcare costs and provides childcare-related information through a consultation office.
Rehiring of Employees who Leave the Company to Raise Children	Rehiring is guaranteed for an employee who resigns to deliver and raise a child, provided that the employee has worked for Toppan for more than three consecutive years up to the date of resignation. A resigned employee who meets this condition will remain eligible for rehiring until May 1 of the year when the child enters elementary school.
Nursing Care Leave	Employees are entitled to take leave for nursing care. For every family member requiring care, an employee is entitled to one year of consecutive or aggregated leave and up to three years of other work-hour adjustments such as staggered working hours or two-hour working day reductions. The Toppan Group Fraternal Benefit Society pays a 30,000-yen subsidy per month as assistance during the leave. Toppan offers nursing care-related information and contracts consultants outside the Company to provide advice.
Leave for Child Healthcare	Employees can take up to 10 days of leave a year, regardless of the number of children they are raising. (Five days can be taken as paid leave, either as full days or half-day allotments, as necessary.)
Volunteer Leave	Employees can take volunteer leave to engage in socially beneficial activities for up to one year. Employees on volunteer leave receive an allowance.
Staggered Work-hours	An employee can adjust daily working hours upward or downward by one hour to avoid rush-hour commutes during pregnancy and by two hours for childcare (until his or her child completes the fourth year of elementary school).
Dependent Family Allowance	For employees with children, the Company pays a monthly allowance of 20,000 yen for each child. This allowance is discontinued on the first April 1 to arrive after the child's 20th birthday. (No limit for the number of children is applied.)
Partial Subsidization of Babysitter Expenses	The Toppan Group Fraternal Benefit Society subsidizes 50% of babysitter expenses (up to 5,000 yen per day) for up to 90 days a year.
Other	The Toppan Group Health Insurance Union covers standard medical costs for childbirth. It also gives out a complimentary childrearing magazine and runs a consultation office for employees with questions about the health of the body and mind.

Systematic Human Asset Development Programs



The Environment

Values, Results, and Evaluation of Environmental Targets for Fiscal 2016 and Environmental Target Values for Fiscal 2017

			Environmental				
Environmental Targets	Management Indicators	Target Values	Results	Achievement Rates	Evaluation	Target Values for Fiscal 2017	
1. Mitigation of global warming							
Reduce CO ₂ emissions	CO ₂ emissions	550 kilotons	561 kilotons	98.1%	В	550 kilotons	
 Action for building a recycling- oriented society 							
Reduce final landfill waste disposal	Final landfill waste disposal	130 tons	97 tons	125.6%	S	100 tons	
3. Conservation of the atmospheric environment							
Reduce VOC emissions into the atmosphere	VOC emissions into the atmosphere	3,400 tons	3,403 tons	99.9%	В	3,200 tons	

Evaluation criteria

S: Results achieved far surpass the targets (achievement rate [%] \geq 105) A: Targets achieved (100 \leq achievement rate [%] < 105) B: Activities fully carried out, but targets unachieved (70 \leq achievement rate [%] < 100)

C: Activities insufficient (achievement rate [%] < 70) Achievement rates: 200 – (values actually achieved / target values) \times 100 [%]

Medium-and-long-term Environmental Targets for Fiscal 2020

① Mitigation of global warming	 Reduce CO₂ emissions by 30% compared to the fiscal 2008 level (751 kilotons → 530 kilotons: -221 kilotons)
② Action for building a recycling- oriented society	 Reduce final landfill waste disposal by 95% compared to the fiscal 2008 level (1,584 tons → 80 tons: -1,504 tons)
3 Conservation of the atmospheric environment	 Reduce VOC emissions into the atmosphere by 70% compared to the fiscal 2008 level (7,326 tons → 2,198 tons: -5,128 tons)

Toppan's Environmental Burden*1

INPUT/OUTPUT Data by Business Field for Domestic Sites (subject to the environmental targets)

Category	Chief Component	Information & Communication	Living & Industry	Electronics	Non-production sites	Total
	Total input (tons)	714,652	504,542	25,661	0	1,244,854
	Papers (tons)	691,404	280,215	49	0	971,668
Material	Plastic (tons)	3,018	169,277	2,510	0	174,805
Material	Glass (tons)	0	71	8,042	0	8,113
	Ink, solvent (tons)	12,055	44,883	2,948	0	59,886
	Other (tons)	8,175	10,097	12,111	0	30,383
	Total energy consumption (1,000 GJ)	3,209	5,527	3,490	616	12,842
5 Energy	Primary energy [fuel] (1,000 GJ)	959	2,199	367	91	3,616
	Secondary energy [electricity, steam] (1,000 GJ)	2,250	3,328	3,123	524	9,226
=	Water consumption (1,000 m ³)	775	1,557	4,029	338	6,699
	Industrial water (1,000 m ³)	229	412	266	7	913
Water	Municipal water (1,000 m ³)	344	602	39	320	1,305
vvaler	Groundwater (1,000 m ³)	201	542	3,724	1	4,468
	Rainwater used (1,000 m ³)	2	0	0	10	12
	Use of water circulated on premises (1,000 m ³)	11	17	3,621	0	3,649
Chemical substances	Handling of chemical substances designated under the PRTR law (tons)	398	1,942	2,083	2	4,424
	CO ₂ emission (t-CO ₂)	135,896	259,470	140,285	24,879	560,530
	CO ₂ emission [fuel] (t-CO ₂)	49,375	131,254	20,199	4,715	205,542
	CO2 emission [electricity, steam] (t-CO2)	86,521	128,216	120,086	20,164	354,987
Atmosphere	Emission of dioxins (mg-TEQ)	3	1	0	0	4
	Release of chemical substances designated under the PRTR law (tons)	28	111	1	0	141
	VOC emission into the atmosphere (tons)*2	450	2,899	55	0	3,403
	Total effluent discharge (1,000 m ³)	420	872	3,525	302	5,119
5	Into public water system (1,000 m ³)	10	388	3,286	0	3,683
	Into sewage system (1,000 m ³)*3	410	484	239	302	1,436
Water and soil	BOD (kg)	13	1,042	8,413	0	9,468
environments	COD (kg)	0	2,385	5,420	0	7,804
	Nitrogen discharge (kg)	0	2,540	8,902	0	11,442
	Phosphorous discharge (kg)	0	372	313	0	686
	Release of chemical substances designated under the PRTR law (tons)	0	0	1	0	1
	Total discharge (tons)	106,025	101,011	16,731	3,806	227,573
Waste	Recycled (tons)	105,868	100,509	16,726	3,782	226,885
	Final landfill disposal (tons)	16	65	7	8	97

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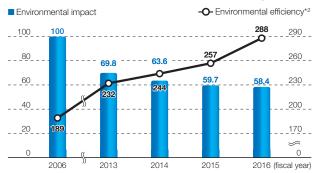
	Category	Chief Component	Information & Communication	Living & Industry	Electronics	Non-production sites	Total
_		Total input (tons)	455,411	72,020	674	0	528,106
		Papers (tons)	443,970	4,503	4	0	448,477
	Matavial	Plastic (tons)	3,247	64,369	5	0	67,621
	Material	Glass (tons)	1	0	59	0	60
		Ink, solvent (tons)	6,130	2,227	240	0	8,597
		Other (tons)	2,063	921	367	0	3,351
		Total energy consumption (1,000 GJ)	2,181	677	438	0	3,297
F	Energy	Primary energy [fuel] (1,000 GJ)	189	65	46	0	301
INPUT		Secondary energy [electricity, steam] (1,000 GJ)	1,992	612	392	0	2,996
=		Water consumption (1,000 m ³)	1,552	67	907	0	2,525
		Industrial water (1,000 m ³)	28	0	0	0	28
	Water	Municipal water (1,000 m ³)	236	67	14	0	316
	Water	Groundwater (1,000 m ³)	1,276	0	893	0	2,169
		Rainwater used (1,000 m ³)	12	0	0	0	12
		Use of water circulated on premises (1,000 m ³)	1	0	17	0	18
	Chemical substances	Handling of chemical substances designated under the PRTR law (tons)	18	19	55	0	91
		CO ₂ emission (t-CO ₂)	87,196	26,928	18,250	0	132,375
		CO ₂ emission [fuel] (t-CO ₂)	10,594	3,398	3,176	0	17,168
	Atmosphere	CO ₂ emission [electricity, steam] (t-CO ₂)	76,602	23,530	15,074	0	115,207
		Release of chemical substances designated under the PRTR law (tons)	0	0	0	0	1
		VOC emission into the atmosphere (tons)	446	920	5	0	1,371
		Total effluent discharge (1,000 m ³)	964	48	851	0	1,862
⊢		Into public water system (1,000 m ³)	771	33	849	0	1,653
DUTPUT		Into sewage system (1,000 m ³)	192	15	2	0	209
DUT	Water and soil	BOD (kg)	599	123	3,226	0	3,948
0	environments	COD (kg)	1,992	0	0	0	1,992
		Nitrogen discharge (kg)	452	0	0	0	452
		Phosphorous discharge (kg)	11	0	0	0	11
		Release of chemical substances designated under the PRTR law (tons)	0	0	1	0	1
		Total discharge (tons)	52,953	11,528	1,247	1,384	67,113
	Waste	Recycled (tons)	52,632	11,435	1,227	1,384	66,678
		Final landfill disposal (tons)	29	10	0	0	39

INPUT/OUTPUT Data by Business Field for Domestic Sites (not subject to the environmental targets)

INPUT/OUTPUT Data by Business Field for Overseas Sites (not subject to the environmental targets)

	Category	Chief Component	Information & Communication	Living & Industry	Electronics	Non-production sites	Total
		Total input (tons)	137,386	184,190	1,296	—	322,872
		Papers (tons)	129,681	147,517	36	_	277,234
	NALL SIL	Plastic (tons)	1,322	19,624	51	_	20,997
	Material	Glass (tons)	0	0	60	_	60
		Ink, solvent (tons)	2,937	15,998	257	-	19,192
⊢		Other (tons)	3,445	1,051	891	_	5,388
INPUT		Total energy consumption (1,000 GJ)	844	1,141	901	-	2,887
≤	Energy	Primary energy [fuel] (1,000 GJ)	88	371	15	-	474
		Secondary energy [electricity, steam] (1,000 GJ)	756	771	886	-	2,412
		Water consumption (1,000 m ³)	602	340	415	—	1,356
	Water	Municipal water (1,000 m ³)	602	308	357	—	1,267
	Water	Groundwater (1,000 m ³)	0	31	58	—	89
		Rainwater used (1,000 m ³)	0	0	0	—	0
		CO ₂ emission (t-CO ₂)	55,767	69,878	60,188	—	185,834
	Atmosphere	CO ₂ emission [fuel] (t-CO ₂)	4,637	18,618	970	-	24,225
		CO ₂ emission [electricity, steam] (t-CO ₂)	51,131	51,260	59,218	—	161,609
		Total effluent discharge (1,000 m ³)	602	340	415	—	1,356
		Into public water system (1,000 m ³)	0	9	164	—	173
5		Into sewage system (1,000 m ³)	522	256	163	—	940
DUTPU	Water and soil environments	BOD (kg)	0	0	488	—	488
б		COD (kg)	0	0	840	—	840
		Nitrogen discharge (kg)	0	0	289	—	289
		Phosphorous discharge (kg)	0	0	1	—	1
		Total discharge (tons)	37,990	28,267	1,857	—	68,115
	Waste	Recycled (tons)	36,696	25,129	1,634	-	63,459
		Final landfill disposal (tons)	1,256	2,764	153	-	4,172

Environmental Impact and Environmental Efficiency*1



*1 The value in fiscal 2006 = 100 (baseline); Recalculated with non-production sites excluded.

*2 Environmental efficiency = net sales / environmental impact

Environmental Management Activities

(56 systems at 112 sites, as of March 31, 2017)

■ISO 14001 Certificates Obtained at Toppan Printing Co., Ltd. and Domestic Manufacturing Subsidiaries (subject to the environmental targets)

Operational SiteRegistrarDegistrarDegistrarDateElectronics DivisionBVJul. 1998Environmental Design Subdivision [Kashiwa Plant and Satte Plant of Toppan Decor Products Inc.] (Living & Industry Division)ICLMar. 2000Tokyo-based sites (Information & Communication Manufacturing Subdivision)SAI GLOBALFeb. 2002Fukusaki Plant [Including Wakayama Plant and Fukusaki Plant of Toppan Plastic Co., Ltd.] (Toppan Packaging Products Co., Ltd.)JQAJul. 2002Takino SiteJQAOct. 2002Azusawa Site, Atago Site, Niiza Site, Kawaguchi Site, Sakado Site, Sagamihara Site, Numazu Site (Toppan Logistics Co., Ltd.)JQAJul. 2003Mito Plant (Toppan Prosprint Co., Ltd.)JQAJul. 2004Oct. 2002Azusawa Site, Atago Site, Niiza Site, Kawaguchi Site, Sakado Site, Sagamihara Site, Numazu Site (Toppan Logistics Co., Ltd.)JQAJul. 2003Mito Plant (Toppan Prosprint Co., Ltd.)JQAJul. 2004Apr. 2004Fukuyama Plant, Miyagi Plant, Sano Plant (Toppan Containers Co., Ltd.)JQAApr. 2004Higashinihon SubdivisionICLMar. 2005May 2005Sapporo Plant and Chitose Plant (Toppan Packaging Service Co., Ltd.)JQAMar. 2007Sagamihara Plant (Toppan Packaging Service Co., Ltd.)JQAFeb. 2007Sagamihara Plant (Toppan Packaging Service Co., Ltd.)GLOBALMar. 2007Sagamihara Plant (Toppan Packaging Products Co., Ltd.)GLOBALMar. 2007Sagamihara Plant (Toppan Packaging Products Co., Ltd.)ICL <th>Operational Site</th> <th></th> <th>Registration</th>	Operational Site		Registration
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	Chubu Division	JQA	Dec. 2010

■ISO 14001 Certificates Obtained at Domestic Subsidiaries (not subject to the environmental targets)

Operational Site (Group Company)	Registrar	Registration Date
Total Media Development Institute Co., Ltd.	JSA	Mar. 2001
Head office and Saitama Plant (Livretech Co., Ltd.)	JCQA	Jul. 2001
Fukushima Plant [including Takino Plant, Sagamihara Plant] (Toppan TDK Label Co., Ltd.)	RB-ISO	Nov. 2001
Central Research Center (Toppan Forms Co., Ltd.)	JQA	Mar. 2004
Toppan Forms Tokai Co., Ltd.	JQA	Aug. 2004
Toppan Forms Kansai Co., Ltd.	JQA	Apr. 2007
Toppan Forms Nishinihon Co., Ltd.	JQA	Jan. 2005
Hino Plant (Toppan Media Printec Tokyo Co., Ltd.)	JSA	Nov. 2005
Zama Plant (Toppan Media Printec Tokyo Co., Ltd.)	JACO	Sep. 2009
Kansai Tosho Printing Co., Ltd.	JQA	Jun. 2005
Tosho Printing Co., Ltd.	Intertek	May 2003
Head office and Kochi Plant (Ortus Technology Co., Ltd.)	BV	Feb. 2008
Toppan Forms (Sanyo) Co., Ltd.	JQA	Oct. 2009
Gunma Plant (Tamapoly Co., Ltd.)	JQA	Feb. 2011
Toppan Forms Central Products Co., Ltd.	JQA	Sep. 2011
Sanda Plant (Tamapoly Co., Ltd.)	JQA	Jan. 2012
Tokyo Logistics Co., Ltd.	JIA-QA	Aug. 2001

■ISO 14001 Certificates Obtained at Overseas Subsidiaries (not subject to the environmental targets)

Group Company	Registrar	Registration Date
Toppan Photomasks France SAS	LRQA	Oct. 2000
Toppan Photomasks, Inc. [Round Rock]	LRQA	Nov. 2001
Siam Toppan Packaging Co., Ltd.	MASCI	Apr. 2002
Toppan Printing Co., (H.K.) Ltd.	DNV	May 2002
Toppan Chunghwa Electronics Co., Ltd.	SGS	Oct. 2003
PT. Indonesia Toppan Printing	LRQA	Nov. 2004
Toppan Photomasks Korea Limited Toppan Photomasks Co., Ltd. Shanghai	LRQA	Feb. 2005
Toppan SMIC Electronics (Shanghai) Co., Ltd.	SGS	Feb. 2007
Toppan Leefung Printing (Shanghai) Co., Ltd.	CCCI	Apr. 2007
Shanghai Toppan Printing Co., Ltd.	NQA	Jul. 2008
Toppan Leefung Changcheng Printing (Beijing) Co., Ltd.	ZDHY	Nov. 2009
Toppan Leefung Printing Limited (H.K.) Toppan Leefung Packaging & Printing (Dongguan) Co., Ltd.	CNAS	Mar. 2009
Toppan Excel Printing (Guangzhou) Company Limited	CTC	May 2009
Toppan Excel Printing (Meizhou) Co., Ltd.	CQC	Sep. 2013
Toppan Security Printing Pte. Ltd.	TUV	Aug. 2010
Toppan Win Label Company Limited	CQC	Nov. 2012
Toppan Yau Yue Paper Products (Dongguan) Co., Ltd. Toppan Yau Yue Packaging (Dongguan) Co., Ltd.	Intertek	May 2016

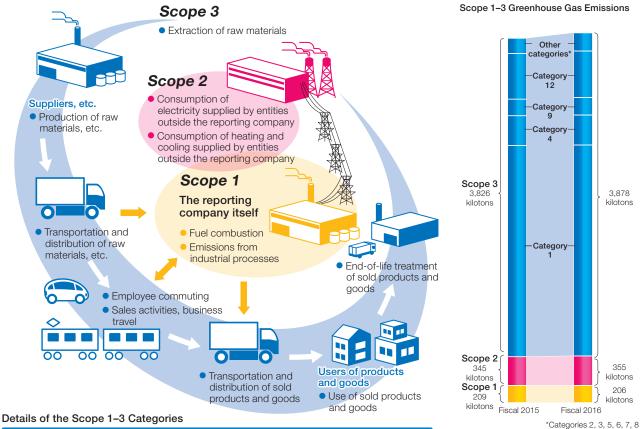
Fiscal 2016 Results of Environmental Education

Training	Number of Trainees
New employee training: General environmental education	347
E-learning program: CSR for fiscal 2016	20,426
Toppan Business School (1 course)	16
Toppan Challenge School (10 courses)	57
Internal environmental auditor training program	312

Numbers of Internal Environmental Audits and Issues in Need of Improvement

Domestic sites audited	58 sites	
Issues in need of improvement identified at domestic sites	107 issues	
Domestic sites reviewed	2 sites	

Mitigating Global Warming Greenhouse Gas Emissions throughout the Entire Supply Chain



Emissions Types

Direct emissions (Scope 1)	Direct emissions from industrial processes or fuels consumed at the reporting company
Indirect emissions	Indirect emissions associated with the consumption of electricity, heating, or cooling
(Scope 2)	purchased or acquired by the reporting company

ndirect Emissions Not Included in Scope 2 (Scope 3)		Calculation Methods		
inuirect Emiss	sions ivot included in Scope 2	(Scope 3)	Activity Quantity	Basic Unit from
Category 1	Purchased goods and services Emissions associated with activities up to the point of the production of raw materials, components, goods, sales-related materials, or the like purchased or acquired by the reporting company		Materials purchased or acquired (by weight)	CFP-DB*2
Category 2	Capital goods	Emissions that occur during the construction or production of capital goods purchased or acquired by the reporting company	Capital investments by business field	MOE-DB*1
Category 3	Fuel- and energy-related activities (not included in scope 1 or scope 2)	Emissions associated with the procurement of fuels supplied by entities outside the reporting company or fuels necessary for the generation, etc. of electricity, heating, cooling, etc. consumed by the reporting company	 Electricity and steam consumption Fuel consumption 	1. MOE-DB*1 2. CFP-DB*2
Category 4	Upstream transportation and distribution	Emissions associated with logistics up to the point of the arrival of incoming raw materials, components, goods, sales-related materials, or the like purchased or acquired by the reporting company; transportation and distribution of products sold by the	 Freight ton-kilometers as a designated shipper classified under the Energy Saving Act of Japan Estimated freight ton-kilometers 	1. Energy Saving Act of Japan 2. CFP-DB*2
		reporting company	of procurement logistics	2. CFP-DB ^{*2}
Category 5	Waste generated in operations	Emissions associated with the transportation and treatment of waste generated at the reporting company	Waste discharge by type	MOE-DB*1
Category 6	Business travel	Emissions associated with business travel by employees	Business travel expenses by transport mode	MOE-DB*1
Category 7	Employee commuting	Emissions associated with the commuting of employees between their homes and worksites	Commuter fares or petrol costs	MOE-DB*1
Category 8	Upstream leased assets	Emissions associated with the operation of assets leased by the reporting company (lessee), excluding scope 1 and scope 2 emissions	Electricity and gas consumed at tenant premises	Emission factors by business
Category 9	Downstream transportation and distribution	Emissions associated with the transportation, storage, loading, or retailing of sold products after delivery to customers	Estimated freight ton-kilometers by product	CFP-DB*2
Category 10	Processing of sold products	Emissions associated with the processing of sold intermediate products by downstream companies	Excluded from calculation because there a units that apply universally to Toppan's div	
Category 11	Use of sold products	Emissions associated with the end use of sold products by users (consumers, downstream companies)	Not applicable	
Category 12	End-of-life treatment of sold products	Emissions associated with the transportation and treatment of sold products at the end of their life by users (consumers, downstream companies)	Waste disposal by product (estimated)	CFP-DB*2
Category 13	Downstream leased assets	Emissions associated with the operation of assets owned by the reporting company (lessor)	Not applicable	
Category 14	Franchises	Emissions from franchise members	Not applicable	
Category 15	Investments	Emissions related to the operation of investments	Excluded from calculation	

Notes
Toppan calculates its scope 3 emissions for categories 1-9 and 12.
The calculation boundary covers Toppan Printing Co., Ltd. and 15 domestic manufacturing subsidiaries subject to the Company's environmental targets.

The calculation boundary covers toppan Printing CC., Ltd. and is comestic manufacturing subsidiaries subject to the Company's environmental targets.
 For "freight ton-kilometers as a designated shipper classified under the Energy Saving Act of Japan" in category 4, "business travel" in category 6, and "employee commuting" in category 7, Toppan has estimated total values across the calculation boundary in terms of the proportion of production volume or employee numbers based on the values counted for organizations whose activities are quantifiable.
 *1 MOE-DB: Emission unit database issued by the Ministry of the Environment of Japan for calculating the greenhouse gas emissions, etc. of organizations throughout

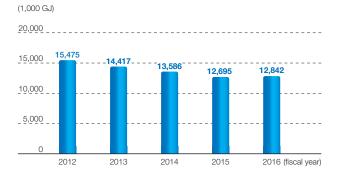
the entire supply chain (ver. 2.0) *2 CFP-DB: Standard database (ver. 1.01) of the Japan Environmental Management Association for Industry (JEMAI) Carbon Footprint of Products (CFP) Communication

Program

Mitigation of Global Warming through the Development of Energy-saving Measures

	Main Measures in Fiscal 2016	Reduction Result (t-CO ₂ /year)	Main Plans for Fiscal 2017	Reduction Target (t-CO ₂ /year)	
Information &	 Replaced existing cooling machines with high-efficiency alternatives (Sakado, Itabashi) 	2,063	 Replace existing boilers with high-efficiency alternatives (Kawaguchi) 	1.541	
Communication	Replaced existing compressors with low- pressure types (Ranzan)	2,005	 Replace existing cooling machines with high-efficiency alternatives (Sendai) 	1,541	
Living & Industry	Replaced existing cooling machines with high-efficiency alternatives (Toppan Packaging Products Fukuoka)	3,944	Replace existing compressors with high- efficiency alternatives (Toppan Packaging Service Ranzan, Toppan Packaging Service Kyushu)	3,344	
0	Replaced existing compressors with high- efficiency alternatives (Sagamihara)		 Replace existing air conditioners with high- efficiency alternatives (Matsusaka) 		
Electronics	 Saved energy used to operate cooling-water pumps by adopting a pipe-wear-reducing agent (Shiga) 	558	 Apply inverter control for compressors (Kumamoto) 	721	
Liectronics	Replaced existing effluent processing pumps with high-efficiency alternatives (Kumamoto)		 Replace existing cooling machines with high-efficiency alternatives (Niigata) 		
Non-production sites	Replaced existing power receipt and substation equipment with high-efficiency alternatives (Ebie)	47	Switch to LED lights (Ebie)		
	 Saved electricity through energy-saving activities (Toppan Logistics) 	-47	Revamp the pure-water supply line (Toppan Technical Research Institute)	4	
Total	-	6,519	-	5,610	

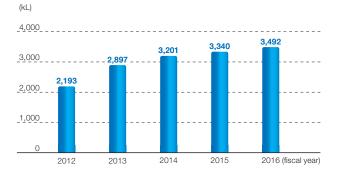
Energy Consumption



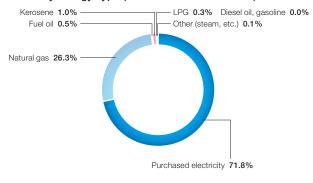
Electricity Consumption



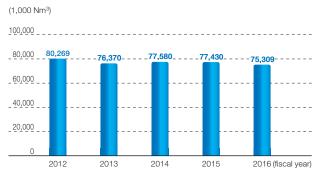
Kerosene Consumption



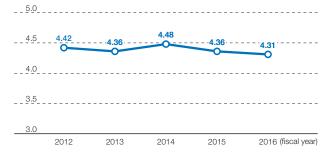
Ratios by Energy Type (in terms of calorific value)



Natural Gas Consumption



Fuel Efficiency of Vehicles Owned by Toppan Logistics $(\mbox{\sc km/L})$



*The data for energy consumption and natural gas consumption in fiscal 2015 have been restated based on revised calculation methods.

Ratios of Greenhouse Gas Emissions by Type (in tons of CO₂ equivalent)

Fiscal Year	CO ₂	CH ₄	N ₂ O	PFC	Total
2016	99.62%	0.11%	0.24%	0.02%	882,070 t-CO ₂

Ratios of Greenhouse Gas Emissions by Source (in tons of CO2 equivalent)

	Sco	pe 1	Scope 2	
Fiscal Year	Fuel Consumption	Non-energy-derived Greenhouse Gases	Electricity and Steam Consumption	Total
2016	26.14% (230,590 t-CO ₂)	2.23% (19,677 t-CO ₂)	71.63% (631,803 t-CO ₂)	100% (882,070 t-CO ₂)

Notes • Calculated by the method specified in the Guidelines for Calculating Greenhouse Gas Emissions from Businesses (2003) issued by the Ministry of the Environment of Japan.

 The greenhouse gas (GHG) emissions from domestic sites (subject to and not subject to the environmental targets) and overseas sites in fiscal 2016 are based
 on calculations of emissions of energy-derived CO₂ and non-energy-derived CO₂, CH₄, N₂O, HFC, PFC, SF₆, and NF₃. GHG emissions accounting for 0.01% or more of total emissions in CO₂-equivalent values from these sites (namely, emissions associated with dry etching, dry ice consumed, waste burned in incinerators, combusted refuse-derived fuel, and fuel consumed in cogeneration systems) are included.

Calculated Level of Fluorocarbon Leakage

Fiscal Year	Domestic Sites (subject to the environmental targets)	Domestic Sites (not subject to the environmental targets)	Overseas Sites
2016	2,405 t-CO ₂	762 t-CO ₂	1,425 t-CO ₂

Notes: The data for domestic sites subject to and not subject to the environmental targets are calculated in conformance with the Act on Rational Use and Proper Management of Fluorocarbons enforced in April 2015 in Japan. The data for overseas sites are calculated based on methods corresponding to the Japanese Act on Rational Use and Proper Management of Fluorocarbons.

Building a Recycling-oriented Society

Promotion of Was	te Reduction and Recycling	
	Main Measures in Fiscal 2016	F

	Main Measures in Fiscal 2016	Reduction Result (tons/year)	Main Plans for Fiscal 2017	Reduction Target (tons/year)	
Information & Communication	Takino: Reduced the discharge of waste oil by reusing residual ink	-95	Itabashi: Reduce the generation of waste plastics by improving arrangements in the production process	-88	
Communication	Sakado: Reduced the discharge of garbage by installing garbage treatment units		Nagoya: Separate waste plastic containers for reuse as valuable resources		
Living & Industry	Takino: Reduced the discharge of waste paper by reducing initial paper loss	-2,268	Satte: Process plastic pallets into valuable resources	-541	
	Fukusaki: Processed aluminum-deposition films into valuable resources	-2,200	Wakayama: Reduce the generation of waste plastics by reducing process loss		
Electropics	Kumamoto: Salvaged machinery parts and electrical components for reuse as valuable resources	-69	Shiga: Process waste acid into valuable resources	-88	
	Tamana: Reduced the generation of waste wood by asking contractors to collect pallets for carrying materials in the plant	-09	by reviewing raw materials	-00	
Non-production sites	Ebie: Reduced the discharge of waste liquids by reviewing the proof process	-7	Toppan Logistics: Separate waste paper for reuse as valuable resources	-14	
Total	_	-2,439	_	-731	

Note: Includes measures to reduce waste discharge per unit of production value, improve material recycling rates, reduce final landfill waste disposal, and expand the number of certified zero-emission sites.

Type of Waste	Waste Discharged (tons)	Ratio	Recycling Rate	Primary Reusage
Waste paper	166,920	73.3%	99.9%	Recycled paper
Waste plastic	27,715	12.2%	99.3%	Plastic materials, RPF*1
Waste oil	6,826	3.0%	99.4%	Recycled oil, fuel
Sludge	5,385	2.4%	98.3%	Roadbed materials
Waste metal	4,462	2.0%	99.9%	Metal materials
Waste alkali	4,789	2.1%	99.7%	Neutralizer
Waste acid	6,089	2.7%	99.0%	Neutralizer
Waste wood	2,585	1.1%	100.0%	Woodchip, paper materials
Cinder	813	0.4%	97.9%	Roadbed materials
Other	1,122	0.5%	92.2%	_
Waste glass	564	0.2%	99.0%	Glass materials
Food waste	304	0.1%	83.5%	Feed
Total	227,573	100.0%	99.7%	_

Fiscal 2016 Results of Waste Discharge and Recycling

*1 Refuse Paper & Plastic Fuel (RPF): Solid fuel primarily made from refuse paper and plastic waste

Zero-emission Sites (TZERO-16) (61 sites approved in July 2016)

Operational Site (Division or Group Company)	Total Waste Generation in Fiscal 2015 (tons)	Waste Recycled in Fiscal 2015 (tons)	Recycling Rate in Fiscal 2015 (%)	Rank
apporo Plant (Hokkaido Subdivision)	2,111	2,111	100.00	S
endai Plant (Higashinihon Division)	4,400	4,392	99.83	S
abashi Site	6,786	6,757	99.57	S
saka Site [Commercial Printing, Publications Printing]				
Toppan Communication Products Co., Ltd.)	3,894	3,887	99.84	S
saka Site (Toppan Joho Kako Co., Ltd.)				
saka Securities Printing Plant (Toppan Communication Products Co., Ltd.)	3,250	3,250	100.00	S
awaguchi Site	39,898	39,898	100.00	S
akado Site	25,612	25,612	100.00	S
anzan Plant (Toppan Communication Products Co., Ltd.)	805	805	100.00	S
lagoya Plant (Chubu Division)	7,072	7,068	99.94	S
akino Plant (Toppan Communication Products Co., Ltd.)	9,466	9,384	99.13	A+
akino Securities Printing Plant (Toppan Communication Products Co., Ltd.)	1,012	1,001	98.89	A
ukuoka Plant (Toppan Communication Products Co., Ltd.)	6,019	6,019	100.00	S
ukuyama Plant (Toppan Joho Kako Co., Ltd.)	1,940	1,925	99.19	A+
yodo Plant (Toppan Communication Products Co., Ltd.)	326	324	99.39	A+
Chitose Plant (Toppan Packaging Products Co., Ltd.)	3,215	3,151	98.00	А
aunma Central Plant (Toppan Packaging Products Co., Ltd.)	11,016	11,001	99.86	S
agamihara Plant (Toppan Packaging Products Co., Ltd.)	17,039	17,039	100.00	S
latsusaka Plant (Toppan Packaging Products Co., Ltd.)	3,101	3,063	98.78	A
akino Plant (Toppan Packaging Products Co., Ltd.)	4,888	4,888	100.00	S
ukusaki Plant (Toppan Packaging Products Co., Ltd.)	6,900	6,773	98.16	А
ukusaki Plant (Toppan Plastic Co., Ltd.)	330	330	100.00	S
ukuoka Plant (Toppan Packaging Products Co., Ltd.)	5,981	5,976	99.93	S
fiyata Plant (Toppan Packaging Service Co., Ltd.)	112	112	100.00	S
likkabi Plant (Toppan Packaging Products Co., Ltd.)	2,851	2,849	99.93	S
amana Plant (Toppan Packaging Products Co., Ltd.)	4,978	4,978	100.00	S
liyagi Plant (Toppan Containers Co., Ltd.)	3,111	3,110	99.97	S
ano Plant (Toppan Containers Co., Ltd.)	3,524	3,495	99.19	A+
aitama Plant (Toppan Containers Co., Ltd.)	9,109	9,046	99.31	A+ A+
oshigaya Plant (Toppan Plastic Co., Ltd.)	174	173	99.28	A+ A+
atte Plant (Toppan Plastic Co., Ltd.)	485	480	98.85	A
/akayama Manufacturing Section (Fukusaki Plant of Toppan Plastic Co., Ltd.)			100.00	
aga Plant (Toppan Plastic Co., Ltd.)	235	235	100.00	S
lanzan Plant (Toppan Packaging Service Co., Ltd.)	467	467	100.00	S
odegaura Beverage Plant (Toppan Packaging Service Co., Ltd.)	1,574	1,574	100.00	S
Cyushu Plant (Toppan Packaging Service Co., Ltd.)	128	128	100.00	S
Nito Plant (Toppan Prosprint Co., Ltd.)	4,514	4,506	99.83	S
atte Plant (Toppan Packaging Products Co., Ltd.)	453	453	100.00	S
ashiwa Plant (Toppan Decor Products Inc.)	491	491	100.00	S
atte Plant (Toppan Decor Products Inc.)	5,539	5,539	100.00	S
larima Plant (Toppan Plastic Co., Ltd.)	663	663	100.00	S
ansai Bottling Co., Ltd.	82	82	99.89	S
saka Plant (Toppan Electronics Products Co., Ltd.)	119	119	100.00	S
higa Plant (Toppan Electronics Products Co., Ltd.)	455	455	100.00	S
higa Plant (Toppan TOMOEGAWA Optical Films Co., Ltd.)	431	428	99.14	
lie Plant [Kameyama] (Toppan Electronics Products Co., Ltd.)	2,515	2,515	100.00	S
lie Plant [Hisai] (Toppan Electronics Products Co., Ltd.)	2,384	2,384	100.00	S
liigata Plant (Toppan Electronics Products Co., Ltd.)	4,643	4,643	100.00	S
umamoto Plant (Toppan Electronics Products Co., Ltd.)	4,177	4,177	100.00	S
oyama Plant (Toppan Electronics Products Co., Ltd.)	130	130	100.00	S
oppan Technical Research Institute (Toppan Printing Co., Ltd.)	453	451	99.71	S
akado Distribution Processing Center (Toppan Logistics Co., Ltd.)	886	886	100.00	S
agamihara Plant (Toppan TDK Label Co., Ltd.)	401	401	99.91	S
akino Plant (Toppan TDK Label Co., Ltd.)	394	394	99.99	S
ukushima Plant (Toppan TDK Label Co., Ltd.)	2,056	2,055	99.93	S
rocessing Research Institute (Tamapoly Co., Ltd.)	173	173	100.00	S
Sunma Plant (Tamapoly Co., Ltd.)	2,831	2,783	98.30	A
anda Plant (Tamapoly Co., Ltd.)	2,947	2,947	100.00	S
ochigi Plant (Tamapoly Co., Ltd.)	1,999	1,997	99.91	S
			99.86	S
	60/01			
aitama Plant (Livretech Co., Ltd.)	6,942	6,933		
	6,942 761 245	760 245	99.95	S S

Note: Toppan approves operational sites as zero-emission sites based on a three-level grading system according to their recycling rates. S-rank site: recycling rate of 99.5% or over; A+-rank site: recycling rate of 99% or over and less than 99.5%; A-rank site: recycling rate of 98% or over and less than 99% Operational sites satisfying any of the above criteria were approved as zero-emission sites in July 2016.

Preventing Pollution / Controlling Chemical Substances

PRTR No.	Chemical Substance	Handled	Released				Total
	Chemical Substance	nanuleu	neleaseu	1. Atmosphere	2. Water	3. Soil	Transferre
20	2-aminoethanol	21,714	0	0	0	0	6,09
44	Indium and its compounds	3,564	2	0	2	0	
53	Ethylbenzene	21,898	1,937	1,937	0	0	77
59	Ethylenediamine	4,359	0	0	0	0	4,3
71	Ferric chloride	1,644,774	1	0	1	0	1,577,6
76	Epsilon-caprolactam	2,251	0	0	0	0	24
80	Xylene	57,467	2,597	2,597	0	0	78
87	Chromium and chromium (III) compounds	23,092	11	0	11	0	16,2
88	Chromium (VI) compounds	13,216	0	0	0	0	1,1
151	1,3-dioxolane	9,254	463	463	0	0	1,9
213	N,N-dimethylacetamide	2,422	145	145	0	0	3
243	Dioxins (mg-TEQ)	855	1	1	0	0	8
245	Thiourea	1,589	1	0	1	0	1,5
272	Copper salts (water-soluble, except complex salts)	246,106	854	0	854	0	108,1
296	1,2,4-trimethylbenzene	102,265	6,213	6,213	0	0	15,3
297	1,3,5-trimethylbenzene	12,262	412	412	0	0	3,1
300	Toluene	2,118,886	128,656	128,656	0	0	138,2
308	Nickel	53,709	0	0	0	0	
309	Nickel compounds	19,820	5	0	5	0	17,9
392	N-hexane	1,211	150	150	0	0	
405	Boron compounds	1,576	0	0	0	0	
411	Formaldehyde	5,463	98	98	0	0	
412	Manganese and its compounds	5,916	20	0	20	0	7
438	Methylnaphthalene	11,766	58	58	0	0	
448	Methylenebis(4,1-phenylene) diisocyanate	39,716	0	0	0	0	
	Total	4,424,298	141,624	140,731	893	0	1,894,8

Notes: • Period covered: April 1, 2016–March 31, 2017 • Operational sites covered: Sites that handle more than 1.0 ton of Class I designated chemical substances per year (or specified Class I designated chemical substances in excess of 0.5 tons per year) • The total transfer is the sum of transfers into waste and sewage systems.

Promoting the Conservation of Biodiversity

ECO-GREEN Purchasing

	5				
Fiscal Year	2012	2013	2014	2015	2016
Number of Cases	2,561	2,484	2,867	2,811	2,949

Note: ECO-GREEN is a toilet paper composed of about 50% used Cartocan paper.

Eco-creativity Activities

List of Environmentally Friendly Products (87 products as of March 2017)

Fie

siness ield	Product	Standard Categories
	Ecothrough card	Suitability for disposal
	Bulky Waste Processing Sticker	Resource saving (reduced use of materials)
	Eco Pack (life-size POP display)	Resource saving (reduced use of materials)
	Paper Desk Calendar	Use of recycled materials
	Ecology Calendar	Use of recycled materials
	Non-vinyl Chloride Lenticular Lens	Suitability for disposal
	Eco Pack Multipanel	Reusability
ç	Eco Floor Sticker	Suitability for disposal
atio	Eco Pack End Panel	Resource saving
iunio	Eco Pack Stand (round type)	Resource saving
E E	Disk Tottokun Series	Resource saving, prolonged product life, recyclability, suitability for disposal
Information & Communication	Ultra-thin DM (brochures, etc.)	Resource saving, reduced energy consumption in production, recyclability
rmatio	Eco Pack Multipanel Mini	Reusability, prolonged product life, recyclability, easy separation and disassembly Reusability, prolonged product life,
Info	Multicube POP	recyclability, easy separation and disassembly
	Green Bankbook	Recyclability, suitability for disposal Biodegradability, use of safe materials,
		resource saving, recyclability Recyclability, use of safe materials,
	KAMI-RFID CARD	resource saving, easy separation and disassembly Reduced use of chemical substances,
		reduced use of hazardous substances,
	Printed materials with environmental logos	use of recycled materials, use of sustainable resources, use of recyclable
	onwionmontanogoo	energy, carbon offsetting, labeling with environmental logos
	Flip chip ball grid array [FC-BGA] substrate (halogen free)	Suitability for disposal
S	Color filter (resin black matrix [BM])	Use of safe materials, energy saving, reduced release of chemical substances,
Electronics	Palladium pre-plated	suitability for disposal Use of safe materials, reduced release of chemical substances, suitability for
Ш	leadframe	disposal Use of safe materials, reduced release of
	Flip chip ball grid array [FC-BGA] substrate (lead free)	chemical substances, suitability for disposal
	Toppan Ecowall	Reduced release of chemical substances, use of safe materials, suitability for disposal
	TOPPAN ECO SHEET	Reduced release of chemical substances, extension of product life
	GL BARRIER (Exceptional*)	Use of sustainable resources, resource- saving efforts
	Stand-up pouch	Resource-saving efforts
	Bottled Pouch	Resource-saving efforts
	Plastic container made from recycled materials	Use of recycled materials
	TT Paper Can	Use of sustainable resources
	Ecotainer	Recycling, improvement in transport efficiency
	TL-PAK	Recycling, improvement in transport efficiency
	EP-PAK (EP-GL)	Improvement in transport efficiency, recycling
	EP-PAK (AI)	Improvement in transport efficiency
	Stand-up Laminated Tube	Resource-saving efforts
	Recyclen Cap	Recycling
ustry	AP Carton	Improvement in transport efficiency
Indi	Micro Flute	Resource-saving efforts, recycling
Living & Industry	TP-Tray Corrugated Board Cushioning Material	Recycling, use of sustainable resources Recycling
	AD-Case	Resource-saving efforts
	Cartocan (Exceptional*)	Use of sustainable resources, recycling,
		visualization of environmental burden
	GL-C Bottle	Resource-saving efforts
	Jar Plus GL FILM Lined Paper Cup	Resource-saving efforts, recycling Use of sustainable resources
	Double-wall Barrier Paper Cup	Resource-saving efforts
	Fluorine-free oil-repellent paper	Recycling
	In-mold Barrier Cup	Extension of product life, improvement in
		transport efficiency
	Easy Peel-off Thermo-label Eco Band	Recycling
	Paper carton with tamper-	Reusability Resource-saving efforts
	evident closure Clear UV-blocking Film	Use of sustainable resources
	BIOAXX (molding product)	Use of sustainable resources

017)		
usiness Field	Product	Standard Categories
	Paper cup made from pulp from forest-thinning operations	Use of sustainable resources
	Cylindrical paper-composite container for refill	Use of sustainable resources
	High-resistance Flexible	Resource-saving efforts, improvement in
	Pouch BIOAXX (label)	transport efficiency Use of sustainable resources
	Aluminum-free Lid Material	Use of sustainable resources
	Multi-layer Blow Tube	Resource-saving efforts
	Steam-release Packaging	Reduced environmental burden during use
	Air Hold Pouch	Resource-saving efforts Use of sustainable resources, resource
	BIOAXX (flexible packaging material)	saving, environmentally friendly disposal, visualization of environmental burden
	Square-bottomed Gazette Pouch	Improvement in transport efficiency, resource saving, environmentally friendly disposal
	Flexible packaging material using recycled materials	Use of recycled materials, procurement of materials with lower environmental burden, reduced energy consumption in production, environmentally friendly
	Printed Decorative Paper	disposal, visualization of environmental burden Reduced use of chemical substances,
	(Coated Paper)	reduced use of hazardous substances Use of sustainable resources, reduced use
	Printed Decorative Paper (Coated Paper FSC-certified)	of chemical substances, reduced use of hazardous substances
	Printed Decor Paper for HPL/ LPL (Saturated Grade Paper)	Reduced use of chemical substances, reduced use of hazardous substances, reduced release of chemical substances
	Printed Decor Paper for HPL/ LPL (Saturated Grade Paper FSC-certified)	Use of sustainable resources, reduced use of chemical substances, reduced use of hazardous substances, reduced release of chemical substances
	Transfer paper for padded floors	Reduced use of chemical substances, reduced use of hazardous substances, reduced release of chemical substances
	Lower-VOC wallpaper (Exceptional*)	Reduced use of chemical substances, reduced use of hazardous substances, reduced release of chemical substances
~	SnapFit	Reduced use of chemical substances, reduced use of hazardous substances, use of sustainable resources, extension of product life
	101 Coordination Floor REPREA eco (Exceptional*)	Reduced use of chemical substances, reduced use of hazardous substances, use of sustainable resources, extension of product life, labeling with environmental logos
dustr	Sosogi Jozu	Resource saving, improvement in transport efficiency, environmentally friendly disposal
-iving & Industry	Preform for PET bottles	Improvement in transport efficiency, visualization of environmental burden Reduced use of chemical substances, reduced
Ľ	FORMANO	use of hazardous substances, environmentally friendly disposal, reduced release of chemical substances, extension of product life
	FORTINA	Reduced use of chemical substances, reduced use of hazardous substances, environmentally friendly disposal, reduced release of chemical substances, extension of product life
	TOPPAN MATERIAL WOOD (Exceptional*)	Reduced use of chemical substances, reduced use of hazardous substances, use of recycled materials, environmentally friendly disposal, reduced release of chemical substances, extension of product life
	Smart Deli Bag	Reduced environmental burden during use
	Plastic UV ink container	Use of recycled materials, use of sustainable resources, improvement in transport efficiency, recycling
	Forest-certified-paper	Use of sustainable resources, labeling with
	packaging Biodegradable plastic	environmental logos Use of biodegradable materials
	products Cardboard with shrink wrap packaging	Resource saving, reduced energy consumption in production, improvement
	Emergency magnesium air battery	in transport efficiency, recycling Reduced use of chemical substances, reduced use of hazardous substances, use of sustainable resources, extension of product
	FINE FEEL (101 Materium)	life, reduced environmental burden during use, recycling, environmentally friendly disposal Reduced use of chemical substances, reduced use of hazardous substances, resource saving, extension of product life,
	EP-PAK Fold & Tear/	environmentally friendly disposal Reduced use of chemical substances, reduced use of hazardous substances, use of
	Easy Removal Cap (Exceptional*)	sustainable resources, improvement in transport efficiency, recycling, environmentally friendly disposal, labeling with environmental logos
	BIOAXX flexible packaging material (Eco Mark certified) (Exceptional*)	Reduced use of chemical substances, reduced use of hazardous substances, resource saving, use of sustainable resources, environmentally friendly disposal, visualization of environmental burden, labeling with environmental logos
	Flexible packaging material using recycled materials (Eco Mark certified) (Exceptional*)	Reduced use of chemical substances, reduced use of hazardous substances, use of recycled materials, resource saving, reduced energy consumption in production, environmentally friendly disposal, visualization of environmental burden, labeling with environmental logos
	I	*Exceptional opvironmentally friendly product

*Exceptional environmentally friendly product

Environmental Accounting

Capital Investment for Environmental Conservation (million yen)

	Item	Major Content	Fiscal 2016	Increase/ Decrease from Fiscal 2015	Average for the Last Five Years
1	Investment in equipment to prevent pollution	Investment in equipment to prevent atmospheric and other forms of pollution	1,571	413	1,109
2	Investment in equipment to conserve the global environment	Investment in equipment to conserve the global environment by mitigating global warming, etc.	1,194	-65	1,031
3	Investment in equipment to circulate resources	Investment in equipment to realize the appropriate treatment and recycling, etc. of waste	137	-94	295
4	Investment in equipment to carry out environmental management activities	Investment in equipment to monitor and measure environ- mental burden, plant trees at operational sites, and implement other environmental measures	15	8	44
Tot	al		2,918	262	2,479

Environmental Conservation Benefit

Item	Major Content	Increase/ Decrease*1	Fiscal 2016
Energy	Total energy consumption (1,000 GJ)	99	18,980
Water	Water consumption (1,000 m ³)	-735	9,226
Atmoophara	CO ₂ emission (1,000 t-CO ₂)	-15	876
Atmosphere	Emission of dioxins (mg-TEQ)	1	4
Water and	Total effluent discharge (1,000 m ³)	317	8,337
soil environments	BOD (tons)	-6	14
GIVITOITTIETIUS	COD (tons)	-3	11
Waste	Total discharge (1,000 tons)	-13	363

*1 Increases and decreases from fiscal 2015

Green Procurement and Green Purchasing

Green Procurement Standards for Paper and Level of Fulfillment

Green Principle	Level 1	Level 2	Fiscal 2016 Result*2
 Using recycled paper or paper made with fewer forest resources (excluding covers for brochures) 		Paper composed of at least 20% recycled pulp or forest-certified paper, tree-free paper, paper made with pulp from forest-thinning operations, or tissue paper	0.40%
2. Reducing component properties obstructive to waste paper recycling	Non-usage of printing materials with waste paper recyclability rankings of B, C, or D	Non-usage of printing materials with waste paper recyclability rankings of C or D	2.1%
3. Procuring from manufacturers proactively engaged in paper recycling	Procurement from manufacturers who proactively use waste paper as a raw material for recycled paper		

Note: Result under the Green Standards for Offset Printing Services (April 1, 2017 amendment) of the Japan Federation of Printing Industries (JFPI) *2 Level 1 or 2 paper used (kg) / offset paper purchased (kg)

Green Procurement Standards for Ink and Level of Fulfillment

Green Principle	Level 1	Level 2	Fiscal 2016 Result*3
1. Avoiding the use of substances harmful to the human body	Conformance with the NL regulations of the	e Japan Printing Ink Makers Association	
2. Considering chemical substances designated under the PRTR law of Japan	Non-usage of substances designated under the PRTR law	Identification of substances designated under the PRTR law (via SDSs)	
 Controlling VOC emissions (for offset ink, excluding heat-set ink for web press) 	Non-VOC ink or UV ink	Vegetable oil ink, soybean oil ink, or "ig" ink (labeling with Ink Green Mark)	97.4%
 Using sustainable resources (for heat-set ink for web press) 	Vegetable oil ink, soybean oil ink, or "ig" ink	(labeling with Ink Green Mark)	
5. Reducing component properties obstructive to waste paper recycling	Non-usage of printing materials with waste paper recyclability rankings of B, C, or D	Non-usage of printing materials with waste paper recyclability rankings of C or D	

Note: Result under the JFPI Green Standards for Offset Printing Services (April 1, 2017 amendment) *3 Level 1 or 2 ink used (kg) / offset ink purchased (kg)

In-house Green Purchasing Standards and Levels of Fulfillment

Product	Standard	Fiscal 2016 Result
Copy machines and printers	Configured to automatically revert to low-power mode or off mode	89.1%
PCs	Configured to automatically revert to low-power mode or off mode	100%
Stationery and office goods	Products listed in eco-friendly product catalogues of manufacturers	76.2%