

## PT . TEC INDONESIA Site Report Information

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

Lot area: 20,475 m<sup>2</sup>, Building area: 19,333.6 m<sup>2</sup>, Green ratio: 22.4 %

Establishment: 01, 07, 1992, Employees: 1574 (as of March 2022)

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

ISO 14001 Certified: Aug 1998, Latest update: 19<sup>th</sup> April 2022  
(ISO 14001 : 2015 Certificate number:2020-0804-01)



## Message from Environmental Preservation Chief

PT. TEC Indonesia (TIE) 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. We promote environmental awareness for sustainable tomorrow.



Environmental Preservation Chief  
Bambang Soeratno

## Major environmental activities in FY2021

### Reduction in CO2 emissions

- Replacement of efficiency Air Conditioners system in Production area.
- Replacement LED lighting in Production area.
- Change conventional high bay lamp to LED type.
- Install string switch at production line.

### Reduction in Water

- Replace water efficiency device (eg. Water tap, toilet flushing system) and check leakage regularly.
- Reduce operation hour when low production output
- Promote water saving awareness through poster and email.

### Reduction in Waste

- Design new model PCBA card with minimum break away
- Expand new supplier to return plastic packaging
- Utilize plastic bottles & the IC Tray for pots of plant ( Gardening)

### Reduction in Chemical

- Review chemical usage in production area.

### Conservation of Biodiversity

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

## 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.

# **PT. TEC INDONESIA**

## **Integrated Management System Policy**

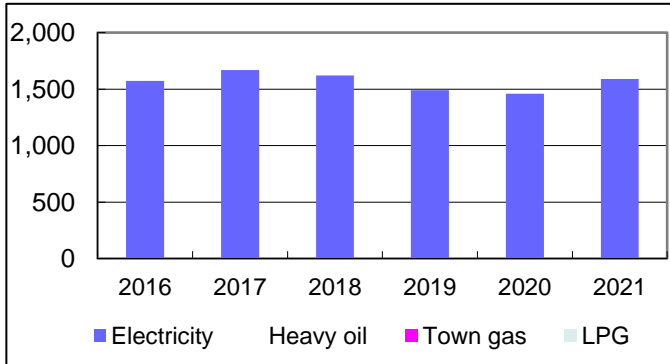
We shall integrate **Quality, Environmental, Health & Safety** considerations in our business decision making to enhance customer satisfaction, manage environmental impact, provide safe and healthy workplaces to prevent injury & ill health and safety hazard, such information are readily available to interested parties. We strive to continually improve our management system with the following commitments:

1. 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.

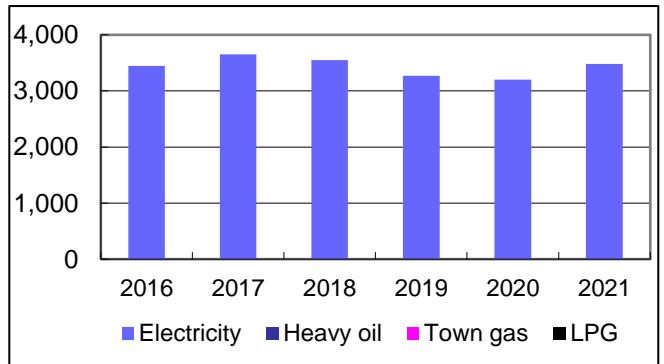
**Shingo Hamamura**  
Managing Director  
1 Jan 2022

## Environmental load data

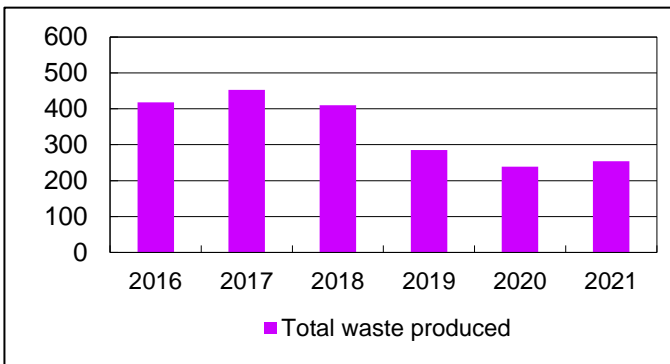
Energy usage (unit: KL)



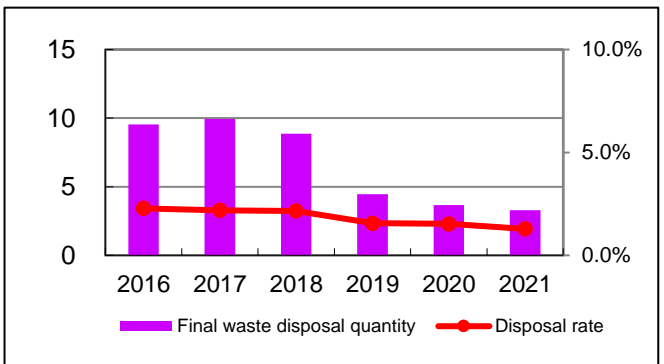
CO<sub>2</sub> emission (unit: ton-CO<sub>2</sub>)



Total waste produced (unit: ton)

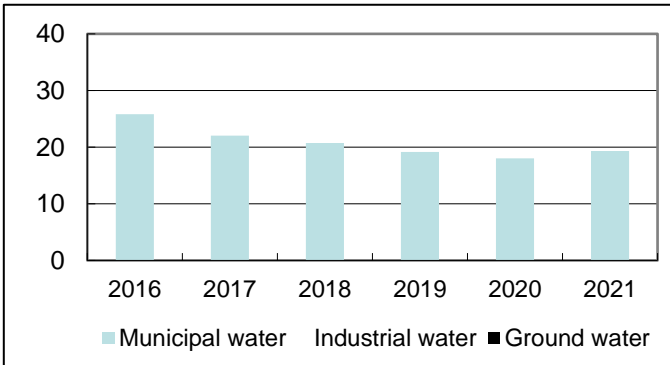


Final waste disposal quantity & disposal rate (unit: ton,%)

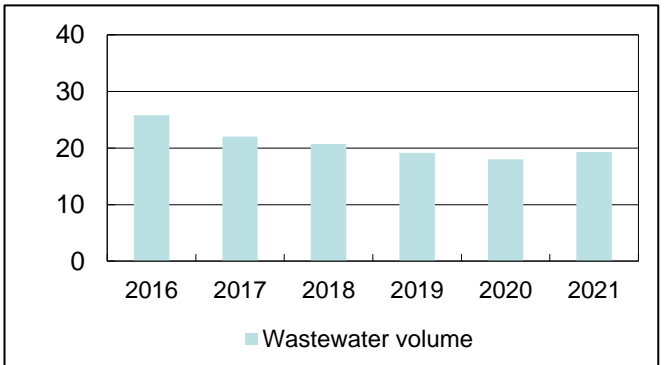


Major wastes: carton, paper, plastic, etc.

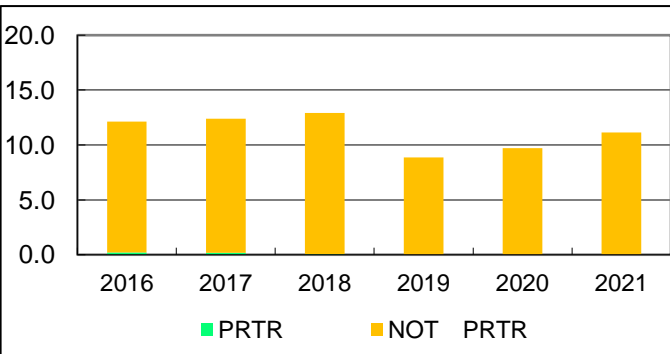
Water usage (unit: 1,000m<sup>3</sup>)



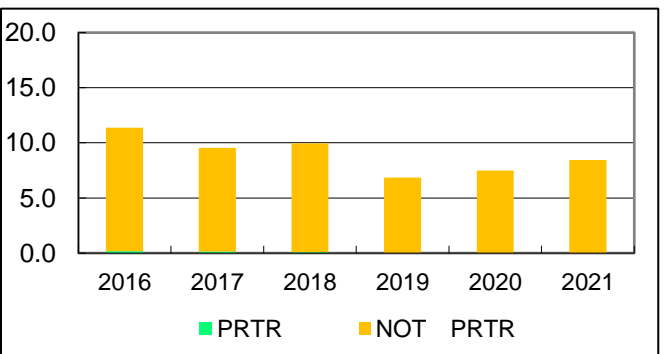
Wastewater volume (unit: 1,000m<sup>3</sup>)



Handing substances (unit: ton)



Substances volatilized and released to water (unit: ton)



Major chemical substances: 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 <sub>2</sub> (mg/Nm <sup>3</sup> )	Max. 1000	Max. 500	8.52	Twice/year
SO <sub>2</sub> (mg/Nm <sup>3</sup> )	Max. 800	Max. 400	3.15	Twice/year
Lead, Pb (mg/Nm <sup>3</sup> )	Max. 12	Max. 6	0.31	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	6.83	Twice/year
BOD (mg/l)	Max. 150	Max. 135	5.97	Twice/year
COD (mg/l)	Max. 300	Max. 270	19.65	Twice/year
TSS (mg/l)	Max. 400	Max. 360	23.00	Twice/year
Nitrogen (mg/l)	Max. 60	Max. 30	2.74	Twice/year
Fluoride (mg/l)	Max. 3	Max. 2.7	0.20	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	61.85	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

### <Environmental Awareness Promotion>

We share good practice and latest environmental news continuously to raise environmental awareness among employees.

We shared poster on prohibit single use plastic bag in the canteen in order to beat plastic pollution. No food packaging bag provided for takeaway lunch at canteen.

(Outline)

Date: August 18th, 2021

Number of employee participated 1436 participants.



### <Chemical Awareness and Spill Drill Training>

We conduct chemical awareness and spill drill annually to chemical spill team learn on the procedure of chemical spillage control. We brief chemical spill team on how to read Safety Data Sheet correctly in order to reduce chemical hazard and possible injury. They also taught how to use suitable absorbing materials, equipment, personal protective equipment to handle chemical spillage.

(Outline)

Date: December 30th, 2021

A total of 15 participants were joined chemical spill drill at Waste Chemical room.



### <Conducted E-waste Programm at Company & Dormitory >

We continuously educate employees for properly disposing of electronic equipment used at work and at home, including computer and household appliances. We organized e-waste collection day at work place and dormitory to collect and disposed e-waste to licensed e-waste collector.

(Outline)

Date: July 23th, 2021

Item collected : Conventional Air-Conditioner, Refrigerator, Washing machine and Television.



## Conservation of Biodiversity

### <Biodiversity Exhibition of *Nepenthes (Kantong Semar)*>

We initiated unique endangered native plant conservation activity in our factory. The type of unique plant selected was *Nepenthes (Kantong Semar)*. In FY2021 we continue this activity by breeding the Kantong Semar in the new places in the company premises.

(Outline)

Date: January 6th, 2022

A total of 625 of employees were joined this activity.



Biodiversity Exhibition

## Environmental targets

The main Environmental targets for FY2022.

Item	Indicator	Target for FY2022
<b>Global warming prevention</b>	In the ratio of CO2 emissions to net output relative to FY2005	5 % reduction
<b>Optimization of resources</b>	In the ratio of total amount of waste generated to output relative to FY2005	34 % reduction
<b>Control of Chemical Substances</b>	In the ratio of total amount of toxic chemical generated to output relative to FY2005	37 % reduction

## Environmental objectives

The main Environmental objectives for FY2024.

Item	Indicator	Objective for FY2024
<b>Global warming prevention</b>	In the ratio of CO2 emissions to net output relative to FY2005	4 % reduction
<b>Optimization of resources</b>	In the ratio of total amount of waste generated to output relative to FY2005	34 % reduction
<b>Control of Chemical Substances</b>	In the ratio of total amount of toxic chemical generated to output relative to FY2005	38 % reduction