

# Kubota Engine Thailand (KET)

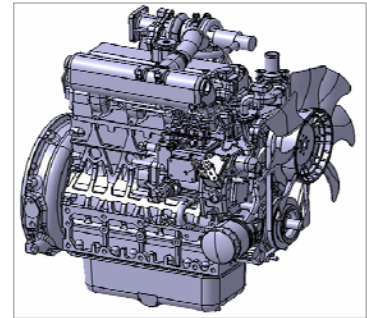
## 1. Outline

<b>Address</b>	No.360 Moo 3, T.Khao Hinson, A.Phanomsarakarm Chachoengsao, 24120 Thailand	
<b>Number of employees</b>	400	
<b>Site area</b>	75,856 m <sup>2</sup>	
<b>Establishment day</b>	24-Feb-11	
<b>ISO14001 certification date</b>	3-Jul-2015	



## 2. Products

### Main products



Vertical type Diesel Engines

## 3. Environmental policy

1. The Kubota Group aspires to create a society where sustainable development is possible on a global scale.
2. The Kubota Group contributes to the conservation of global and local environments through its environmentally friendly operations, products, and technologies.  
(KET Environmental policy please see below)

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

<b>Used amount of energy</b>	Crude oil equivalent KL	2,176
<b>Used amount of water</b>	thousand m <sup>3</sup>	23
<b>CO<sub>2</sub> emission*</b>	tons CO <sub>2</sub> e	4,643

\*CO<sub>2</sub> emissions from energy sources.

Air Pollutant measurement results				
Main smoke and soot generation facilities		Heating furnaces		
	Unit	Control content	Control value	Maximum measured
SOx	ppm	Concentration control	950	< 2
NOx	ppm	Concentration control	200	7
Particulate	mg/m <sup>3</sup>	Concentration control	240	7

<b>Amount of discharge water</b>	thousand m <sup>3</sup>	No external water discharge	
<b>Amount of pollutant in discharge water</b>	COD	kg	-
	Nitrogen	kg	-
	Phosphorus	kg	-

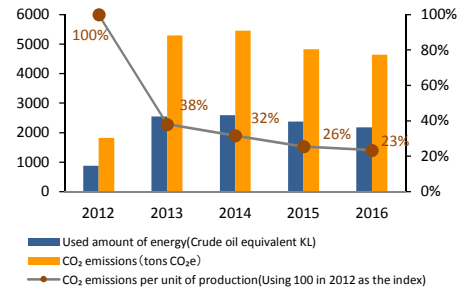
Water pollutant measurement results					
	unit	Control value	Maximum measured		
Treated water* (Recycled)	pH	-	5.5 ~ 9.0	6.9 , 8.1	
	BOD	mg/L	< 20	3	
	COD	mg/L	<120	58	
	Nitrogen	mg/L	< 100	2	
	Phosphorus	mg/L	-	17	
	Hexavalent chromium	mg/L	< 0.25	<0.10	
	Lead	mg/L	< 0.2	<0.05	
	COD, total emission control	kg/day	-	2	
	Nitrogen, total emission control	kg/day	-	0.1	
	Phosphorus, total emission control	kg/day	-	0.6	
	SS	mg/L	< 50	2	

\*No external water discharge

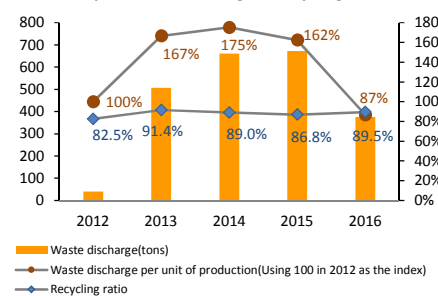
<b>Waste discharge</b>	tons	375
<b>Recycling ratio</b>	%	89.5%

<b>VOC emission</b>	tons	2
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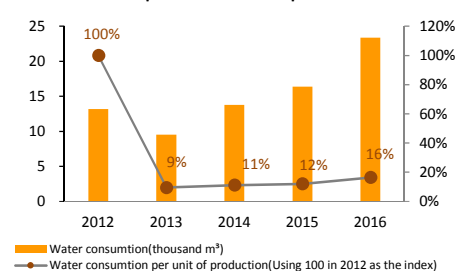
Graph1. Energy & CO<sub>2</sub> emissions



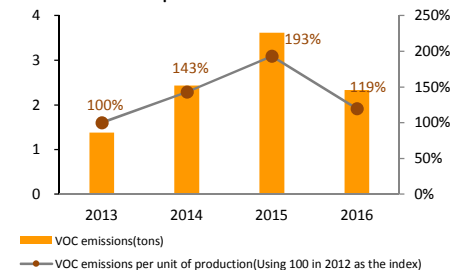
Graph2. Waste discharge & Recycling ratio



Graph3. Water consumption



Graph4. VOC emissions



# Kubota Engine Thailand (KET)

## 5.Environmental Communication

### 1. Safety Environment & Energy Week 2017



### 2. Environmental & CSR activity in Environmental Month 2017





## Kubota Engine Thailand (KET)

### 2. Environmental & CSR activity in Environmental Month 2017 (continuation)



### Environmental, Safety and Occupational Health Policy

KUBOTA Engine (Thailand) Co. Ltd (KET), a leading manufacturer of diesel engines for agricultural and industrial machinery recognizes the importance of environmental protection as well as the occupational health and safety of employees, local communities and society overall. The company, therefore, is committed to operate with the environment, safety and employees health in mind. The company has set up an Environmental Management System (ISO 14001:2004) and Occupational Health and Safety Management Systems (OHSAS 18001:2007) policies to support this operation as detailed in the following.

1. KET is committed to prevent accidents and occupational diseases by improving working environments which present an unacceptable risk of harm and strictly complies with the company's safety regulations.
2. KET is responsible to society by considering environmental impacts, which are caused by human activities, products including energy saving, as well as the reuse of resources, in its operations. In addition it will continue to protect the environment and prevent pollution.
3. KET has encouraged and supported employees in all departments to create a workplace in accordance with the 5S principles to improve operation, safety, and equipment maintenance as well as using an appropriate protective equipment to reduce accidents and prevent occupational diseases.
4. KET continues training activities to educate and create awareness on environmental, safety and occupational health to employees.
5. KET will continue to comply with legal and regulatory requirements related to the environment, safety and occupational health.
6. KET communicates to all employees about its environmental, safety and occupational health policy, including information on the implementation.
7. KET communicates to interested parties about its environment, safety and occupational health policy and accepts comments and complains.
8. KET continues to review objectives, targets, and results of overall operation on environmental, safety and occupational health for better improvement.

This is a responsibility of all employees to comply with.