

Building of a Recycling-oriented Society

Basic Approach

Approach

The Toppan Group has formulated the following basic policies to contribute to the building of a recycling-oriented society, an endeavor the Group positions as an important element of management. The Group processes industrial waste and waste materials in line with the following priorities.

① First priority is given to reductions of the discharge of industrial waste and waste materials generated in association with business activities.

② Second priority is given to the reuse or recycling of industrial waste and waste materials discharged in spite of the reduction efforts.

③ Third priority is given to the application of appropriate treatment methods to industrial waste and waste materials not reused or recycled.

This order of priority may not apply when another order of priority is deemed to be more effective for reducing environmental burden.

Activities

Activity results, performance data

■ Building a Recycling-oriented Society

In a drive to use limited resources more effectively, the Toppan Group works to reduce the discharge of waste, increase the recycling rate, and apply appropriate waste treatment methods based on The Toppan Group Declaration on the Global Environment.

Waste paper derived from operational sites primarily in the Information & Communication and Living & Industry fields makes up the largest portion (about 70%) of the total waste discharged at Group sites. This is followed by waste plastics from plants in the Living & Industry field and waste acid from

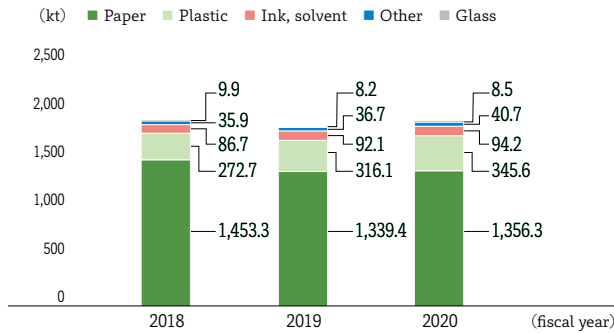
the Electronics field. The Group has striven to increase the material recycling rate by processing waste paper into recycled paper, separating waste plastics and processing composite plastics into pellets, and recycling by other methods. Waste acid, meanwhile, has been treated in-house to lower volumes for disposal. In the Group's approaches to water, a limited resource, Toppan is committed to reducing the level of water consumed and to controlling the quality of effluents discharged into water systems. The Group will continue reducing total waste discharge and promoting material recycling.

Associated Data

Activity results, performance data

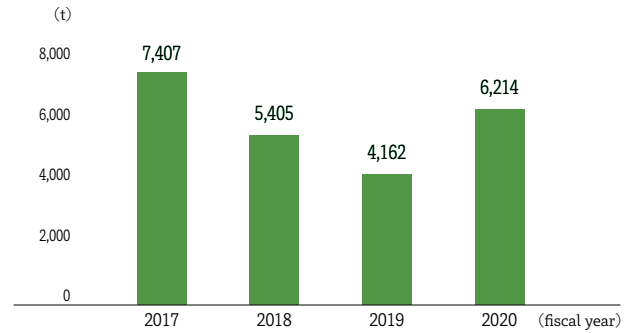
Material Input

The Toppan Group evaluates and discloses Groupwide material input, including input at overseas Group subsidiaries.



Final Landfill Waste Disposal

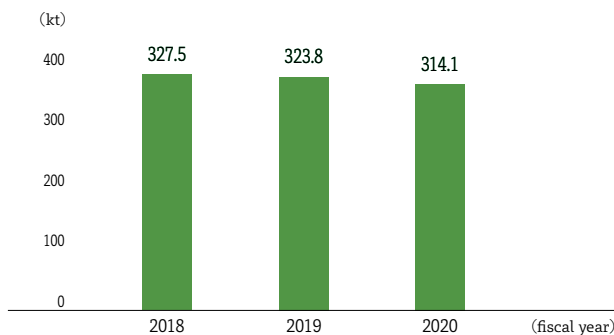
The Toppan Group evaluates and discloses Groupwide waste discharge, including discharge at overseas Group subsidiaries.



*The data for fiscal 2019 and earlier are adjusted based on revised calculation methods.

Waste Recycling

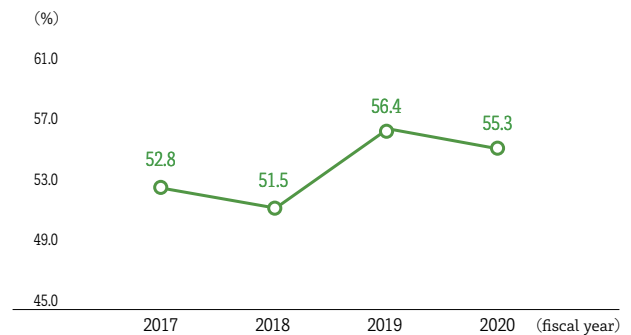
The Toppan Group evaluates and discloses Groupwide waste recycling, including recycling at overseas Group subsidiaries.



*The data for fiscal 2019 and earlier are adjusted based on revised calculation methods.

Waste Plastic Material Recycling Rate

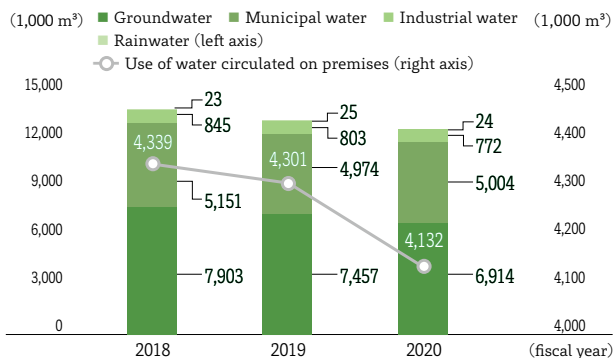
The Toppan Group evaluates and discloses Groupwide waste plastic material recycling rates, including the rates at overseas Group subsidiaries.



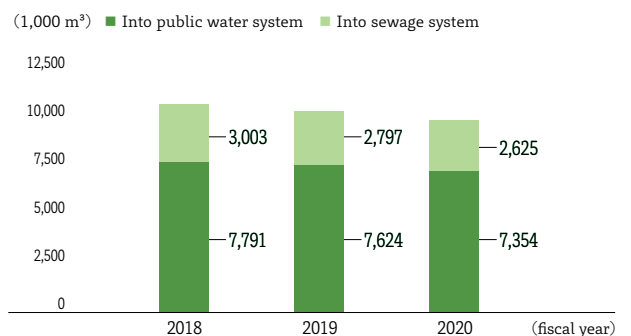
Water Consumption

The Toppan Group evaluates and discloses Groupwide water consumption, including consumption at overseas Group subsidiaries.

Water Consumption



Effluent Discharge



Zero-emission Efforts

Activity results,
performance data

- The Toppan Group 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%.
- As of July 2020, fifty-three Group sites confirmed to satisfy one of the criteria shown on the left were approved as zero-emission sites.

Zero-emission Sites (TZERO-20) (53 sites approved in July 2020)

Operational Site (Division or Group Company)	Total Waste Generation in Fiscal 2019 (t)	Waste Recycled in Fiscal 2019 (t)	Recycling Rate in Fiscal 2019 (%)	Rank
Sapporo Plant (Hokkaido Subdivision)	2,717	2,717	100.0	S
Sendai Plant (Higashinihon Division)	4,575	4,570	99.8	S
Itabashi Site	3,350	3,329	99.3	A+
Asaka Plant [Commercial Printing, Publications Printing] (Toppan Communication Products Co., Ltd.)	1,732	1,728	99.9	S
Asaka Securities Printing Plant (Toppan Communication Products Co., Ltd.)	3,802	3,802		
Kawaguchi Plant (Toppan Communication Products Co., Ltd.)	30,299	30,299	100.0	S
Sakado Plant (Toppan Communication Products Co., Ltd.)	19,815	19,815	100.0	S
Ranzan Plant (Toppan Communication Products Co., Ltd.)	742	742	100.0	S
Nagoya Plant (Chubu Division)	5,864	5,848	99.7	S
Takino Plant (Toppan Communication Products Co., Ltd.)	9,169	9,070	98.9	A
Takino Securities Printing Plant (Toppan Communication Products Co., Ltd.)	1,026	1,020	99.4	A+
Fukuoka Plant (Toppan Communication Products Co., Ltd.)	5,065	5,065	100.0	S
Fukuyama Plant (Toppan Communication Products Co., Ltd.)	1,840	1,818	98.8	A
Chitose Plant (Toppan Packaging Products Co., Ltd.)	3,440	3,382	98.2	A
Gunma Central Plant (Toppan Packaging Products Co., Ltd.)	11,457	11,438	99.8	S
Sagamihara Plant (Toppan Packaging Products Co., Ltd.)	16,477	16,477	100.0	S
Matsusaka Plant (Toppan Packaging Products Co., Ltd.)	3,088	3,060	99.0	A+
Takino Plant [liquids] (Toppan Packaging Products Co., Ltd.)	4,701	4,701	100.0	S
Takino Plant [folding cartons] (Toppan Packaging Products Co., Ltd.)	6,291	6,291		
Fukusaki Plant (Toppan Plastic Co., Ltd.)	606	606	100.0	S
Fukuoka Plant (Toppan Packaging Products Co., Ltd.)	6,121	6,121	100.0	S
Miyata Plant (Toppan Packaging Service Co., Ltd.)	458	458	100.0	S
Mikkabi Plant (Toppan Packaging Products Co., Ltd.)	2,998	2,998	100.0	S
Tamana Plant (Toppan Packaging Products Co., Ltd.)	4,905	4,905	100.0	S
Satte Plant (Toppan Plastic Co., Ltd.)	679	670	98.7	A
Saga Plant (Toppan Plastic Co., Ltd.)	230	230	100.0	S
Ranzan Plant (Toppan Packaging Service Co., Ltd.)	972	972	100.0	S
Sodegaura Beverage Plant (Toppan Packaging Service Co., Ltd.)	1,573	1,573	100.0	S
Amagi Plant (Toppan Packaging Service Co., Ltd.)	320	320	100.0	S
Mito Plant (Toppan Prosprint Co., Ltd.)	4,722	4,720	99.9	S
Kansai Bottling Co., Ltd.	58	58	99.2	A+
Harima Plant (Toppan Plastic Co., Ltd.)	935	935	100.0	S
Satte Plant (Toppan Packaging Products Co., Ltd.)	386	386	100.0	S
Fukaya Plant (Toppan Packaging Products Co., Ltd.)	2,287	2,280	99.6	S
Kashiwa Plant (Toppan Decor Products Inc.)	341	338	99.2	A+
Satte Plant (Toppan Decor Products Inc.)	6,374	6,374	100.0	S
Asaka Plant (Toppan Electronics Products Co., Ltd.)	64	64	100.0	S
Shiga Plant (Toppan Electronics Products Co., Ltd.)	70	70		
Shiga Plant (Toppan TOMOEGAWA Optical Films Co., Ltd.)	755	754	99.9	S
Mie Plant [Kameyama] (Toppan Electronics Products Co., Ltd.)	3,146	3,146	100.0	S
Mie Plant [Hisai] (Toppan Electronics Products Co., Ltd.)	3,504	3,504	100.0	S
Niigata Plant (Toppan Electronics Products Co., Ltd.)	5,476	5,476	100.0	S
Kumamoto Plant (Toppan Electronics Products Co., Ltd.)	6,521	6,521	100.0	S
Hino Office (Ortus Subdivision)	12	12	100.0	S
Kochi Plant (Toppan Electronics Products Co., Ltd.)	1,086	1,072	98.7	A
Toppan Technical Research Institute	449	443	98.7	A
Ebie Site (Kansai Subdivision)	469	464	98.8	A
Sagamihara Plant (Toppan Infomedia Co., Ltd.)	332	332	100.0	S
Takino Plant (Toppan Infomedia Co., Ltd.)	416	416	99.9	S
Fukushima Plant (Toppan Infomedia Co., Ltd.)	1,560	1,559	99.9	S
Gunma Plant (Tamapoly Co., Ltd.)	2,809	2,761	98.2	A
Sanda Plant (Tamapoly Co., Ltd.)	2,669	2,668	99.9	S
Tochigi Plant (Tamapoly Co., Ltd.)	2,072	2,072	100.0	S
Saitama Plant (Livretch Co., Ltd.)	6,143	6,119	99.6	S
Hino Plant (Toppan Media Printech Tokyo Co., Ltd.)	505	505	100.0	S
Zama Plant (Toppan Media Printech Tokyo Co., Ltd.)	263	262	99.8	S

Notes

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- Group sites confirmed to satisfy one of the above criteria were approved as zero-emission sites in July 2020.