

P.T. Kubota Indonesia

1. Outline

Address	Taman Industri Bukit Semarang Baru(BSB) Blok D.1 Kav.8 Kel. Jatibarang - Kec. Mijen - Kota Semarang ; Indonesia
Number of employees	364
Site area	74,000 m ²
Establishment day	Jul-1973
ISO14001 certification date	10 Feb 2006



2. Products

Horizontal Diesel Engine



3. Environmental policy

Producing , serving , and promised to continuously improve customer satisfaction and environmental pollution prevention performance according to expectations of stakeholder and regulatory requirements and other requirements appropriate with Quality Management System ISO 9001:2008 and Environmental Management System ISO 14001:2004

4. Environmental performance data (Jan. 2016 to Dec. 2016)

Used amount of energy	Crude oil equivalent KL	1,162
Used amount of water	thousand m ³	22

CO₂ emission*	tons CO ₂ e	3,257
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*CO₂ emissions from energy sources.

Air Pollutant measurement results				
Main smoke and soot generation facilities		Genset		
	Unit	Control content	Control value	Maximum measured
SOx	mg/m ³	Concentration control	800	26
NOx	mg/m ³	Concentration control	1000	306
Particulate	mg/m ³	Concentration control	350	72

Amount of discharge water	thousand m ³	19	
Amount of pollutant in discharge water	COD	kg	748
	Nitrogen	kg	-
	Phosphorus	kg	-

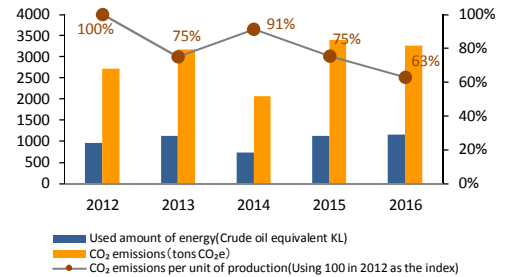
Water pollutant measurement results				
		unit	Control value	Maximum measured
Public water areas	pH	-	6.0 ~ 9.0	6.8 , 8.2
	BOD	mg/L	50	30
	COD	mg/L	100	82
	Nitrogen	mg/L	-	-
	Phosphorus	mg/L	-	-
	Hexavalent chromium	mg/L	0.1	0.01
	Lead	mg/L	0.1	0.03
	COD, total emission control	kg/day	-	-
	Nitrogen, total emission control	kg/day	-	-
	Phosphorus, total emission control	kg/day	-	-
Sewerage lines	SS	mg/L	100	34
	pH	mg/L	-	-
	BOD	mg/L	-	-
	COD	mg/L	-	-

Waste discharge	tons	55
Recycling ratio	%	81.9%

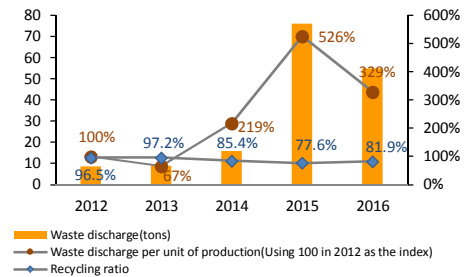
VOC emission*	tons	16
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*We have started using paints and thinners from 2015.

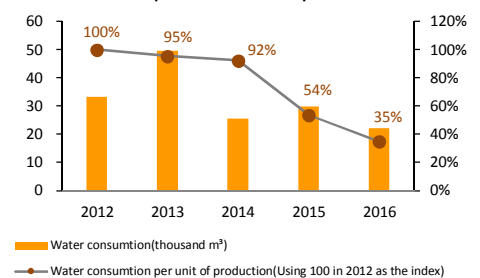
Graph1. Energy & CO₂ emissions



Graph2. Waste discharge & Recycling ratio



Graph3. Water consumption



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5.Environmental Communication

5-1.Collaboration with government program in Semarang City to plant the mangrove (5.000 trees)

Date: 2016/10/29

Location: Banjir Kanal Barat River in Semarang City

[before]



[after]



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5-2. Energy saving educations to elementary school near PTKI factory (target = 2 school), Change classrom lamp with LED

Date: 2016/6/10, 12/10

Location: Jatibarang Elementary School 01 & 02

- result:
1. Change with LED lamp at school = 100 pcs
 2. Distribution to the student to change their home lamp = 409 pcs
 3. Give student scholarship = 20 students

[before]



[after]



[Ceremonial to give an LED lamp for school and students]



[Scholarship for students]



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5-2. Energy saving educations to elementary school near PTKI factory (target = 2 school), Change classrom lamp with LED (Continuation)
[Give an LED lamp 7 Watt for each student to change their home lamps (more bright and reduce the electric)]



5-2. Planting the trees in Gedong Songo temple : 50 trees and give a trash can near the locations.

Date: 2016/6/5

Location: Gedong Songo Temples

