

PT . 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: 1381 (as of March 2020)

Major products: Dot Matrix Printers, POS Products, Barcode Printers, Self Service Kiosk and Multi Functional Printer

ISO 14001 Certified: Aug 1998, Latest update: 9th April 2020
(ISO 14001 : 2015 Certificate number:2020-0804-01)



Message from Environmental Preservation Chief

PT. TEC Indonesia (TIE) 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. We promoting environmental awareness to our employees and local residents for sustainable tomorrow.



Environmental Preservation Chief
Bambang Soeratno

Major environmental activities in FY2019

Reduction in CO2 emissions

- ~ Replacement of efficiency Air Conditioners system in Production area.
- ~ Replacement LED lighting in Production area.
- ~ Change conventional high bay lamp & spot bay lamp to LED type .

Effective use of Natural Resources

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

Reduction in Waste

- ~ Continue to reuse wooden pallet for repair canteen chairs & umbrella stand.
- ~ New PCBA raw card designed with minimum PCB break away waste.

Reduction in Chemical

- ~ Replace 1 unit AWS Machine with Inline Selective Solder Machine.

Corporate Social Responsibility

- ~ Tree planting with students at School Premises.
- ~ Join tree planting at Sei Harapan Lake together with others corporate & local residents initiated by government.
- ~ Beach Cleaning at Tiga Puteri Beach with local residents & family members.
- ~ Blood Donation included family members.
- ~ Invited children of employees for plant tour & environmental education.

Conservation of Biodiversity

- ~ Held an exhibition of biodiversity to employees during lunch hours.

Development of products and environmental technologies, Environmental consideration point

BA400



<Halogen Free PCB>

- Halogen-free material was adopted for the lead wires of Panel PWB.
- Use rate of halogen-free PWB in a product is 1/5 (20%)

Zoot



<Resource Saving>

- Replaced reflex cushion with air bag achieve saving in material cost and reduce carton box size by 10%.
- Increase printer unit per pallet from 64 unit to 80 units.

PT. TEC INDONESIA

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 hazard, such information are readily available to interested parties. We strive to continually improve our management system with the following commitments:

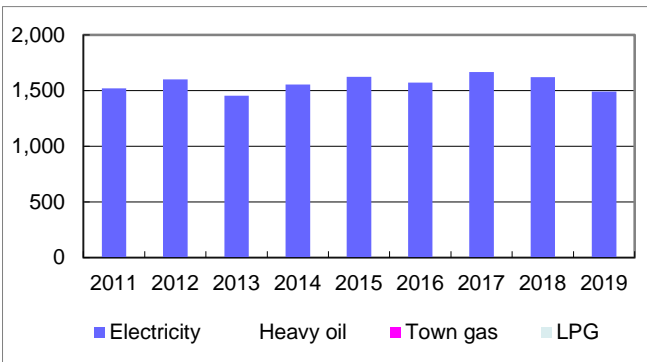
1. “Monozukuri*” – We create quality products and services with pride and passion, keeping our customers in mind all the time and everywhere.
2. We respect each and individual employee, develop one’s abilities and together we foster an open and healthy corporate culture and we tirelessly seek new challenges.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

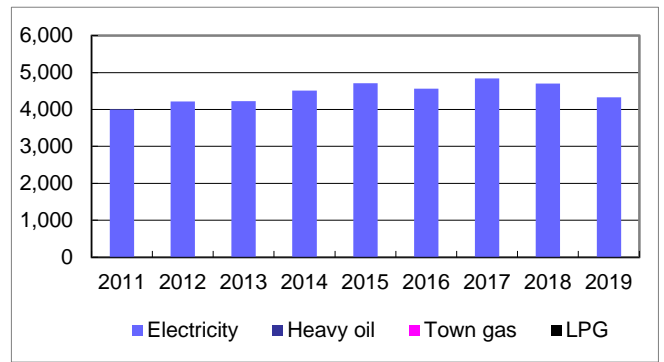
Tatsuhiko Tsuchiya
Managing Director
22 Jan 2020

Environmental load data

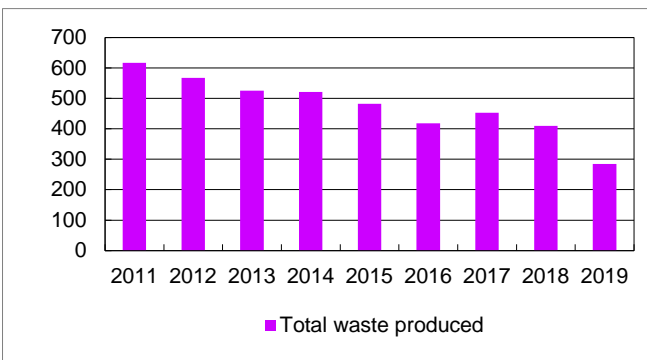
Energy usage (unit: KL)



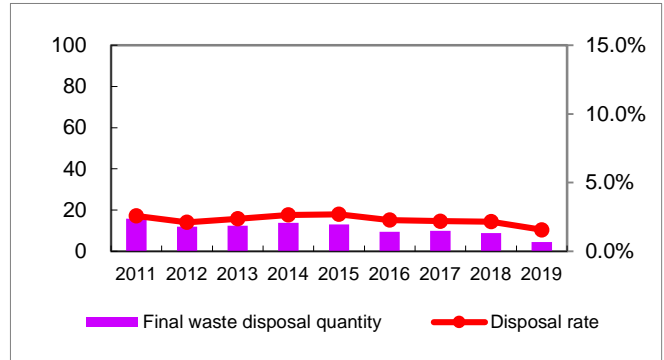
CO₂ emission (unit: ton-CO₂)



Total waste produced (unit: ton)

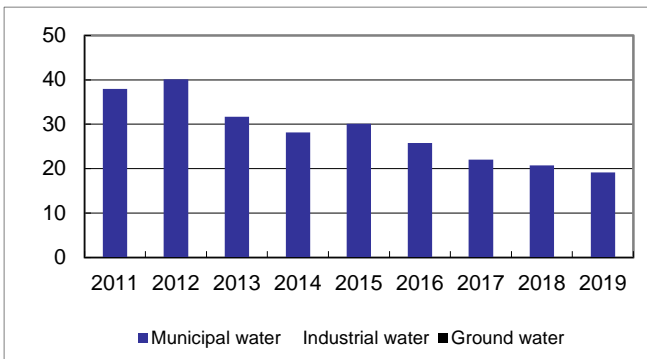


Final waste disposal quantity & disposal rate (unit: ton,%)

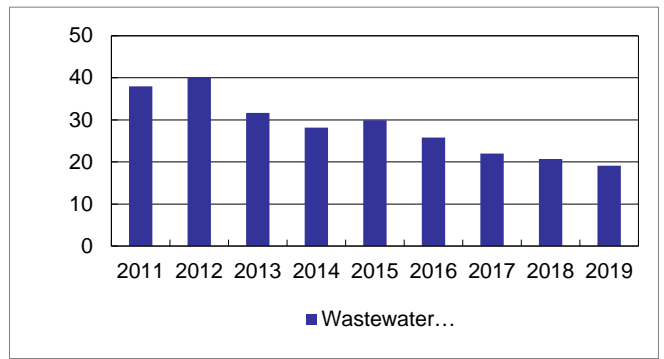


Major wastes: carton, paper, plastic, etc.

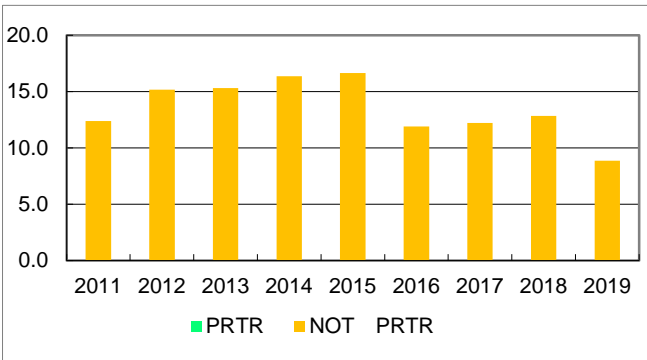
Water usage (unit: 1,000m³)



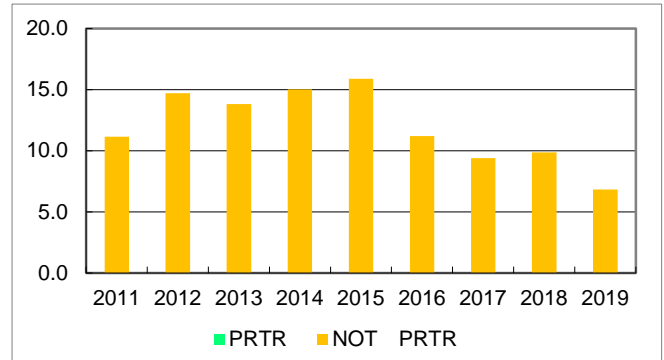
Wastewater volume (unit: 1,000m³)



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, Solder Dross, Dot Head, PCB & Epoxy Room each 1 unit). From outside Building Exhaust fan 5 units

	Regulation value	Self-control value	Actual measurement	Measurement frequency
NO ₂ (mg/Nm ³)	Max. 1000	Max. 500	4.91	Twice/year
SO ₂ (mg/Nm ³)	Max. 800	Max. 400	2.62	Twice/year
Lead, Pb (mg/Nm ³)	Max. 12	Max. 6	0.68	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	6.76	Twice/year
BOD (mg/l)	Max. 150	Max. 135	13.80	Twice/year
COD (mg/l)	Max. 300	Max. 270	45.40	Twice/year
TSS (mg/l)	Max. 400	Max. 360	26.20	Twice/year
Nitrogen (mg/l)	Max. 60	Max. 30	4.90	Twice/year
Fluoride (mg/l)	Max. 3	Max. 2.7	0.05	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	64.80	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 With Students at School Premises >

To conserve our ecosystem, we initiated to held tree planting at school premises. This activity was conducted at Batu Aji, Batam Island.

(Outline)

Date: April 24th, 2019

A total of 15 tree were planted. Number of people participated 94 participants, including 26 members from TIE (Management & EHS committee).



<Invite Children of Employees to Company Plant Tour >

To introduce our company operation and educate children on environmental knowledge. At the same time, children got the chance to visit their parents workplace.

(Outline)

Date: December 27th, 2019

Number of children participated 30 participants.



<Tree Planting at Sei Harapan Lake >

To conserve our ecosystem, we participated in tree planting organized by government, BP Batam. This activity was held at Sei Harapan Lake, Batam Island.

(Outline)

Date: July 28th, 2019

A total of 2,000 tree were planted. Number of people participated 1,200 participants, including 15 members from our company.



<Clean-up Activity at Tiga Puteri Beach >

We organized a clean-up activity at Tiga Puteri Beach in Environment month. At the same time, we invited family members and local residents to join us. We cleaned the beach and installed awareness board at designated area & donated cleaning equipment to local residents.

(Outline)

Date: December 14th, 2019

Number of people participated: 46 employees, including Management.

Total 283 kg of rubbish collected (rubbish, plastic bottle, plastic bag, dead leaf and food packaging)



Conservation of Biodiversity

<Biodiversity of *Nepenthes (Kantong Semar)* >

We initiated unique native plant conservation activity in our factory. The type of unique plant selected was *Nepenthes (Kantong Semar)*. In FY2019 we continue this activity by breeding the Kantong Semar in the new places in the company premises. On January 7, 2020 we held an exhibition of biodiversity to employees during lunch hour.



Biodiversity Exhibition

Environmental targets

The main Environmental targets for FY2020.

Item	Indicator	Target for FY2020
Global warming prevention	In the ratio of CO2 emissions to net output relative to FY2005	1 % reduction
Optimization of resources	In the ratio of total amount of waste generated to output relative to FY2005	24.5 % reduction
Control of Chemical Substances	In the ratio of total amount of toxic chemical generated to output relative to FY2005	36 % reduction

Environmental objectives

The main Environmental objectives for FY2022.

Item	Indicator	Objective for FY2022
Global warming prevention	In the ratio of CO2 emissions to net output relative to FY2005	1 % reduction
Optimization of resources	In the ratio of total amount of waste generated to output relative to FY2005	24.6 % reduction
Control of Chemical Substances	In the ratio of total amount of toxic chemical generated to output relative to FY2005	49 % reduction