

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: 2019/4/1~2020/3/31

Report person in charge: Ms. Pasita Sukprasert / ISO/Document & Environment Ass't GM

Report responsible: Ms. Pasita Sukprasert / ISO/Document & Environment Ass't GM

No	Theme	Aim 2019	The results	Evaluation	Aim of 2020
1	Claim environmental neighbors must be zero	0	1	×	0
2	Total electric consumption per unit (SEC) less than 42.00 kWh / m ² per month	41.00 kWh / m ²	42.68	×	41.00 kWh / m ²
3	Water Resources Consumption less than 0.67 m ³ / m ² per month	0.60 m ³ / m ²	0.64	×	0.60 m ³ / m ²
4	PCB Scrap not more than 2% per month.	2%	2.5%	×	2.35%

<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.

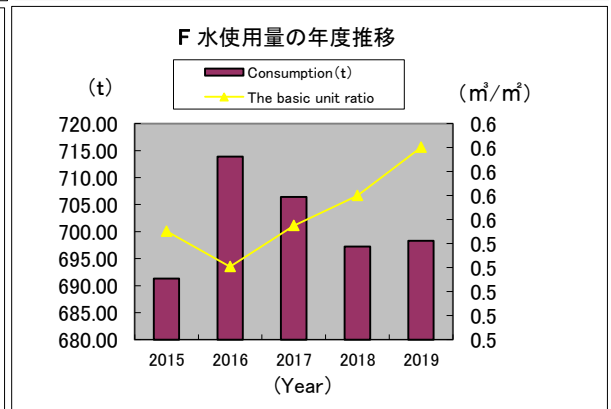
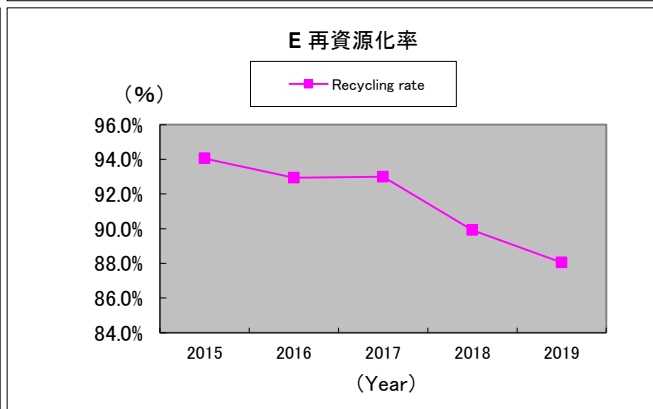
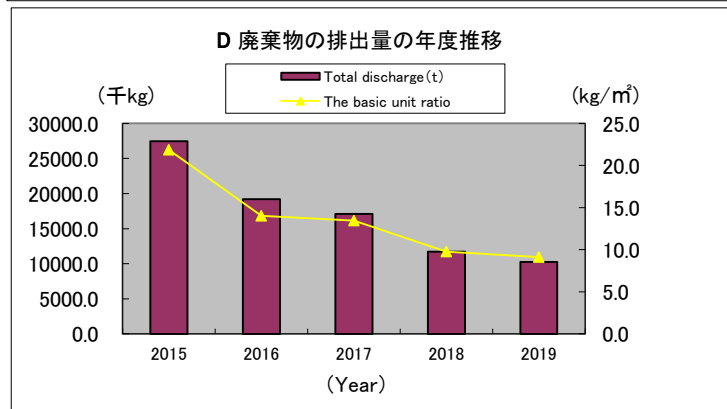
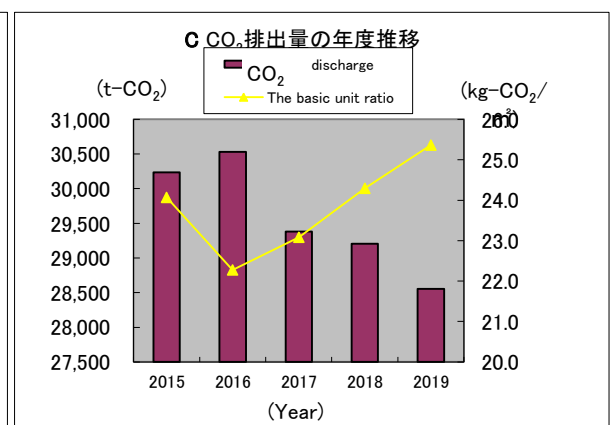
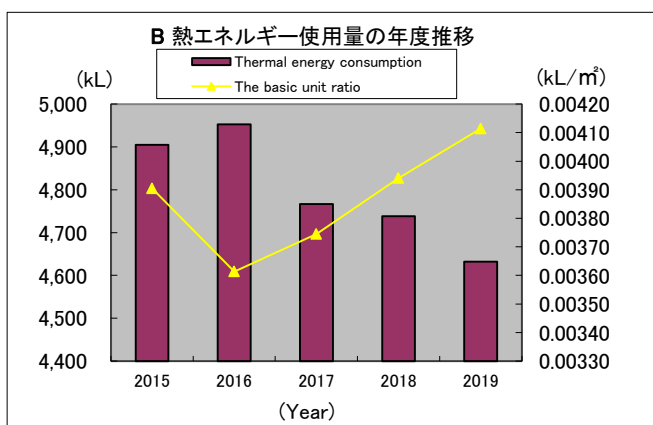
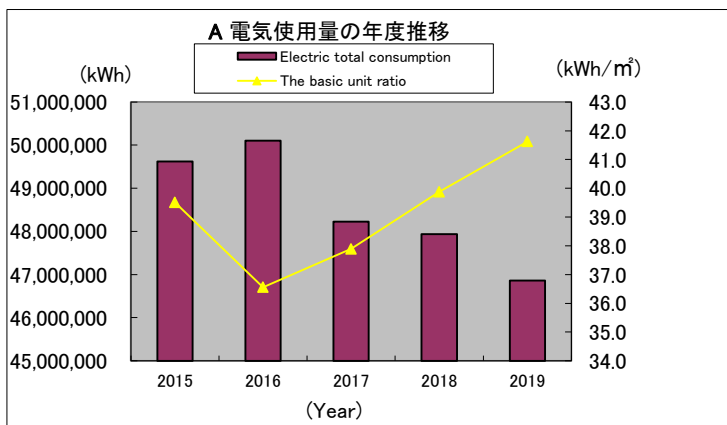
2 About aquatic resources, the use source of a river of each factory is different.

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)

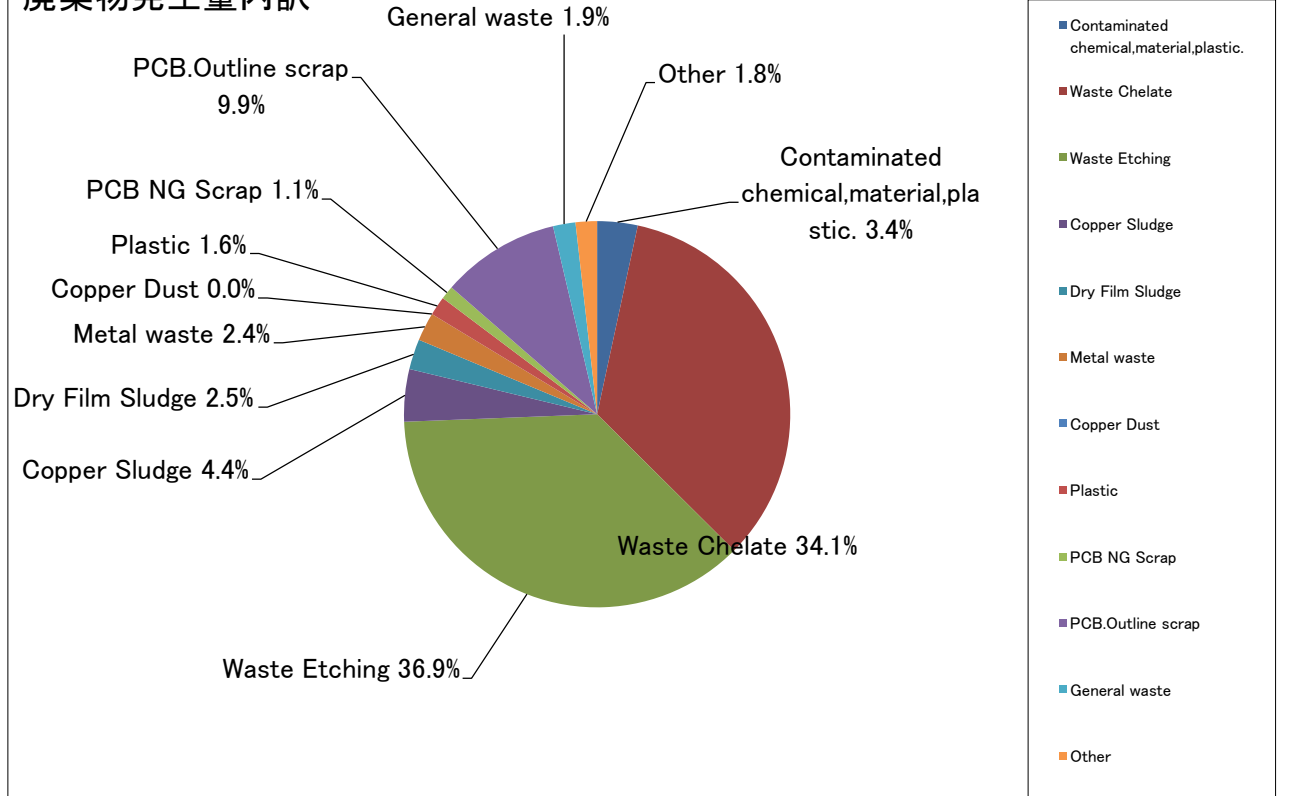
工場名 (Factory name)	エネルギー(Energy)			廃棄物(Waste)		水資源 (Aquatic resources)	水質測定結果(Water quality measurement result)						大気の実績 (The atmospheric measurement results)			
	Electric total consumption	Thermal energy consumption	CO ₂ discharge	Total discharge	Quantity of recycling	Water for industrial use	pH	BOD	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 ₂)	(t)	(t)	Consumption(千㎡)	-	mg/L	mg/L	mg/L	mg/L	mg/L	個/cm ³	Nox(ppm)	Sox(ppm)	ばいじん(mg/m ³)
Thai factory	46,863,000	4,632	28,554	10,259.27	9,032.80	698,305.00	7.95	35.42	149.83	13.92	N/A	N/A	N/A	29.3	N/A	3.45



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.	346.84	3.4%
Waste Chelate	3495.55	34.1%
Waste Etching	3788.36	36.9%
Copper Sludge	449.62	4.4%
Dry Film Sludge	260	2.5%
Metal waste	244.22	2.4%
Copper Dust	0	0.0%
Plastic	163.48	1.6%
PCB NG Scrap	116.36	1.1%
PCB.Outline scrap	1018.33	9.9%
General waste	192.66	1.9%
Other	183.87	1.8%
合計	10,259.29	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)	46,863	MWh
重油(Heavy oil)	0	kL
灯油(Kerosene)	0	kL
軽油(Light oil)	0	kL
都市ガス(Gas)	367	km ³
LPG(Liquefied natural gas)	0	km ³
資源(Resources)		
地下水(Groundwater)	0	t
上水・工水(Water supply)	698	t
基板コア材(Board Core)	971,762	m ²
段ボール(Corrugated cardboard)	191	t



OUTPUT		
大気(Atmosphere)		
CO ₂	28,553	t-CO ₂
水域(Area of the sea)		
河川(River)	0	t
下水(Sewage)	558,644	t
廃棄物(Waste)		
再資源化量(Quantity of recycling)	9,033	t
最終処分量(Quantity of last disposal)	1,226	t
製品(Product)		
プリント配線板(Printed wiring board)	811,457	m ²

※出荷面積(Shipment area)