



TOSHIBA TEC Singapore Pte. Ltd. Site Report Information

Address: 2 Ang Mo Kio Street 62 Singapore 569138

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

Establishment: Dec, 1988, Employees: 385 (as of March 2018)

Major products: Printers, POS related products and Self-service equipment

ISO 14001 certified: April, 1998, Latest update: 9 May 2018
(ISO 14001:2015 Certificate number: EMS 653786)



Message from Environmental Preservation Chief

Toshiba's TEC Singapore (TSE) business activities are design, development and manufacture of printers (including media handling and printing mechanism), terminals (payment, point of sale), self-service equipment, information processing equipment and printed circuit board & turnkey assemblies.



Environmental Preservation Chief
Jasmine Goh

Major environmental activities in 2017

Reduction in CO2 emissions

- Replace old conventional air-conditioner with inverter type.
 - Reduce number of old server with virtual server.
- Reduction of CO2 (energy) emissions by 1.4% per year.

Reduction in wastes

Reduce final waste disposal amount with the following projects:

- 3R awareness promotion
 - Replace wooden pallet by trolley
 - Give out wooden pallet to charity organization for carpentry activities.
- Reduction of total waste emission by 1% per year.

Corporate Social Responsibility

- River Clean-up with Waterway Watch Society

Biodiversity Activities

- Bird and Butterfly watch alternate month

Development of products and environmental technologies, Environmental consideration point

Excellent ECP Certified Product

B-EX6T



<Energy saving>

- Lowest power in sleep mode

<Resource saving>

- Highest resource savings through TOSHIBA TEC's unique ribbon save function

B-FP3D



<Energy saving>

- Highest energy savings in standby power

<Resource saving>

- Highest resource savings in the mass and volume of the main unit

TOSHIBA TEC SINGAPORE PTE LTD

Quality, Environment, Health and Safety Policy

We shall integrate Quality, Environmental, Health & Safety considerations in our business decision making to enhance customer satisfaction, manage environmental impact, prevent injury & ill health and safety hazard. We strive to continually improve our management system with the following commitments:

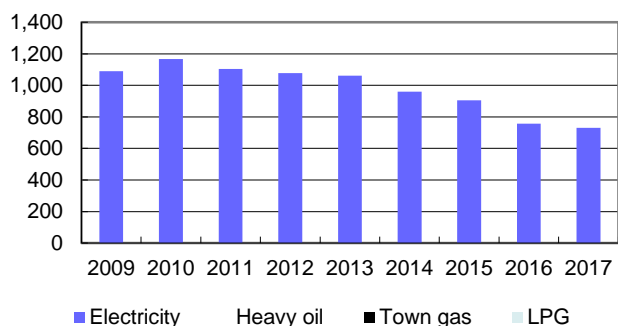
1. “Monozukuri*” – We create quality products and services with pride and passion, keeping our customers in mind all the time and everywhere.
2. We respect each and individual employee, develop one’s abilities and together we foster an open and healthy corporate culture and we tirelessly seek new challenges.
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.
5. We put concerns for the environment as a priority in our business activities, with respect to the prevention of environmental pollution, use of sustainable resources, mitigation of climate change, adaptation to climate change 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.

*“Monozukuri” is the ongoing process of creating new values realized in quality products and services that exceed customer expectations by applying superior proprietary technology and knowledge nurtured over long years.

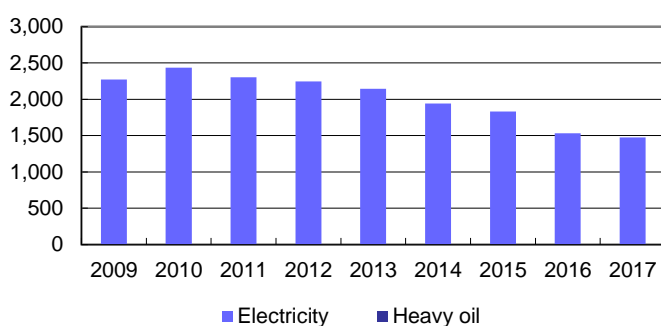
Tetsu Oda
President & Chief Executive Officer
5th Mar 2018

Environmental load data

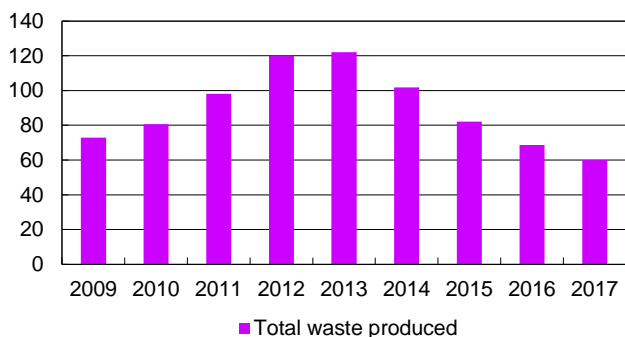
Energy usage (unit: KL)



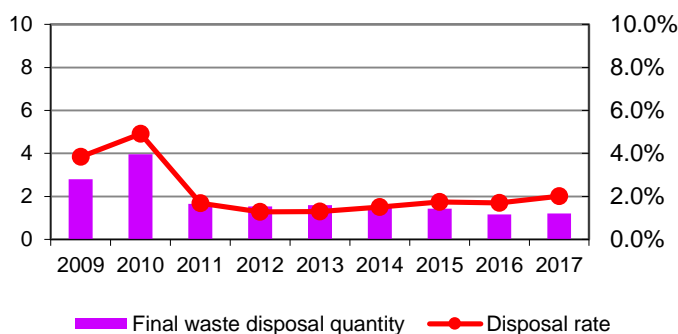
CO₂ emission (unit: ton-CO₂)



Total waste produced (unit: ton)

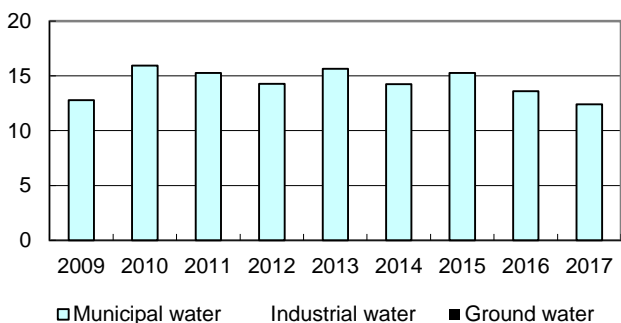


Final waste disposal quantity & disposal rate (unit: ton,%)

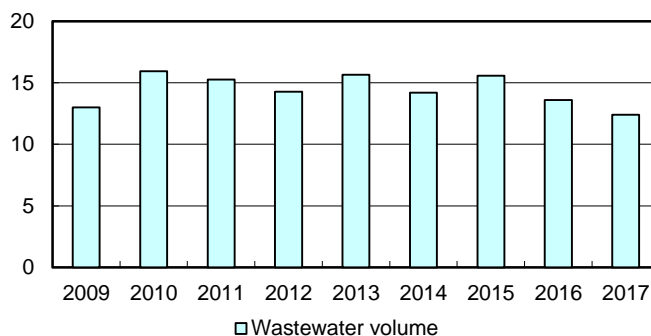


Major wastes: Paper, Plastic, etc.

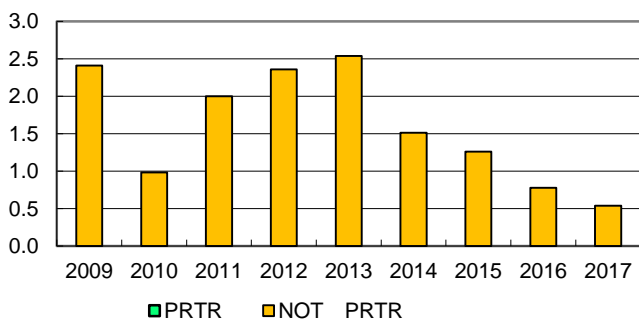
Water usage (unit: 1,000m³)



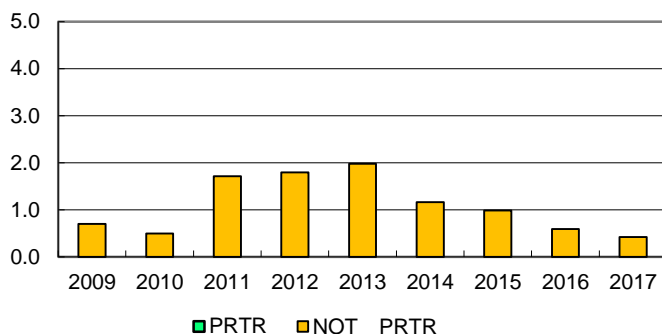
Wastewater volume (unit: 1,000m³)



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	7.9	Once/2 years
BOD (mg/l)	400	350	41	Once/2 years
COD (mg/l)	600	500	58	Once/2 years
SS (mg/l)	400	300	83	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	58.1	Once/3 years
	Lot boundary: Night	65	62	56.9	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	6.5-8.5	7.9	Once/2 years
BOD (mg/l)	400	350	41	Once/2 years
SS (mg/l)	400	300	83	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

<Annual Workplace E-waste Recycling Week>

In conjunction with the government's initiative to manage end-of-life for ICT equipment, TSE has 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.

Date: 1 Aug to 4 Aug 2017

A total of 1184 kg of e-waste was collected and sent to Toshiba's approved e-waste vendor for disposal.



<Toshiba Group Clean-up Day In Collaboration with Waterway Watch Society>

Organised by Waterways Watch Society – an NGO organization formed to monitor and contribute to the cleanliness of the Singapore River & Kallang River. Toshiba employees were introduced to the challenges that Singapore faces on developing a diversified and sustainable water supply and to bring up awareness of the importance of clean water. Toshiba group of companies in Singapore formed a group of 40 participants to pick up litter along the pavements and waterways from Kallang river, Esplanade and to end of Singapore river.

Date: 21-April-2017

Number of people participated: 40 (7 employees from TSE and 33 from Toshiba Group)

A total of about 75 kg of litter was collected.



Conservation of Biodiversity

<Bird and Butterfly Survey at Ang Mo Kio East and West Garden >

Quarterly, we conducted butterfly and bird surveys at neighbouring Ang Mo Kio Town Garden East and West started. The data collected from the bird and butterfly survey help us to understand common species residing at the park and contributed to rehabilitation efforts.

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



Scarlet-backed
Flowerpecker



Short Banded Sailor

<Biodiversity Exhibition>

We had organized biodiversity exhibition at our cafeteria in environmental month. We made our own video clip and shared with employees during their lunch time.

Date: 19 Jun to 22 Jun 2017



Environmental targets

The main Environmental targets for FY2018.

Item	Indicator	Target for FY2018
Global warming prevention	In the ratio of CO2 emissions to net output relative to FY2005	41% reduction
Optimization of resources	In the ratio of total amount of waste generated to output relative to FY2005	38% reduction
Control of Chemical Substances	Reduction in the quantity of the toxic chemical FY2005	77% reduction

Environmental objectives

The main Environmental objectives for FY2020.

Item	Indicator	Objective for FY2020
Global warming prevention	In the ratio of CO2 emissions to net output relative to FY2005	42% reduction
Optimization of resources	In the ratio of total amount of waste generated to output relative to FY2005	37% reduction
Control of Chemical Substances	Reduction in the quantity of the toxic chemical FY2005	81% reduction