

TOSHIBA TEC Singapore Pte. Ltd. Site Report Information

Address: 2 Ang Mo Kio Street 62 Singapore 569138

Lot area: 15,011 m², Building area: 8,019 m², Green ratio: 5.0 %

Establishment: Dec, 1988, Employees:320 (as of March 2023)

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

ISO 14001 certified: April, 1998, Latest update: 11 Apr 2023
(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 2022

Reduction in CO2 emissions

- Replace LED lighting at office and production.
 - Install solar panel for energy supply.
 - Running change to replace spoil desktop PC to laptop.
 - Promotion for energy reduction to employees through poster.
- Total CO2 emission reduction of 1% compared to FY2021.

Reduction in water

- Water awareness promotion

Reduction in waste

- 3R awareness promotion
- Reuse supplier packaging material.
- Give away good wooden pallet to vendors and forwarders.

Biodiversity

- Butterfly watch Seasonality Survey
- Bird and Butterfly Survey
- Plant bird and butterfly attracting species in company.
- Planted medicinal usage plant.

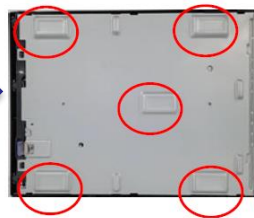
Development of products and environmental technologies, Environmental consideration point

POS Terminal

Before



After



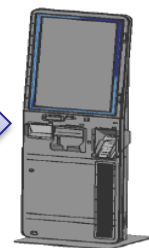
- 100% removal of rubber foot which make from Polyurethane and Carbon Black.
- Reduce Carbon Black's warming effect on the climate.
- Avoid inhalation of Carbon Black as it is associated with health problems.

Kiosk

Before



After



- Size and weight of kiosk reduced by approx. 51% and 25% .
- Smaller and lighter devices reduce carbon footprint.
- Reduce material consumption as having smaller product size.

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.

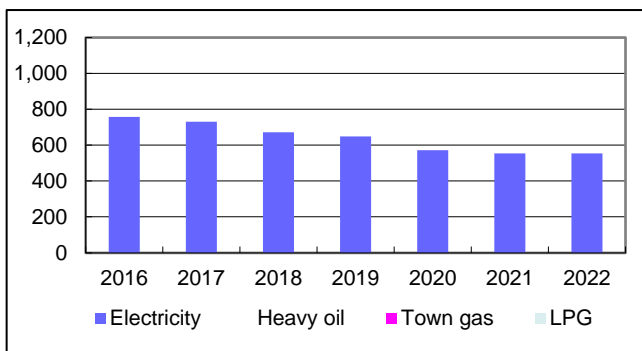
Yasutoshi Serizawa

President & Chief Executive Officer

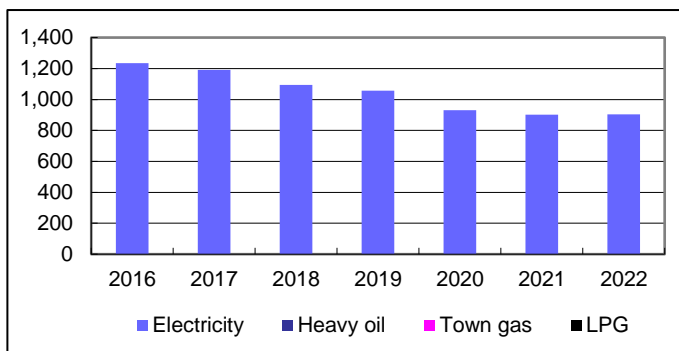
1st January 2022

Environmental load data

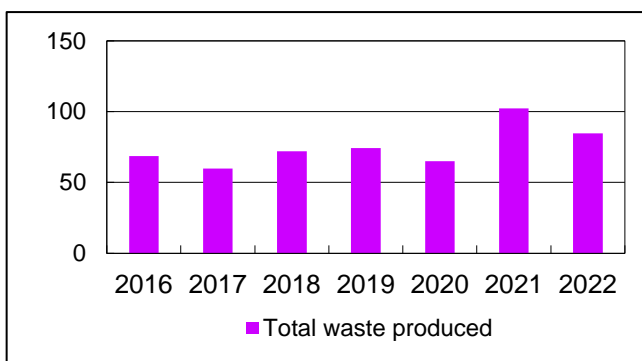
Energy usage (unit: KL)



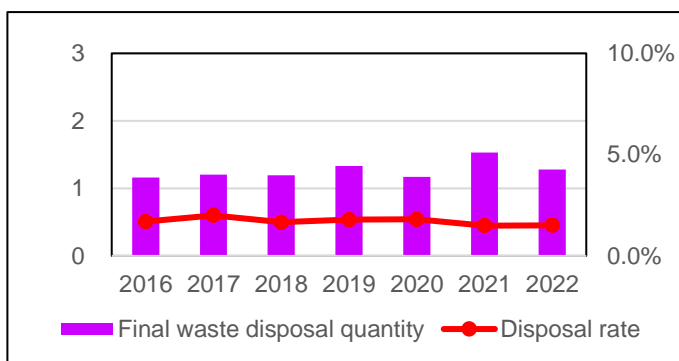
CO₂ emission (unit: ton-CO₂)



Total waste produced (unit: ton)

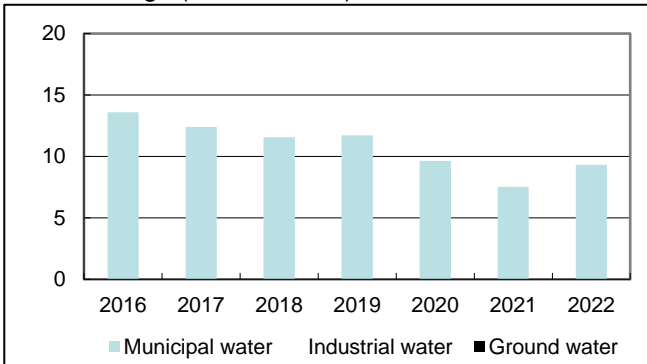


Final waste disposal quantity & disposal rate (unit: ton,%)

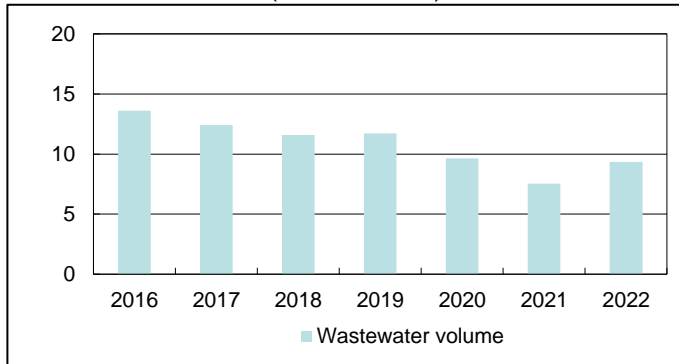


Major wastes: Paper, Plastic, etc.

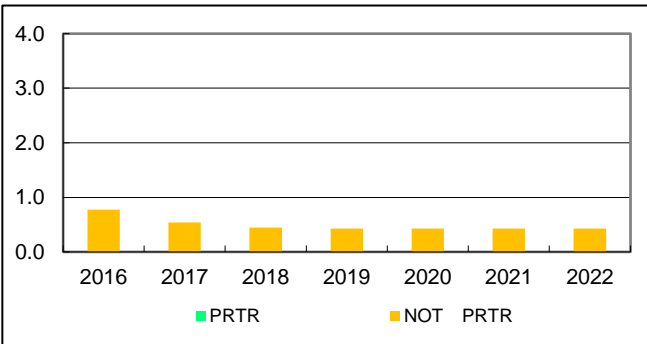
Water usage (unit: 1,000m³)



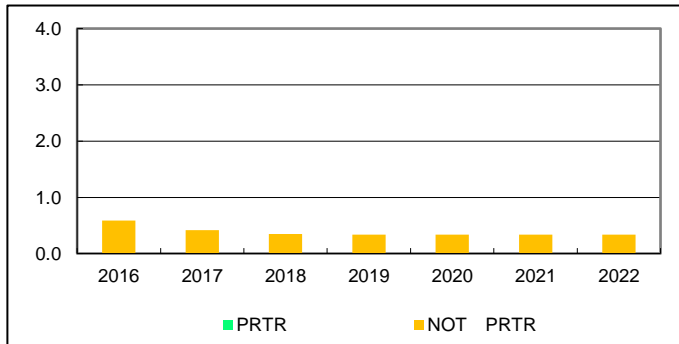
Wastewater volume (unit: 1,000m³)



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

<Emergency Response Drill: Chemical Spillage Training 2022>

We conducted chemical spill drill annually. Chemical spill team were taught on the procedure of wearing Personal Protective Equipment to protect themselves before cleaning up potential chemical spills, as well as procedure of clearing up spills properly.

Date : 08 Feb 2023

A total of 12 participants were joined chemical spill drill in front of 1st floor machine room.



<Annual E-Waste Recycling week>

In conjunction with the government's initiative to manage end-of-life for ICT equipment, we have been actively holding annual "E-waste Recycling Week" to promote the recycling of electronic equipment used at home and at work, including computer monitors and laptop. Recycling fund collected is contributed to Toshiba Carbon Balance Fund for "Plant-A-Tree programme".

Date : 20 Oct 2022

A total of 826kg of 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 13 butterfly species and 10 bird species spotted.

< Butterfly Watch Seasonality Survey >

Besides, we joined seasonality survey initiated by National Parks Board to study butterfly phenology monthly. Regular monitoring would help to study the seasonal variations in the abundance of butterflies and understanding the conditions which cause these variations.

A total of 20 butterfly species spotted at AMK-Bishan Park.



< Plant Bird & Butterfly Attracting and Medicinal Plant >

Family Name : Melastomataceae
 Common Name : Common Sendudok, Singapore/ Indian Rhododendron
 Medicinal Uses : The Shoots and roots are used to treat stomachache and diarrhea. The roots and leaves are applied externally to wounds and haemorrhoids to hasten recovery)
 Local Conservation Status : Native to Singapore



Environmental targets

The main Environmental targets for FY2023.

Item	Indicator	Target for FY2023
Global warming prevention	Reduction in the CO2 emissions FY2005	64% reduction
Optimization of resources	In the ratio of total amount of waste generated to output relative to FY2005	63% reduction
Control of Chemical Substances	Reduction in the quantity of the toxic chemical FY2005	83% reduction

Environmental objectives

The main Environmental objectives for FY2025.

Item	Indicator	Objective for FY2025
Global warming prevention	Reduction in the CO2 emissions FY2005	67% reduction
Optimization of resources	In the ratio of total amount of waste generated to output relative to FY2005	69% reduction
Control of Chemical Substances	Reduction in the quantity of the toxic chemical FY2005	84% reduction