

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 |
|---------------------------------|------------------------|-------|

*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 |

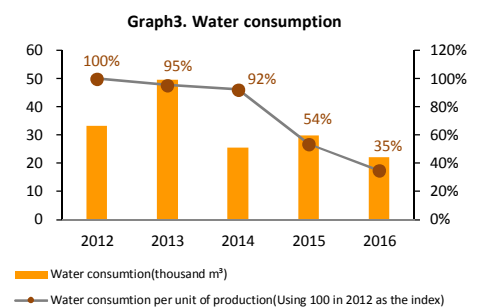
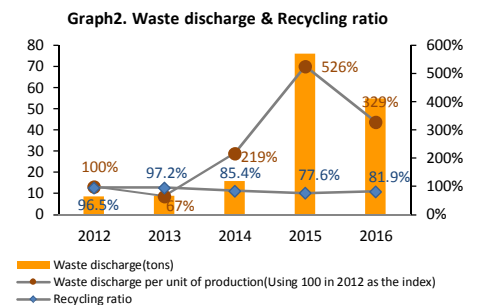
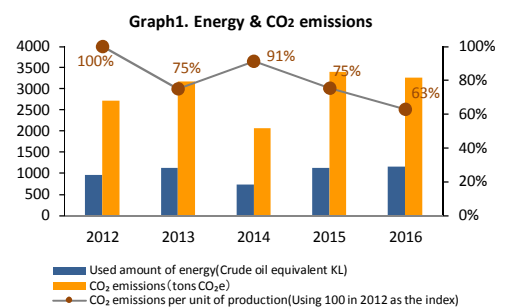
| | | | |
|---|-------------------------|----|-----|
| Amount of discharge water | thousand m ³ | 19 | |
| Amount of pollutant in discharge water | COD | kg | 748 |
| | Nitrogen | kg | - |
| | Phosphorus | kg | - |

| 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 |
|----------------------|------|----|

*We have started using paints and thinners from 2015.



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5.Environmental Communication

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

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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5-3. Energy saving educations to elementary school near PTKI factory (target = 2 school), Change classrom lamp with LED (continued from page 3)
[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

