

# Environmental results report

**Company name** : Kyoden (Thailand) Co., Ltd.

**Factory name** : Thai Factory

**Address**: 209 Moo 8, Yutthasat 331 Rd., Bowin, Sriracha, Chonburi 20230 Thailand

34/4 Moo 8, Yutthasat 331 Rd., Bowin, Sriracha, Chonburi 20230 Thailand

**Report object period**: 2020/4/1~2021/3/31

**Report person in charge**: Ms. Benjamard Ausin / ISO/Document & Environment Ass't MGR

**Report responsible**: Mr. Russamee Tuantummaruk / ISO/Document & Environment MGR

No	Theme	Aim of 2020	The results	Evaluation	Aim of 2021
1	Claim environmental neighbors must be zero	0	0	○	0
2	Total electric consumption per unit (SEC) less than 42.00 kWh / m <sup>2</sup> per month	41.00 kWh / m <sup>2</sup>	51.08	×	43.00 kWh / m <sup>2</sup>
3	Water Resources Consumption less than 0.67 m <sup>3</sup> / m <sup>2</sup> per month	0.60 m <sup>3</sup> / m <sup>2</sup>	0.72	×	0.64 m <sup>3</sup> / m <sup>2</sup>
4	PCB Scrap not more than 2% per month.	2.35%	2.47%	×	2.00%

<Instructions in the report>

1 About a crude oil conversion factor and a CO2 emission coefficient, it varies according to an electric power company, the gas company of each factory.

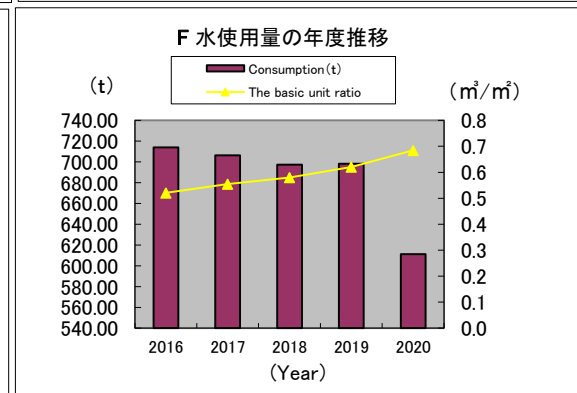
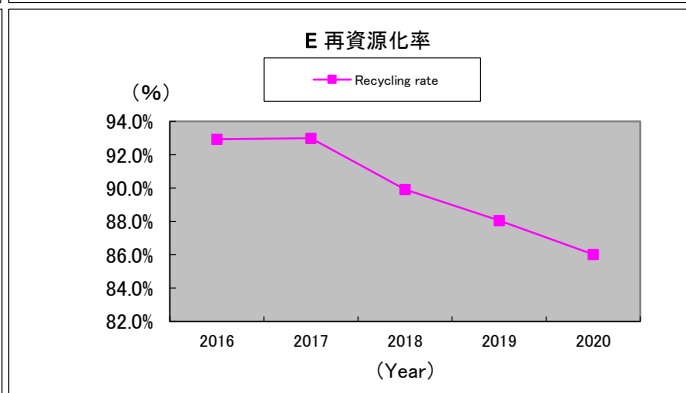
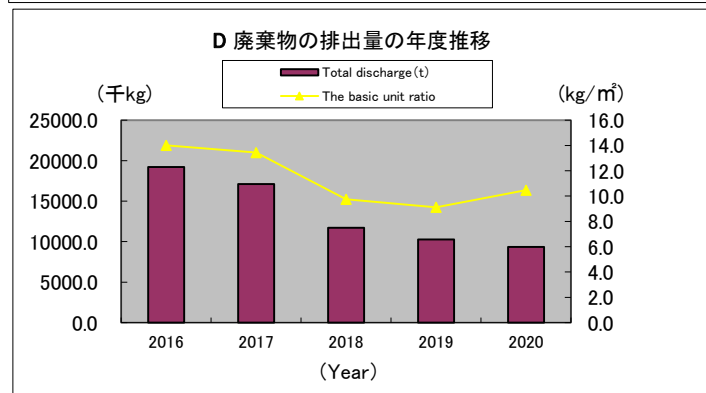
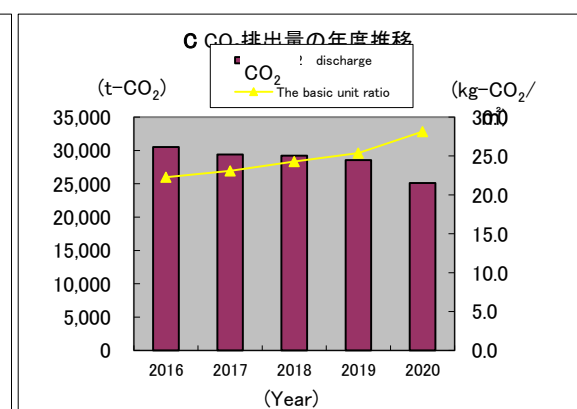
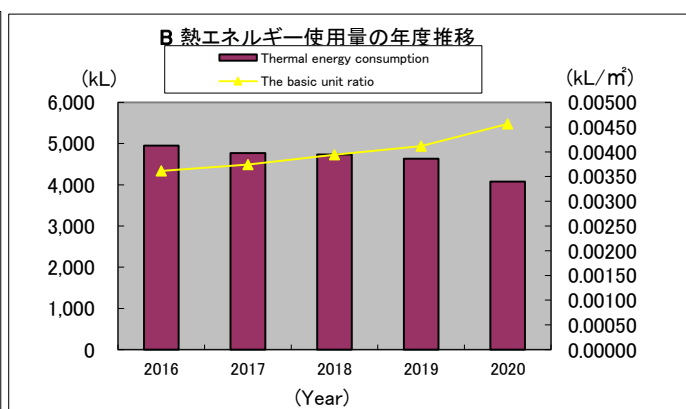
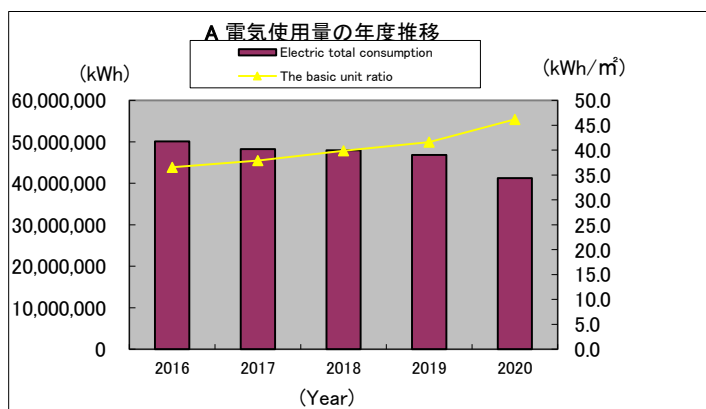
2 About aquatic resources, the use source of a river of each factory is different.

3 Because laws and regulations vary according to the local government of each factory location about water quality measurement, a measurement item and the standard values are different.

4 About the atmosphere measurement, I exclude the factory without facilities targeted for laws and regulations from a report.

# 環境負荷データ(load data)

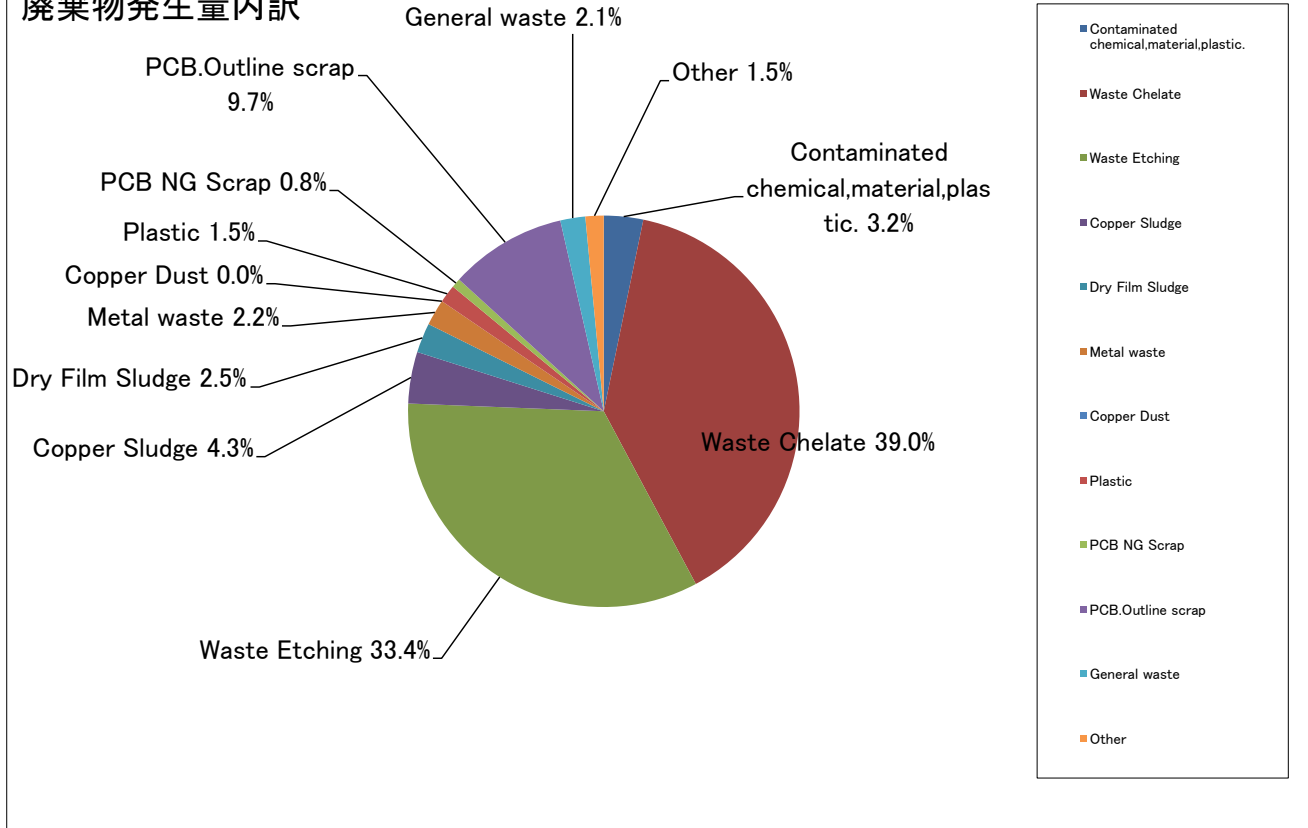
工場名 (Factory name)	エネルギー(Energy)			廃棄物(Waste)		水資源(Aquatic resources)	水質測定結果(Water quality measurement result)						大気の実績測定結果 (The atmospheric measurement results)			
	Electric total consumption	Thermal energy consumption	CO <sub>2</sub> discharge	Total discharge	Quantity of recycling	Water for industrial use	pH	BOD	COD	SS	n-ヘキサン(鉱油類)(n-hexane Mineral oil)	n-ヘキサン(動植物油類)(n-hexane Animals and plants oil)	大腸菌群数 (The number of the coliform bacteria)	特定施設名(Specific facilities name)		
	(kWh)	(kL)	(t-CO <sub>2</sub> )	(t)	(t)	Consumption(千m <sup>3</sup> )	-	mg/L	mg/L	mg/L	mg/L	mg/L	個/cm <sup>3</sup>	Nox(ppm)	Sox(ppm)	ばいじん(mg/m <sup>3</sup> N)
Thai factory	41,239,200	4,076	25,127	9,356.89	8,048.89	611,283.00	8.09	26.42	114.58	6.58	N/A	N/A	N/A	29.27	N/A	5.35



廃棄物発生量内訳(Breakdown of the quantity of waste outbreak)

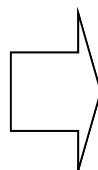
廃棄物名(Name of the waste)	発生量 Quantity of outbreak(t)	割合(Ratio)
Contaminated chemical,material,plastic.	303.62	3.2%
Waste Chelate	3645.466	39.0%
Waste Etching	3127.975	33.4%
Copper Sludge	398.785	4.3%
Dry Film Sludge	229.3	2.5%
Metal waste	201.83579	2.2%
Copper Dust	0	0.0%
Plastic	139.0439	1.5%
PCB NG Scrap	71.6604	0.8%
PCB.Outline scrap	905.3947	9.7%
General waste	192.875	2.1%
Other	140.9296	1.5%
合計	9,356.89	100%

廃棄物発生量内訳



## マテリアルバランス(Material balance)

INPUT		
エネルギー(Energy)		
電気(Electricity)	41,239	MWh
重油(Heavy oil)	0	kL
灯油(Kerosene)	0	kL
軽油(Light oil)	0	kL
都市ガス(Gas)	385	km <sup>3</sup>
LPG(Liquefied natural gas)	0	km <sup>3</sup>
資源(Resources)		
地下水(Groundwater)	0	t
上水・工水(Water supply)	611	t
基板コア材(Board Core)	763,528	m <sup>2</sup>
段ボール(Corrugated cardboard)	179	t



OUTPUT		
大気(Atmosphere)		
CO <sub>2</sub>	25,127	t-CO <sub>2</sub>
水域(Area of the sea)		
河川(River)	0	t
下水(Sewage)	489,026	t
廃棄物(Waste)		
再資源化量(Quantity of recycling)	8,049	t
最終処分量(Quantity of last disposal)	1,308	t
製品(Product)		
プリント配線板(Printed wiring board)	688,384	m <sup>2</sup>

※出荷面積 (Shipment area)