

P.T . TEC INDONESIA Site Report Information

Address: Lot 108-110, Batamindo Industrial Park, Mukakuning, Batam 29433

Lot area: 20,475 m², Building area: 19,333.6 m², Green ratio: 22.4 %

Establishment: 01, 07, 1992, Employees: 1536 (as of March 2018)

Major products: Dot Matrix Printers, POS Products and Barcode Printers

ISO 14001 Certified: Aug 1998, Latest update: 4th-5th April 2017
(ISO 14001 : 2015 Certificate number: EMS 653786)



Message from Environmental Preservation Chief

PT. TEC Indonesia (TIE) put concern for the environment as a priority in all our business activities, protect the environment as well as the world's natural resources. We promoting environmental awareness to our employees and local residents for sustainable tomorrow.



Environmental Preservation Chief
Bambang Soeratno

Major environmental activities in 2017

Reduction in CO2 emissions

- ~ Replacement LED lamp in PCBA.
- ~ Replacement of efficiency Air Conditioners system in Production area.
- ~ Change conventional 400 watt high bay lamp to 80 watt LED type .
- ~ Install auto timer to switch off AC after working hour.

Effective use of Natural Resources

- ~ Use rain water for canteen floor cleaning & gardening.

Reduction in Waste

- ~ Replace supplier packaging material by reusable trolley.
- ~ Recycle and reuse new chemical waste.
- ~ Re-design PCBA raw card to reduce PCB break away waste.

Corporate Social Responsibility

- ~ Tree planting in factory area.
- ~ Join tree planting at Duriangkang Lake initiated by government.
- ~ Beach Cleaning at Bale-Bale Beach.
- ~ Blood Donation.

Development of products and environmental technologies, Environmental consideration point



B-EX6T



B-FP3D



PT. TEC INDONESIA

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:

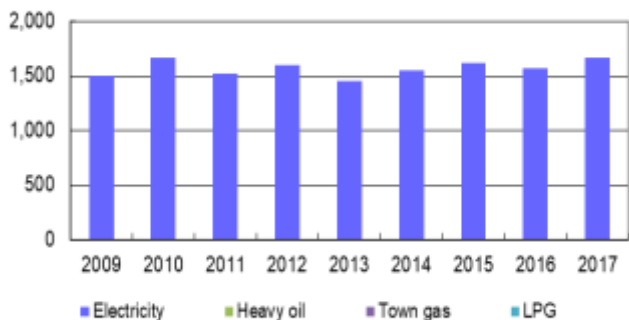
1. “Monozukuri*” – We create quality products and services with pride and passion, keeping our customers in mind all the time and everywhere.
2. We respect each and individual employee, develop one’s abilities and together we foster an open and healthy corporate culture and we tirelessly seek new challenges.
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.

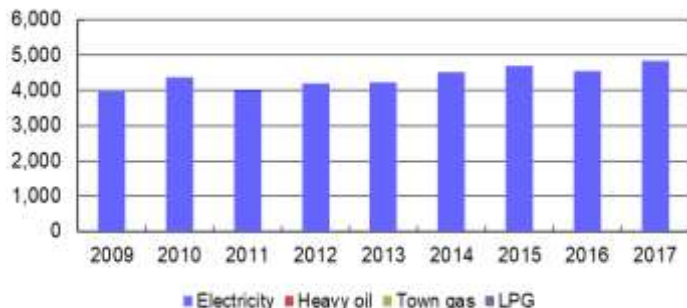
Hirohisa Akaike
Managing Director
5TH March 2018

Environmental load data

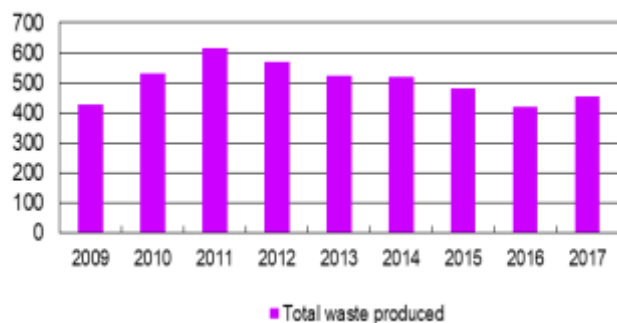
Energy usage (unit: KL)



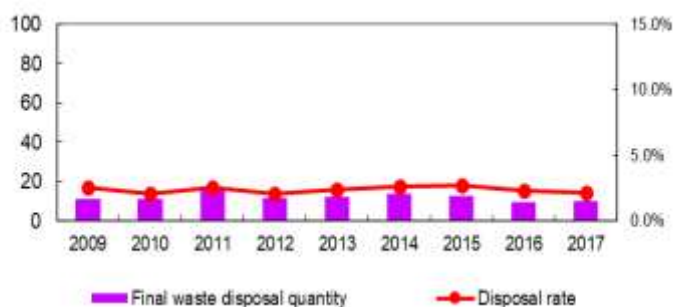
CO₂ emission (unit: ton-CO₂)



Total waste produced (unit: ton)

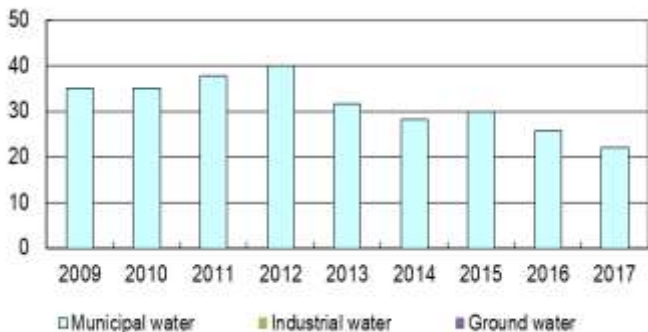


Final waste disposal quantity & disposal rate (unit: ton,%)

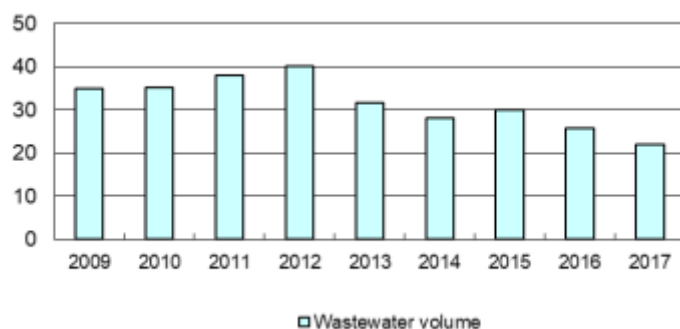


Major wastes: carton, paper, plastic, etc.

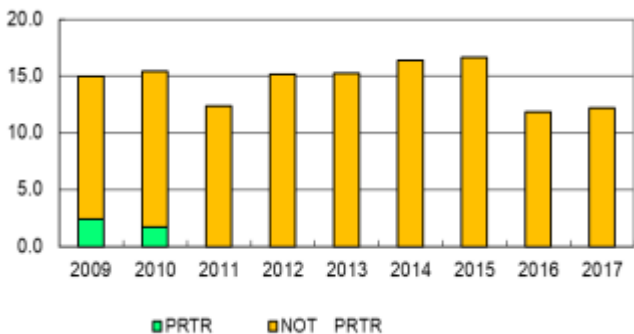
Water usage (unit: 1,000m³)



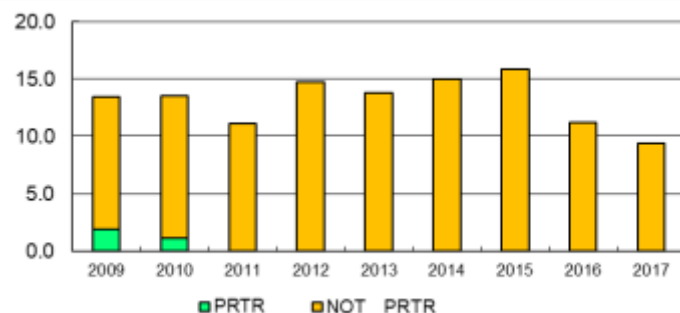
Wastewater volume (unit: 1,000m³)



Handing substances (unit: ton)



Substances volatilized and released to water (unit: ton)



Major chemical substances: IPA (Isopropyl alcohol)

Compliance management

Atmospheric measurement results :

Exhaust fan (SMT line, Solder dross, Dot Head, PCB each 1 unit). From outside Building Exhaust fan 4 units

	Regulation value	Self-control value	Actual measurement	Measurement frequency
NO ₂ (mg/Nm ³)	Max. 1000	Max. 500	11.55	Twice/year
SO ₂ (mg/Nm ³)	Max. 800	Max. 400	2.62	Twice/year
Lead, Pb (mg/Nm ³)	Max. 12	Max. 6	0.67	Twice/year

Wastewater measurement results (major results)

Wastewater is discharged to rivers (Lake Duri Angkang). FDS Lot 107,108, 109, 110

	Regulation value	Self-control value	Actual measurement	Measurement frequency
Hydrogen ion concentration (pH)	6.0 - 9.0	6.5 - 8.5	7.30	Twice/year
BOD (mg/l)	Max. 150	Max. 135	43.83	Twice/year
COD (mg/l)	Max. 300	Max. 270	146.00	Twice/year
TSS (mg/l)	Max. 400	Max. 360	21.33	Twice/year
Nitrogen (mg/l)	Max. 60	Max. 30	3.41	Twice/year
Fluoride (mg/l)	Max. 3	Max. 2.7	0.43	Twice/year

Noise & vibration measurement results (Boundary Noise)

	Location: Time	Regulation value	Self-control value	Actual measurement	Measurement frequency
Noise (dB)	Lot boundary: Day	Max. 70	Max. 67	65	Twice/year
	Lot boundary: Night	NA	NA	NA	NA
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

<Tree Planting at Duriangkang Lake>

To conserve our ecosystem, TIE participates in tree planting organized by government, BP Batam. This activity was held at Duriangkang Lake, Batam Island.

(Outline)

Date: August 6th, 2017

A total of 1,520 tree were planted. Number of people participated 1,520 participants, including 15 members from TIE.



<Clean-up Activity at Bale Bale Beach>

TIE organized a clean-up activity at Bale-Bale Beach in Environment month. Employees cleaned the beach, collected the rubbish, installed clean sign board at designated area, mangrove planting & donated cleaning equipment to local resident.

(Outline)

Date: December 23, 2017

Number of people participated: 132 employees, including Management.

Total collected 237 kg of rubbish (rubbish, plastic bottle, plastic bag, dead leaf and food packaging)



Conservation of Biodiversity

<Biodiversity of *Nepenthes (Kantong Semar)* >

TIE initiated unique plant conservation activity in TIE factory. The type of unique plant selected was *Nepenthes (Kantong Semar)*. In FY2018 we continue this activity by breeding the Kantong Semar in the new places in the company premises. On January 24, 2018 we held an exhibition of biodiversity to employees during lunch hour.



Breeding of Kantong Semar



Biodiversity Exhibition

Environmental targets

The main Environmental targets for FY2018.

Item	Indicator	Target for FY2018
Global warming prevention	In the ratio of CO2 emissions per production output relative to FY2005	8 % reduction
Optimization of resources	In the ratio of total amount of waste generated per production output relative to FY2005	17 % reduction
Control of Chemical Substances	Reduction in the toxic chemical emission per production output relative to FY2005	51 % reduction

Environmental objectives

The main Environmental objectives for FY2020.

Item	Indicator	Objective for FY2020
Global warming prevention	In the ratio of CO2 emissions per production output relative to FY2005	9 % reduction
Optimization of resources	In the ratio of total amount of waste generated per production output relative to FY2005	18 % reduction
Control of Chemical Substances	Reduction in the toxic chemical emission per production output relative to FY2005	61 % reduction