

Toshiba Tec Malaysia Manufacturing Sdn. Bhd. Site Report Information

Address: Plot 111-A, Hala Kampung Jawa 2, Bayan Lepas Industrial Estate, 11900 Penang.

Lot area: 28,686 m², Building area: 12,478 m², Green ratio: 17%

Establishment: : Feb. 1, 1991, Employees: 389 (as of March 2016)

Major products: Option for MFPs, PSU, & Fax kit

ISO 14001 certified: Apr. 1998, Latest update: Feb 2016
(ISO Certificate reg. number: PSB 98-0026)



Message from Environmental Preservation Chief

To promote environmental awareness as follows:

- The reduction of CO2 emission
- Reduction of chemical substance emission
- 3R (Reuse, reduce and recycle)
- Minimize the depletion of natural resources - water saving activity
- Promote CSR activity at TTMM
- Continue to support conservation of biodiversity



Reshminster Singh
Asst. General Manager
/ General Administration

Major environmental activities in 2017

☆ ISO 14001 Environmental Management System

Certification obtained in Apr. 1998, Continuation Assessment in Feb 2016.

☆ Enforcement of environmental preservation system - 5th Action Plan

Compliance with laws and regulations; reinforcement of on site management

☆ Reduction of chemical substance emissions

Reduction of chemical substance emissions per basic unit of output by **78%** from FY2003 level (target: **22%** reduction).

☆ Reduction in CO2 emissions

Reduction of CO2 (energy) emission per basic unit of output by **87.5 %** from FY2003 level (target: **13.5%** reduction).

☆ Reduction in waste emissions, continuation of zero waste emissions

Reduction of total waste emissions by **70%** from FY2003 level (target: **18%** reduction).

☆ RoHS Compliance

All the products are RoHS compliant.

Environmental Month Jun 2017

Environmental awareness program

•Environment talk in collaboration with Department Of Environment Malaysia

•Employee education and training

•Promotion on 3R Reduce, Reuse and Recycle of waste.

•Training on workplace improvement Chemical Storage, Stencil Cleaning Room & Indoor Waste Collection Centre.

•Fire and chemical spillage drill

Corporate social responsibilities

•River Cleaning at Ecostream Botanic Garden Dept.

•Biodiversity: Support Penang state turtle conservation.

•Tree planting at nearby Queens bay.

Development of products and environmental technologies, Environmental consideration point

MFP OPTION RADF



FINISHER



FAX KIT



POWER SUPPLY UNIT

Toshiba Tec Malaysia Manufacturing Sdn. Bhd.**Integrated Management System (IMS) Policy**

We, Toshiba Tec Malaysia Manufacturing Sdn. Bhd. a manufacturer of electronic products are committed to enhance our customer satisfaction and stakeholder's expectation:

Continual improvement for product and service quality

Create quality products and services with pride and passion, keeping our customers in mind all the time and everywhere.

Actively participate in environmental protection & reduce environmental impact in our business process

Reduce the environment impacts of business process particularly on the prevention of global warming, efficient utilization of natural resources, control of chemical substances, conservation of biodiversity, conformance to Toshiba Tec Green Procurement guideline and set voluntary control limits whenever possible.

Develop health and safety conscious operation

Foster a safe and healthy work culture among employees by allocating resources and training. Provide a safe and healthy workplace by integrating safety & health into our daily business decisions and processes.

Ensure the IMS is conforming to the standards of ISO 9001, ISO 14001, OHSAS 18001, complying with applicable legal requirements and other requirements.

Periodically set, review & assess the risk related to quality, environment, health and safety to ensure it remains relevant and appropriate.

Make available and communicate this policy to interested parties, all persons working for and on behalf of TTMM.

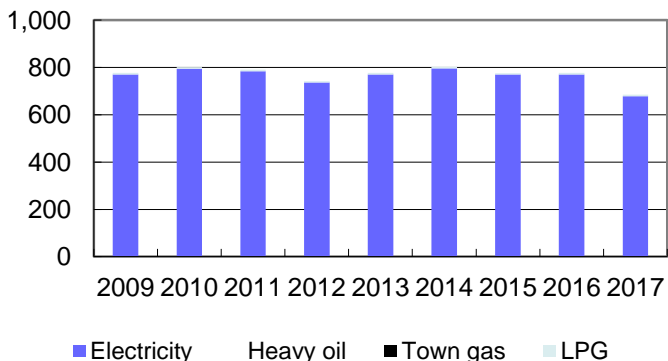
We shall continually educate our employees to uphold the integrity of the IMS.



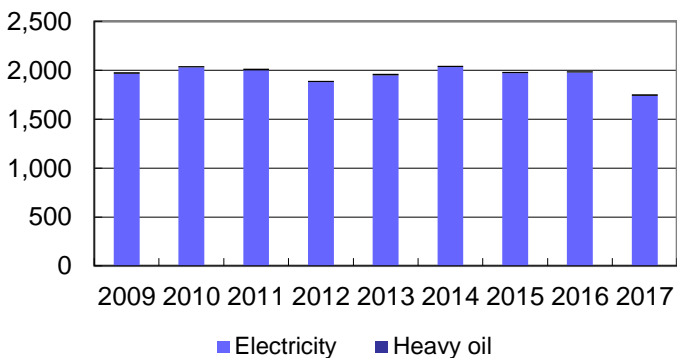
TATSUHIRO TSUCHIYA
Managing Director
22 Aug 2017

Environmental load data

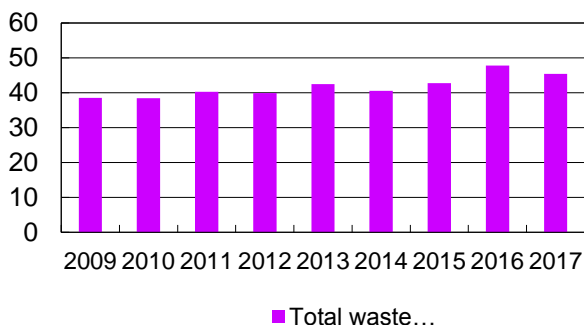
Energy usage (unit: KL)



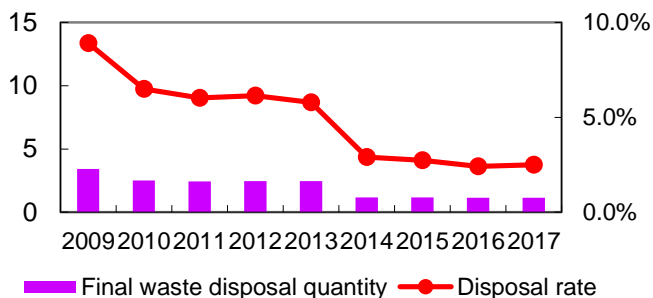
CO₂ emission (unit: ton-CO₂)



Total waste produced (unit: ton)

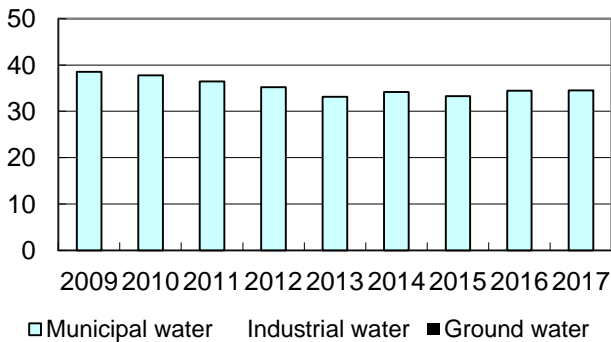


Final waste disposal quantity & disposal rate (unit: ton,%)

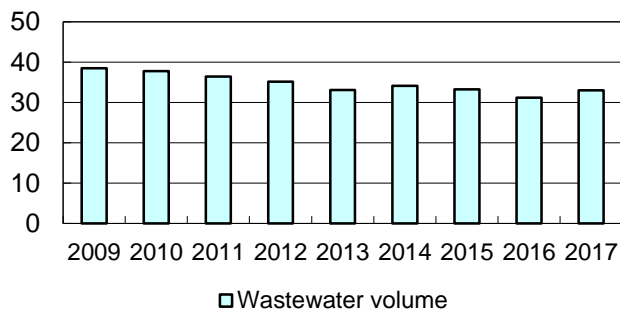


Major wastes: metal, plastic, paper

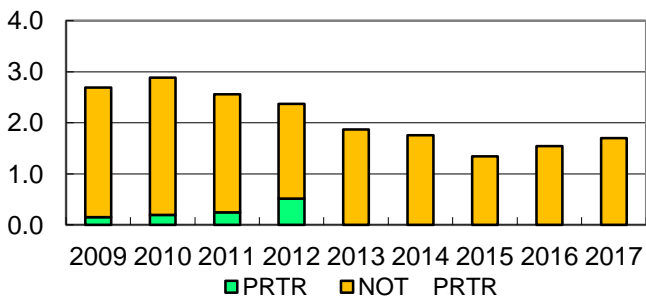
Water usage (unit: 1,000m³)



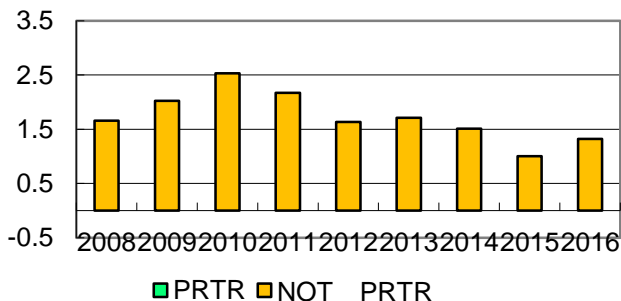
Wastewater volume (unit: 1,000m³)



Handing substances (unit: ton)



Substances volatilized and released to water (unit: ton)



Major chemical substances: IPA, Acetone

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)	NA	NA	NA	NA
SOx (Nm3/h)	NA	NA	NA	NA
Soot & dust (mg/Nm3)	NA	NA	NA	NA

Wastewater measurement results (major results) (Facility (acid/alkali surface treatment facility: Wastewater is discharged to rivers.

	Regulation value	Self-control value	Actual measurement	Measurement frequency
Hydrogen ion concentration (pH)	NA	NA	NA	NA
BOD (mg/l)	NA	NA	NA	NA
COD (mg/l)	NA	NA	NA	NA
SS (mg/l)	NA	NA	NA	NA
Nitrogen (mg/l)	NA	NA	NA	NA
Fluorine (mg/l)	NA	NA	NA	NA

Noise & vibration measurement results (specific facilities (noise: 1 (Air Compressor), vibration: 0

	Location: Time	Regulation value	Self-control value	Actual measurement	Measurement frequency
Noise (dB)	Lot boundary: Day	70	65	51	1 time / 5 year
	Lot boundary: Night	60	55	47	1 time / 5 year
Vibration (dB)	Lot boundary: Day	NA	NA	NA	NA
	Lot boundary: Night	NA	NA	NA	NA

Other measurement results (Sewage Water Law: Major results)

	Regulation value	Self-control value	Actual measurement	Measurement frequency
Hydrogen ion concentration (pH)	NA	NA	NA	NA
BOD (mg/l)	NA	NA	NA	NA
SS (mg/l)	NA	NA	NA	NA

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

<Global Environmental Action>

On June 2017, Toshiba Tec Malaysia Manufacturing in collaboration with Botanic Garden department and in support to TOSHIBA target to plant 1.5 million trees by 2023. Top management together with employees, children and family members, and local community, total 40 person joined effort to planted 100 trees . This is continue annual program.

(Outline of Tree Planting Activities)

-Date: 10-Nov-2017, 9.00 AM-11:30 AM
inside along the storm retention pond.



Environmental communication – TTMM Environmental Month 2017 Activities

TTMM Environmental Month 2017

Activity	Content	Photo	Result
22-Jul-17	Objective :To save Environment by Cleaning River which were polluted by some foreign material		Received appreciation from government dept for continuous effort.
River cleaning at Botanical Gardens	Activity to raise awareness among employees, employees family and children and local community.		
10-Nov-17	Objective : To protect Environment from Global Warming		A programme call Greener Penang conducted by MBPP (Landelap Government dept) to plant trees for 24 hrs. on 10.11.2017
Tree planting at Queens Bay Interchange park	TOSHIBA target to plant 1.5 million trees by 2025. MD and top management together with employees, employees family, children and local community joined effort to planted 100 trees Cassia Fistula . This is continuous program.		
5-Aug-17	Objective :Save &Protect Green Turtle Species		Supported by TTMM employees family members, Government dept.,School Children total 104 members are join the event.
Turtle Sanctuary at Pantai Kerachut	One group (104 persons) from TTMM lead by TTMM MD Mr. T.Tsuchiya. One of the programme is release 30 baby turtle (Green Turtle). TTMM also sponsor 20 units of Cage to protect baby turtle after hatched from predators and 2 rolls of netting to cover direct expose from sunlight. Employer's family members, public , school children also join this Biodiversity events.		
19-Jul-17	Objective: Environmental awareness to all employees		Attended by employees and top management
Environment talk in collaboration with Department Of Environment Malaysia (DOE)	TTMM in collaboration with DOE had organized an environmental talk for employees at TTMM training room # 1. DOE introduce Schedule waste handling programme.		
21-Jul-17	Objective: Save ways to Handle Schedule Waste		Employees gain knowledge in saw way handling waste chemical
Talks by Biochem Laboratory Vendor on How to handling Schedule Waste	TTMM in collaboration with Biochem Laboratory vendor had organized an environment talk for employees at TTMM training room # 1. Biochem introduce Schedule waste handling and Environment pollution programme.		
20-Jul-17	Objective: Ensuring compliance concerning TTMM waste		On site inspection of subcontractors to ensure implementation and controlled are appropriate and compliance.
Visit / audit waste recycling facility	Checklist for the items to be confirmed on-site inspector is implemented.		
13-Mar-17	Objective: Preparedness and response on chemical		ERT respond as per plan.
Chemical spillage emergency drill	Test for emergency preparedness and response to prevent chemical discharge to drain/river. To ensure ERT, security and chemical handler act promptly during emergency.		

Conservation of Biodiversity – Continue support of Penang’s turtle conservation program

5-Aug-2017 - The Penang Turtle Sanctuary is located at Pantai Kerachut in Penang National Park and was set up to help protect and preserve the endangered population of turtles in Malaysian waters. This program to educate the TTMM employee and children on the importance of hatcheries turtle.

Turtle species in Malaysia are protected under Fisheries Act 1985 and Fisheries (Control of Endangered Species of Fish) 1999 (Amendment) Regulations 2008.



Location of turtle conservation site (25 km from TTMM)



TTMM site



TTMM also sponsor 20 units of Cage to protect baby turtle after hatched from predators and 2 rolls of netting to cover direct expose from sunlight

Total 42 employees and children, top management, local community and fisheries department staff participate in this annual programme.



Collecting baby turtle from nesting to transfer tank:

The nesting was protected by metal cage to prevent from monitor lizard, eagle, monkey awaiting to eat them. The baby turtle will be transfer to transfer tank for one week to let them stronger before release to the sea.

Release baby turtle:

Did you know that probability one baby turtle may survive for every 10, 000 released to sea?
Did you know the turtle will return to the same beach where she was first gone to the sea?



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 FY2003	14.0% reduction
Optimization of resources	In the ratio of total amount of waste generated to output relative to FY2003	22% reduction
Control of Chemical Substances	In the total emissions of chemical substances to air and water relative to FY2003	22% 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 FY2003	15% reduction
Optimization of resources	In the ratio of total amount of waste generated to output relative to FY2003	24% reduction
Control of Chemical Substances	In the total emissions of chemical substances to air and water relative to FY2003	24% reduction