

# P.T. Kubota Indonesia

## 1. Outline

<b>Address</b>	Taman Industri Bukit Semarang Baru(BSB) Blok D.1 Kav.8, Kel. Jatibarang - Kec. Mijen - Kota Semarang ; Indonesia
<b>Number of employees</b>	362
<b>Site area</b>	74,000 m <sup>2</sup>
<b>Establishment day</b>	Jul-1973
<b>ISO14001 certification date</b>	10 Feb 2006
<b>Site overview</b>	Manufacturing and sales of small diesel engines



## 2. Products

### Horizontal Diesel Engine



## 3. Environmental policy

As an internal combustion motor manufacturer committed to exceed customer and stakeholder expectations and improve environmental protection performance through:

- Creation of reliable and high quality products and services
- Effective, efficient and no impact on environmental pollution
- Fulfillment of regulatory requirements and other requirements and
- Make continuous improvements to the effectiveness of quality and environmental management systems

## 4. Environmental performance data (Jan. 2017 to Dec. 2017)

<b>Used amount of energy</b>	Crude oil equivalent KL	986
<b>Used amount of water</b>	thousand m <sup>3</sup>	16

<b>CO<sub>2</sub> emission*</b>	tons CO <sub>2</sub> e	2,755
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\*CO<sub>2</sub> 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 <sup>3</sup>	Concentration control	800	9
NOx	mg/m <sup>3</sup>	Concentration control	1000	193
Particulate	mg/m <sup>3</sup>	Concentration control	350	2

<b>Amount of discharge water</b>	thousand m <sup>3</sup>	11	
<b>Amount of pollutant in discharge water</b>	COD	kg	460
	Nitrogen	kg	-
	Phosphorus	kg	-

Water pollutant measurement results				
		unit	Control value	Maximum measured
Public water areas	pH	-	6.0 ~ 9.0	6.95, 8.0
	BOD	mg/L	50	25
	COD	mg/L	100	80
	Nitrogen	mg/L	-	-
	Phosphorus	mg/L	-	-
	Hexavalent chromium	mg/L	0.1	0.01
	Lead	mg/L	0.1	0.04
	COD, total emission control	kg/day	-	-
	Nitrogen, total emission control	kg/day	-	-
	Phosphorus, total emission control	kg/day	-	-
Sewerage lines	SS	mg/L	100	32
	pH	mg/L	-	-
	BOD	mg/L	-	-
	COD	mg/L	-	-

<b>Waste discharge</b>	tons	56
<b>Recycling ratio</b>	%	77.5%

<b>VOC emission*</b>	tons	14
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\*We have started using paints and thinners from 2015.

## 5. Environmental Topics

1. Waste reduction: Reuse karton box, bubbles plastics for shipment parts, recycle water to support production, returnable pallet to vendor, reused paper to fotocopy
2. Chemical Reduction : Change some coolant with water base,
3. Energy saving: Change LED lighting, automatic off for office air conditioning, make a separate compressor in assembling, modify instalation of chemical Ca(OH)<sub>2</sub> stop on working holiday
4. Wastewater management: Change clean water to support painting booth with recycle water from WWT, modify with separator oil pit in machining to reduce oil content.

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## 6.Environmental Communication

### 6-1.Collaboration with dealers PTKI on "Dealers Meeting " in Bali, 117 participants & planting 200 units

Date: 2017/9/10

Location: Planting Kayu Putih Tress in Gunung Batur Bali



### 6-2.Support Adiwiyata Awards to elementary schools ( Jatibarang 2 & Wonolopo 1) with planting the trees, mini garden and set up a small hidroponic garden



### 6-3. Planting mangrove step 2 program in Mangunharjo joint with Japanes Studenst College, 80 participants & planting 5000 mangroves

Location: Mangunharjo Beach Semarang



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## 6-4. Energy saving education to elementary school near PTKI factory (2 schools), change classroom lamp with LED

Date: 2017/10/28

Location: Jatibarang Elementary School 03 & Mi Miftahul Jannah

- Result:
1. Change with LED lamp at classroom = 125 pcs
  2. Distribution to the students to change their home lamp = 295 pcs
  3. Give student scholarship = 22 students

[Before]



[After]



[Scholarship for students] Scholarship for 22 student SD Jatibarang 03 & MI Miftahul Janah



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### 6-5.Waste treatment education by donating eco friendly bags to aim every student can bring inorganic waste from their homes and collected in Garbage Bank

Date: 2017/08/22

Location: SD Miftahul Jannah & SD Jatibarang 03

Result: Amount of waste until Dec 2017 = 612.1 Kg



### 6-6.Donation of a composting waste container to SD Jatibarang 2 & SD Wonolopo 1 ( 1 unit for each school)

Date: 2017/08/22

Location: SD Jatibarang 02 & SD Wonolopo 01

