

## TOSHIBA TEC Singapore Pte. Ltd. Site Report Information

Address: 2 Ang Mo Kio Street 62 Singapore 569138

Lot area: 15,011 m<sup>2</sup>, Building area: 8,019 m<sup>2</sup>, Green ratio: 5.0 %

Establishment: Dec, 1988, Employees:337 (as of March 2022)

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

ISO 14001 certified: April, 1998, Latest update: 20 Apr 2022  
(ISO 14001:2015 Certificate number: 2020-0804)



## 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 2021

### Reduction in CO2 emissions

- Replace LED lighting at production area.
- Reduce office air-conditioner operation timing for 30 min in view of lesser headcount work in office.
- Shut down central air-conditioner and lighting during COVID-19 as lesser workforce work at company.
- Promotion for energy reduction to employees through poster.

### Reduction in water

- Water awareness promotion

### Reduction in waste

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

### Biodiversity

- Tree Planting at Changi Beach Park
- Butterfly watch Seasonality Survey
- Half yearly Bird and Butterfly Survey
- Plant endangered native species in company.
- Plant butterfly attracting species in company.

## Development of products and environmental technologies, Environmental consideration point

### Barcode Printer



#### < Reduction of Test Media Quantity >

- Optimize production test tool and inspection flow by remove duplicated test.
- Test media paper usage reduction by 72%.

### Statement Thermal Printer



#### <Eliminated Polymer Material by Using Corrugated Fiber Board >

- No polymer material in packaging.
- Corrugated board are biodegradable and recyclable.

# 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.

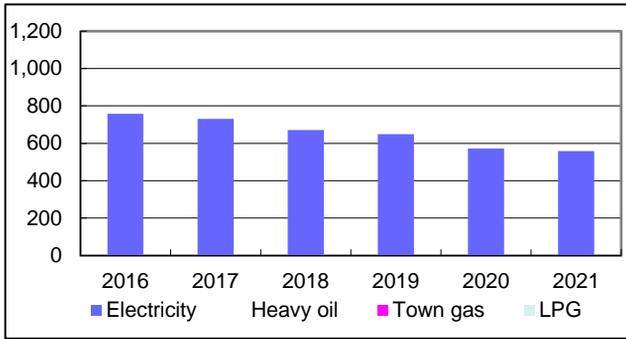
**Yasutoshi Serizawa**

President & Chief Executive Officer

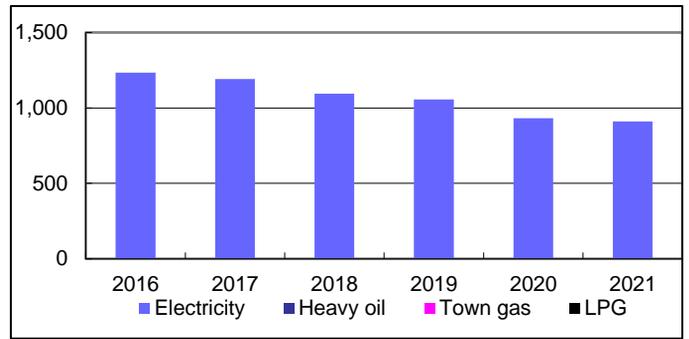
1<sup>st</sup> January 2022

## Environmental load data

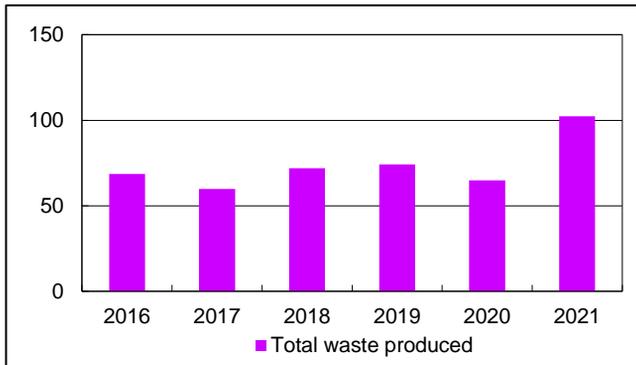
Energy usage (unit: KL)



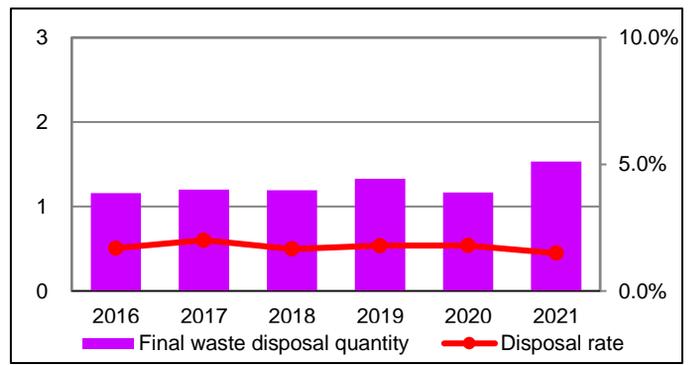
CO<sub>2</sub> emission (unit: ton-CO<sub>2</sub>)



Total waste produced (unit: ton)

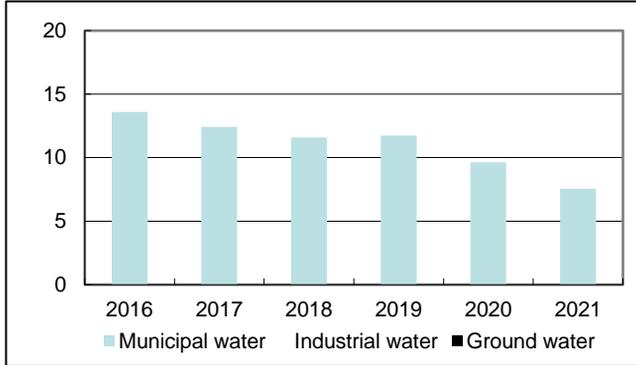


Final waste disposal quantity & disposal rate (unit: ton,%)

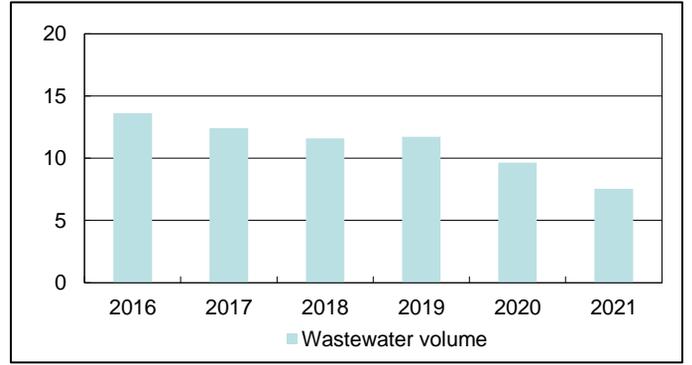


Major wastes: Paper, Plastic, etc.

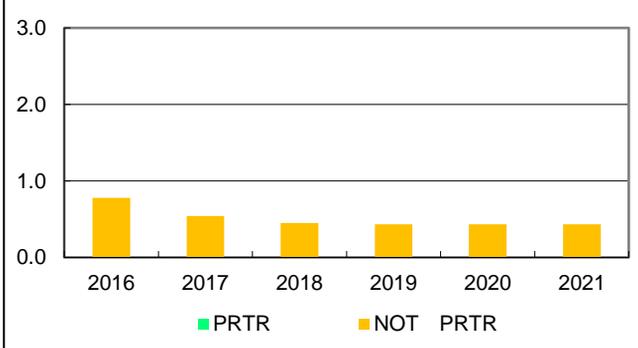
Water usage (unit: 1,000m<sup>3</sup>)



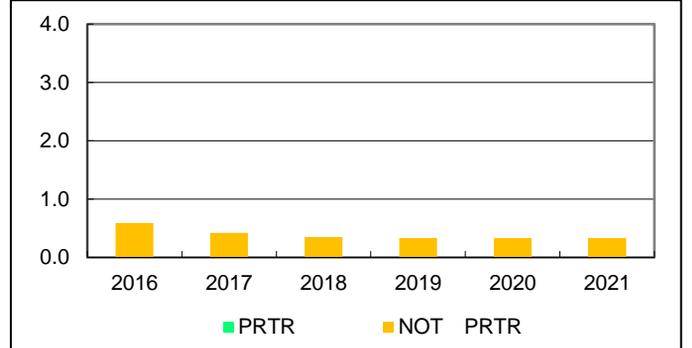
Wastewater volume (unit: 1,000m<sup>3</sup>)



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	8.1	Once/2 years
BOD (mg/l)	400	350	66.75	Once/2 years
COD (mg/l)	600	500	215	Once/2 years
SS (mg/l)	400	300	37.25	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	57	Once/3 years
	Lot boundary: Night	65	62	54.6	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	8.1	Once/2 years
BOD (mg/l)	400	350	66.75	Once/2 years
SS (mg/l)	400	300	37.25	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

### <Emergency Response Drill: Chemical Spillage Training 2021>

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 : 15 Dec 2021

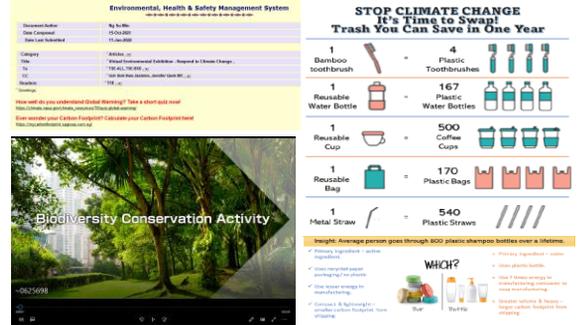
A total of 12 participants were joined chemical spill drill at 4<sup>th</sup> floor PCBA production line.



### <Virtual Environmental Exhibition Through Poster and Video>

We shared environmental promotion poster, saving tips and video through the virtual environmental exhibition in order to raise employee's awareness on impact of climate change issues and adaption measures. Besides, we prepared quiz link for employees to understand and reconsider global warming issue and carbon footprint generated.

Date : 11 Jan 2022



## Conservation of Biodiversity

### <Bird and Butterfly Survey>

Half-yearly, we conducted butterfly and bird surveys at neighbouring Ang Mo Kio Town Garden East and West. 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 10 butterfly species and 8 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 19 butterfly species spotted at AMK-Bishan Park.



### < Plant Butterfly Attracting Plant >

Family Name : Rubiaceae  
Common Name : Todong Periuk, Bunga Siantan  
Local Conservation Status : Native to Singapore



### < Tree Planting at Changi Beach Park>

Plant-A-Tree program was in collaboration with National Parks Board and Garden City fund at Changi Beach Park. A total of 11 endangered native tree species planted along the park. The name of species planted are Memecylon Ovatum and Ardisia Elliptica (both native endangered species) and Tristaniopsis obovate, (Critically Endangered species).

Date : 18 December 2021

A total of 33 volunteers from Toshiba and e-waste partners (18 companies) took part in this year Plant-A-Tree program.



## Environmental targets

The main Environmental targets for FY2022.

Item	Indicator	Target for FY2022
Global warming prevention	In the ratio of CO2 emissions to net output relative to FY2005	65% reduction
Optimization of resources	In the ratio of total amount of waste generated to output relative to FY2005	79% reduction
Control of Chemical Substances	Reduction in the quantity of the toxic chemical FY2005	83% reduction

## Environmental objectives

The main Environmental objectives for FY2024.

Item	Indicator	Objective for FY2024
Global warming prevention	In the ratio of CO2 emissions to net output relative to FY2005	58% reduction
Optimization of resources	In the ratio of total amount of waste generated to output relative to FY2005	76% reduction
Control of Chemical Substances	Reduction in the quantity of the toxic chemical FY2005	83% reduction