TOSHIBA

TOSHIBA TEC Singapore Pte. Ltd. Site Report Information

Address: 2 Ang Mo Kio Street 62 Singapore 569138

Lot area: 15,011 m^2, Building area: 8,019 m^2, Green ratio: 5.0 %

Establishment: Dec, 1988, Employees:307 (as of March 2024)

Major products: POS Products, Barcode Printers, Multi functional Peripherals, Dot Matrix Printers, Self-Service Kiosks and Gaming.

ISO 14001 certified: April, 1998, Latest update: 16 May 2024
(ISO 14001:2015 Certificate number: 787805)

Message from Environmental Preservation Chief

Toshiba TEC Singapore (TSE) harmonized environmental management system with business activities, products and services, with respect to the reduction of environmental impacts, response to climate change, sustainable consumption and production, and conservation of biodiversity. We promote environmental awareness for sustainable tomorrow.

Environmental Preservation Chief
Jasmine Goh

Major environmental activities in 2023

Reduction in CO2 emissions
- Replace numbers of old physical servers with virtual servers.
- Replace LED lighting at office and production.
- Running change to replace spoil desktop PC to laptop.
- Shut down air-conditioner and lighting when production transfer to TIE.
- Promotion for energy reduction to employees through poster.

Total CO2 emission reduction of 4% compared to FY2022.

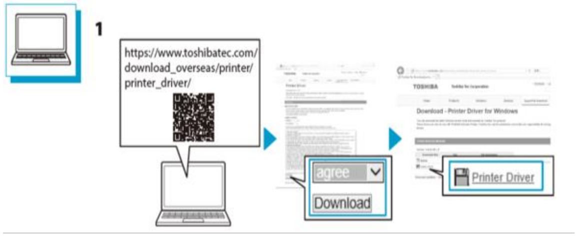
Reduction in water
- Water awareness promotion

Reduction in waste
- 3R awareness promotion
- Give away good wooden pallet to vendors and forwarders.

Biodiversity
- Bird and Butterfly Survey
- Plant bird and butterfly attracting species and edible plant in company.

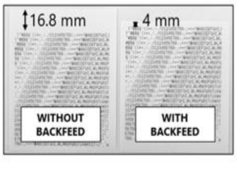
Development of products and environmental technologies, Environmental consideration point

Barcode Printer



- CD-ROM is used to install driver for Barcode printer previously.
- As a measure to reduce CD-ROM waste, implemented QR code to link user to driver installation webpage.
- Eliminate the use of raw material of 0.02kg per unit.
- Reduce waste generation of 0.02kg per unit.

POS Printer



- Paper receipt length reduce from 16.8mm to 4mm after implement backfeed.
- Reduce the amount of energy required during paper processing stage.
- Paper saving by 23.8%

TOSHIBA

TOSHIBA TEC SINGAPORE PTE LTD

Integrated Management System Policy

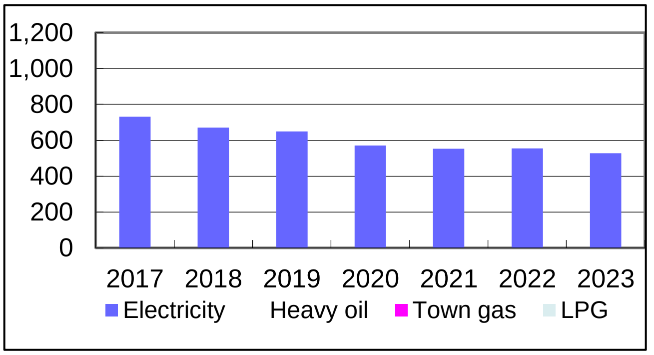
We shall integrate Quality, Environmental, Health & Safety considerations in our business decision making to enhance customer satisfaction, manage environmental impact, provide safe and healthy workplaces to prevent injury & ill health and safety hazards, such information are readily available to interested parties. We strive to continually improve our management system with the following commitments:

1. We create quality products and services with pride and passion, keeping our customers in mind all the time and everywhere.
2. We respect each and individual employee, develop one's abilities and together we foster an open and healthy corporate culture and we tirelessly seek new challenges.
3. We fulfill our responsibilities toward each country and community in which we operate, we respect the local culture and history, and we comply with the statutory and regulatory requirements.
4. We improve and maintain a healthy and safe work environment through proper safe work procedures, managing hazards and implementing risk controls, these includes consultation, participation and feedback from employees.
5. We harmonized environmental management system with business activities, products and services, with respect to the reduction of environmental impacts, response to the climate change, sustainable consumption and production, and conservation of biodiversity.
6. We take the necessary information security measures to prevent information leakage.
7. We strive to maximize our corporate value to achieve appropriate profits and reserves to meet the expectations of our stakeholders through implementing management innovation and investing in research and development.

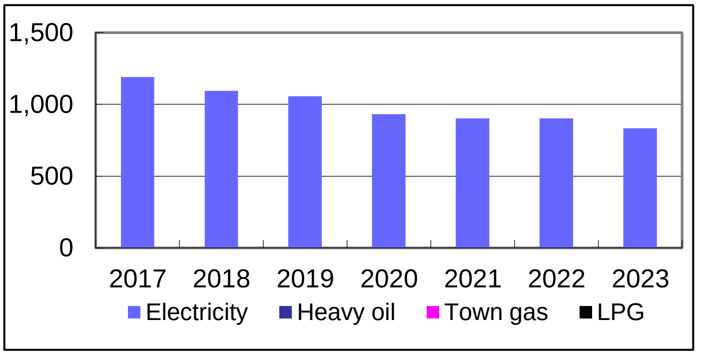
Yasutoshi Serizawa
President & Chief Executive Officer
1st January 2022

Environmental load data

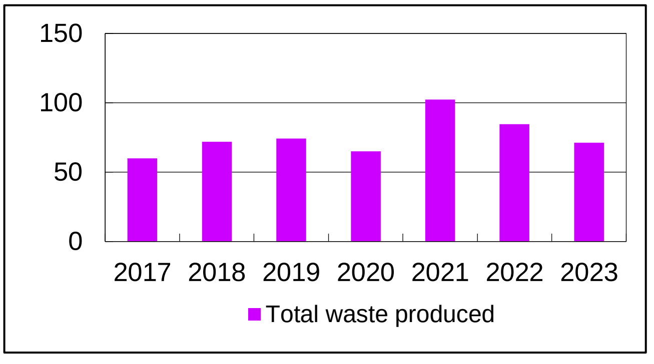
Energy usage (unit: KL)



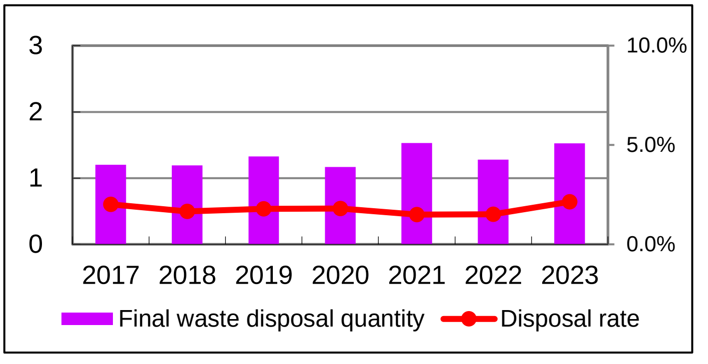
CO_2 emission (unit: ton-CO_2)



Total waste produced (unit: ton)

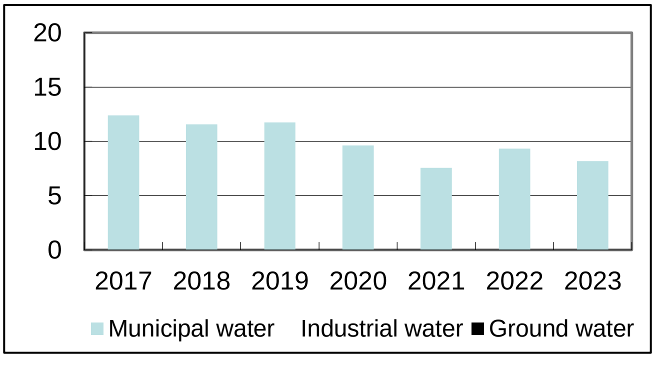


Final waste disposal quantity & disposal rate (unit: ton,%)

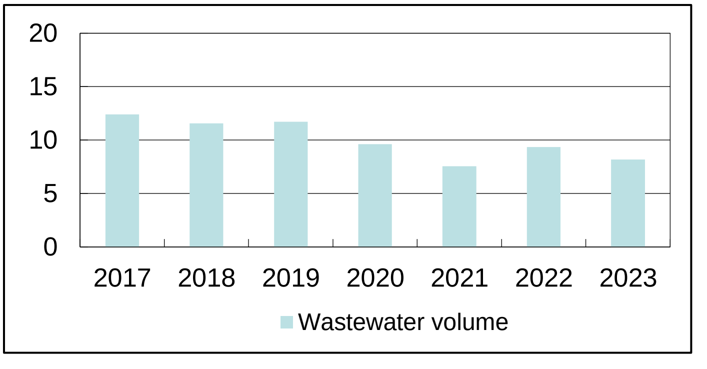


Major wastes: Paper, Plastic, etc.

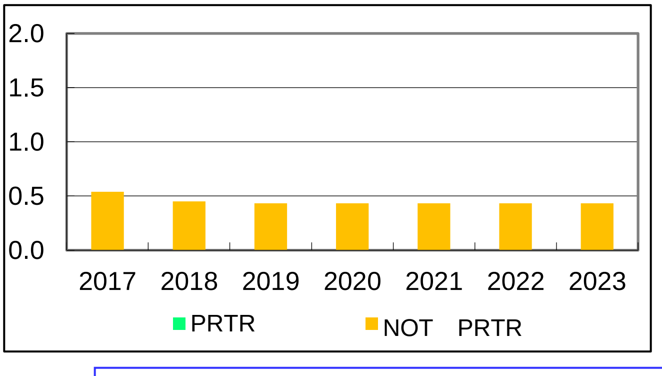
Water usage (unit: 1,000m^3)



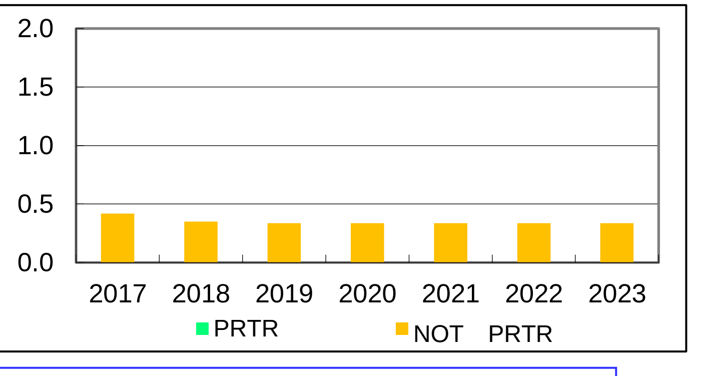
Wastewater volume (unit: 1,000m^3)



Handing substances (unit: ton)



Substances volatilized and released to water (unit: ton)



Major chemical substances: Isopropanol, etc.

Compliance management

Atmospheric measurement results (multi-pipe small-type through flow boiler (city gas): X units)

	Regulation value	Self-control value	Actual measurement	Measurement frequency
NOx (ppm)	Not Applicable	Not Applicable	Not Applicable	Not Applicable
SOx (Nm3/h)	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Soot & dust (mg/Nm3)	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Wastewater measurement results (major results) (Facility, IC at Guard house and IC near Bin Centre): Wastewater is discharged to drainage)

	Regulation value	Self-control value	Actual measurement	Measurement frequency
Hydrogen ion concentration (pH)	6-9	6.5 – 9.0	8.4	Once/2 years
BOD (mg/l)	400	350	66	Once/2 years
COD (mg/l)	600	500	211	Once/2 years
SS (mg/l)	400	300	93	Once/2 years
Nitrogen (mg/l)	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Fluorine (mg/l)	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Noise & vibration measurement results (Boundary noise)

	Location: Time	Regulation value	Self-control value	Actual measurement	Measurement frequency
Noise (dB)	Lot boundary: Day	75	72	64	Once/3 years
	Lot boundary: Night	65	62	58	Once/3 years
Vibration (dB)	Lot boundary: Day	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Lot boundary: Night	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Other measurement results (Sewage Water Law: Major results)

	Regulation value	Self-control value	Actual measurement	Measurement frequency
Hydrogen ion concentration (pH)	6-9	6.5 - 9	8.4	Once/2 years
BOD (mg/l)	400	350	66	Once/2 years
SS (mg/l)	400	300	93	Once/2 years

Environmental accidents, administrative advices and complaints

	State
Environmental accident	None
Environmental problem around the factory and in the local area	None
Administrative advice or direction	None
Complaint from neighboring residents	None

Environmental communication

<Waterway Clean-Up at Kallang with Toshiba Group of Companies in Singapore>

Waterway clean-up activity at Kallang river was carried out successfully in collaboration with the Waterways Watch Society (WWS) and the involvement of Toshiba Group of Companies employees as Volunteers. Volunteers are joining the reflection session after waste collection to reflect about the marine pollution and our responsibility towards nature.

Date : 13th Dec 2023

A total of 28 volunteers from Toshiba groups companies in Singapore were participated in this clean-up and collectively removed 56kg of trash from waterways.

<On-Going E-Waste Recycling Campaign>

In conjunction with the government's initiative to manage end-of-life for ICT equipment, we have worked with our Toshiba's approved e-waste vendor to design and distribute E-waste recycling bin at TSE and our customer premises in Singapore as an effort to reduce and recycle E-waste. Recycling fund collected is contributed to Toshiba Carbon Balance Fund for "Plant-A-Tree programme".

Started Date : 17 Aug 2023

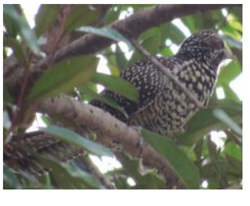
E-waste was collected and sent to Toshiba's approved e-waste vendor for disposal.

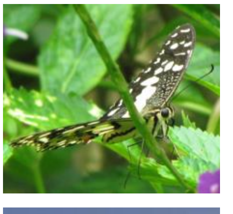
Conservation of Biodiversity

<Bird and Butterfly Survey>

Half-yearly, we conducted butterfly and bird surveys at neighbouring Bishan-Ang Mo Kio Park. The data collected from this survey are submitted to National Parks Board to help understand common species residing at the parks and this contributed to rehabilitation efforts of Singapore.

A total of 15 butterfly species and 14 bird species spotted.





< Plant Bird & Butterfly Attracting and Edible Plant >

Family Name : Fabaceae (Legumunosae)
Common Name : Butterfly Pea, Blue Pea, 蝶豆, 蝴蝶花豆
Cooking Method: Boil butterfly pea with dried lemongrass/ honey/ lemon in water 5-10 minutes.
Health Benefit : Reduces inflammation and oxidative stress, promote health sleep, weight loss, skin health, heart health, blood sugar regulation

Environmental targets

The main Environmental targets for FY2024.

Item	Indicator	Target for FY2024
Global warming prevention	Reduction in the CO_2 emissions FY2005	65% reduction
Optimization of resources	In the ratio of total amount of waste generated to output relative to FY2005	74% reduction
Control of Chemical Substances	Reduction in the quantity of the toxic chemical FY2005	86% reduction

Environmental objectives

The main Environmental objectives for FY2026.

Item	Indicator	Objective for FY2026
Global warming prevention	Reduction in the CO_2 emissions FY2005	66% reduction
Optimization of resources	In the ratio of total amount of waste generated to output relative to FY2005	74% reduction
Control of Chemical Substances	Reduction in the quantity of the toxic chemical FY2005	86% reduction