

SIAM KUBOTA Corporation (Amata City Plant)

4.Environmental performance data (Jan. 2020 to Dec. 2020)

Used amount of energy	Crude oil equivalent KL	4,746
Used amount of water	thousand m ³	140

CO₂ emission*	tons CO ₂ e	9,618
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*CO₂ emissions from energy sources.

Air Pollutant measurement results				
Main smoke and soot generation facilities		Drying furnaces		
	Unit	Control content	Control value	Maximum measured
SOx	ppm	Concentration control	500	<1.3
NOx	ppm	Concentration control	200	<3.8
Particulate	mg/m ³ N	Concentration control	400	10

Amount of discharge water	thousand m ³	128	
Amount of pollutant in discharge water	COD	tons	23
	Nitrogen	tons	-
	Phosphorus	tons	-

Water pollutant measurement results				
		unit	Control value	Maximum measured
Public water areas	pH	-	-	-
	BOD	mg/L	-	-
	COD	mg/L	-	-
	Nitrogen	mg/L	-	-
	Phosphorus	mg/L	-	-
	Hexavalent chromium	mg/L	-	-
	Lead	mg/L	-	-
	COD, total emission control	kg/day	-	-
	Nitrogen, total emission control	kg/day	-	-
	Phosphorus, total emission control	kg/day	-	-
Sewerage lines	pH	-	5.5 ~ 9.0	6.3, 8.2
	BOD	mg/L	500	61
	COD	mg/L	750	285
	SS	mg/L	200	72

Waste discharge	tons	738
Recycling ratio	%	100.0%

VOC emission	tons	77
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5.Environmental Topics

<p>Tackling climate change</p> <ol style="list-style-type: none"> 1. High efficiency chiller 2. Reduce natural gas for oven 3. Turn off machine on break time <p>Working towards a recycling-based society</p> <ol style="list-style-type: none"> 1. Reduce chemical consumption for WWT 2. Recycle organic waste to fertilizer <p>Conserving water resources</p> <ol style="list-style-type: none"> 1. Brine Utilization for gardening 2. Install water saving type of water tap <p>Controlling chemical substances</p> <ol style="list-style-type: none"> 1. Cancel xylene in Thinner Orga 100-600 <p>Improving operation</p> <ol style="list-style-type: none"> 1. Improve SHE Google site 2. Install GSM Alarm 3. Install oil sensor at guardhouse No.2

Tackling climate change

High efficiency chiller



Result
 Energy Saving 97,692 kWh/Y
 CO₂ Reduction 6 Ton CO₂/Y

Reduce natural gas for oven



Result
 Energy Saving 12,489 m³/Y
 CO₂ Reduction 28 Ton CO₂/Y

Turn off machine on break time

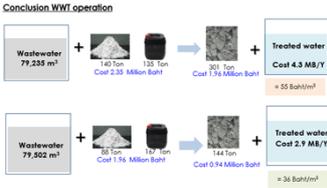


Result
 Energy Saving 98,000 kWh/Y
 CO₂ Reduction 47 Ton CO₂/Y

Working towards a recycling-based society

Reduce chemical consumption at WWT

Conclusion WWT operation



Result
 Waste Reduction 157 Ton/Y

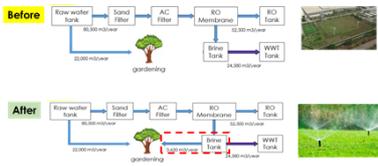
Recycle organic waste to fertilizer



Result
 Waste Reduction 12 Ton/Y

Conserving water resources

Brine Utilization for gardening



Result
 Water Saving 3,620 m³/Y

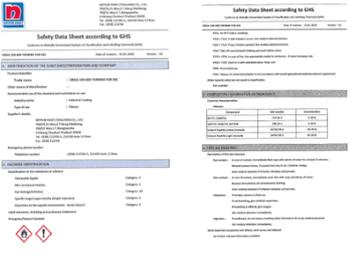
Install water saving type of water tap



Result
 Water Saving 720 m³/Y

Controlling chemical substances

Cancel xylene in Thinner Orga 100-600



Result
VOC Reduction 2,600 kg/Y

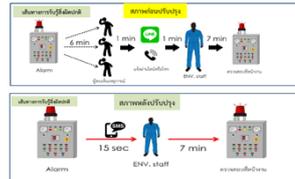
Other Project

Improve SHE Google site



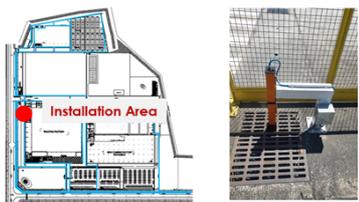
Result
Increase communication 1 channel
Reduce paper 3,700 sheet/Y
Reduce working time 17,000 minute/Y

Install GSM Alarm



Result
Improve problem response 50 %
Location (15 min to 7 min) all area

Install oil sensor at guardhouse No.2



Result
Guardhouse No.2 1 area

6.Environmental Communication

1. AMATA BEST Waste Management Award
2. Green Industry Level 4
3. ECO FACTORY
4. 3Rs award
5. Zero Waste Achievement Award
6. 3Rs+ Award

AMATA BEST Waste Management Award



Organizer : Amata Facility
Event Name : AMATA BEST Waste Management Award
Content : Encourage company to implement efficient waste management by adopting the 3R rule: Reduce, Reuse, Recycle.
Place : Chonburi province
Date : 16-Dec-19
Participants : 27-May-20

Green Industry Level 4



Organizer : Department of industrial works
Event Name : Green Industry Level 4
Content : Evaluate company about environmental management and social responsibility
Place : Chonburi province
Date : 21-Sep-20

ECO FACTORY



Organizer : The Federation of Thai Industries
Event Name : ECO FACTORY
Content : Evaluate company about environmental management and social responsibility
Place : Chonburi province
Date : 26-Aug-20

3Rs Award



Organizer : Department of industrial works
Event Name : 3Rs Award
Content : Evaluate waste management related to 3Rs concept
Place : Chonburi province
Date : 09-Dec-20

Zero Waste Achievement Award



Organizer : Department of industrial works
Event Name : Zero waste Achievement Award
Content : Evaluate no zero landfill method of waste disposal
Place : Chonburi province
Date : 09-Dec-20

3Rs+ Award



Organizer : Department of industrial works
Event Name : 3Rs+ Award
Content : Evaluate for continuous improvement project about waste
Place : Chonburi province
Date : 09-Dec-20