Data on KUBOTA Group Overseas Production Sites 2020

Siam Kubota Metal Technology (SKMT)

1.Outline

Address	304 Industrial Park 2, 359 Moo 3 Khao Hinson Phanom Sarakham, Chachoengsao, Thailand
Number of employees	508 (Dec, 2019)
Site area	189095 ㎡
Establishment day	2008/12/25
ISO14001 certification date	2019/8/11
Site overview	Manufacturing of casting components for engines and tractors

2.Products

Main products







3 .Environmental policy

(Revised 04 : 5 March 2018)

1. Determine, monitor, review and take appropriate action for
   - external and internal issues
   - needs and expectations of interested parties

   which effect to company's purpose, strategic direction and ability to achieve the intended outcomes of EMS.
2. SKMT will comply with related Environmental law and regulation. Especially strictly comply with Environmental pollution management. Including fulfil any compliance obligations.
3. SKMT will establish, maintain and continual improvement of Environmental objective-target and standard.
4. SKMT will promote awareness and efficiency using of energy and natural resource.
5. SKMT will promote the environment technology developing to improve the efficiency continuously.
6. SKMT will promote environmental awareness to employee including protect of the environment and prevent pollution which may impact on environment.
7. SKMT will promote social responsibility awareness to employee by conduct environmental activities with the community.
8. SKMT will create communication channels with community.
   To make transparency disclosure of pollution management information.
   Including the channels for receive environmental suggestion and complaint.

นโยบายสิ่งแวดล้อม

Environmental Policy

บริษัท สยามคูโบต้าเมทัลเทคโนโลยี จำกัด (SKMT)

ประกอบกิจการหล่อและเหลาชิ้นส่วนเครื่องจักรกลการเกษตรและเครื่องยนต์

Siam Kubota Metal Technology Co., Ltd. (SKMT)

manufacture of metal casting for agricultural part

Located at 359, 304 Industrial Park 2, 304 Bypass Panomsarakham Road, Moo 3 Khao Hinson, Phanomsarakham, Chachoengsao. The company commit to operate under "*the basic direction of Corporate Environmental Management prepared for the Kubota group, three initiatives – Stopping Climate Change, Working toward a Recycling-based Society, Controlling Chemical Substances*" including protection of the environment and pollution prevention, lead up social responsibility awareness. By applying the principles of Environmental Good Governance in operation as following.

1. กำหนด ติดตาม ทบทวน และดำเนินการอย่างเหมาะสมกับ
   - ประเด็นภายนอกและประเด็นภายใน
   - ความต้องการและความคาดหวังของผู้มีส่วนได้ส่วนเสีย

   ที่มีผลต่อจุดประสงค์ ทิศทางกลยุทธ์ และความสามารถในการบรรลุผลลัพธ์ตามระบบการจัดการสิ่งแวดล้อมของบริษัท

   Determine, monitor, review and take appropriate action for
   - external and internal issues
   - needs and expectations of interested parties

   which effect to company's purpose, strategic direction and ability to achieve the intended outcomes of EMS.
2. SKMT จะปฏิบัติตามกฎหมายและข้อกำหนดต่าง ๆ ด้านสิ่งแวดล้อมที่เกี่ยวข้อง โดยเฉพาะด้านการจัดการมลภาวะสิ่งแวดล้อมอย่างเคร่งครัด รวมถึงการบรรลุข้อผูกพันที่มีกฎหมายต่าง ๆ ที่ต้องปฏิบัติ

   SKMT will comply with related Environmental law and regulation. Especially strictly comply with Environmental pollution management. Including fulfil any compliance obligations.
3. SKMT จะจัดทำ ดำเนินไว้ และปรับปรุงอย่างต่อเนื่อง ซึ่งวัตถุประสงค์-เป้าหมาย และมาตรฐานด้านสิ่งแวดล้อม

   SKMT will establish, maintain and continual improvement of Environmental objective-target and standard.
4. SKMT จะส่งเสริมความตระหนักและกระตุ้นการใช้พลังงานและทรัพยากรธรรมชาติอย่างมีประสิทธิภาพ

   SKMT will promote awareness and efficiency using of energy and natural resource.
5. SKMT จะส่งเสริมการพัฒนาเทคโนโลยีทางด้านสิ่งแวดล้อม ให้มีประสิทธิภาพที่ดีอย่างต่อเนื่อง

   SKMT will promote the environment technology developing to improve the efficiency continuously.
6. SKMT จะสร้างจิตสำนึกและปลูกฝังให้พนักงานทุกคนมีความตระหนักถึงสิ่งแวดล้อม รวมถึงป้องกันสิ่งแวดล้อมและหลีกเลี่ยงมลภาวะที่ก่อให้เกิดปัญหาต่อสิ่งแวดล้อม

   SKMT will promote environmental awareness to employee including protect of the environment and prevent pollution which may impact on environment.
7. SKMT จะสร้างจิตสำนึกในการรับผิดชอบต่อสังคมผ่านทางการดำเนินกิจกรรมด้านสิ่งแวดล้อมต่าง ๆ ร่วมกับชุมชน

   SKMT will promote social responsibility awareness to employee by conduct environmental activities with the community.
8. SKMT จะสร้างช่องทางในการสื่อสารกับชุมชน เพื่อเปิดเผยข้อมูลการจัดการมลภาวะอย่างโปร่งใส รวมถึงช่องทางรับฟังข้อคิดเห็นและข้อร้องเรียนด้านสิ่งแวดล้อม

   SKMT will create communication channels with community. To make transparency disclosure of pollution management information. Including the channels for receive environmental suggestion and complaint.

(Mr.Wachara Chewahsopong)
Vice President
Rev.04 , 5/Mar/2018

(Mr.Takehisa Uehara)
President
Rev.04 , 5/Mar/2018

Data on KUBOTA Group Overseas Production Sites 2020

Siam Kubota Metal Technology (SKMT)

4.Environmental performance data (Jan. 2019 to Dec. 2019)

Used amount of energy	Crude oil equivalent KL	12,749
Used amount of water	thousand m^3	55

CO_2 emission*	tons CO_2e	23,947

*CO_2 emissions from energy sources.

Air Pollutant measurement results

Main smoke and soot generation facilities		Electric Furnaces								
		DC Melting			DC Molding, Finishing			WS Core making		
	Unit	Control content	Control value	Maximum measured	Control content	Control value	Maximum measured	Control content	Control value	Maximum measured
SOx	ppm	Concentration control	500	<0.1	Concentration control	500	<0.1	Concentration control	60	<0.1
NOx	ppm	Concentration control	180	<1.0	Concentration control	180	<1.0	Concentration control	180	<1.0
Particulate	mg/m^3	Concentration control	5	1.1	Concentration control	5	1.2	Concentration control	2	1.8

Amount of discharge water		thousand m^3	No water discharge out of factory
Amount of pollutant in discharge water	COD	kg	-
	Nitrogen	kg	-
	Phosphorus	kg	-

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	-	-
Water after treatment *	pH	-	5.5 ~ 9.0	7.7, 8.1
	BOD	mg/L	≤ 20	17
	COD	mg/L	≤ 120	109
	SS	mg/L	≤ 50	33
	Temperature	℃	≤ 40	34
	Oil & Grease	mg/L	≤ 5	≤2
	Nitrogen	mg/L	≤ 100	61

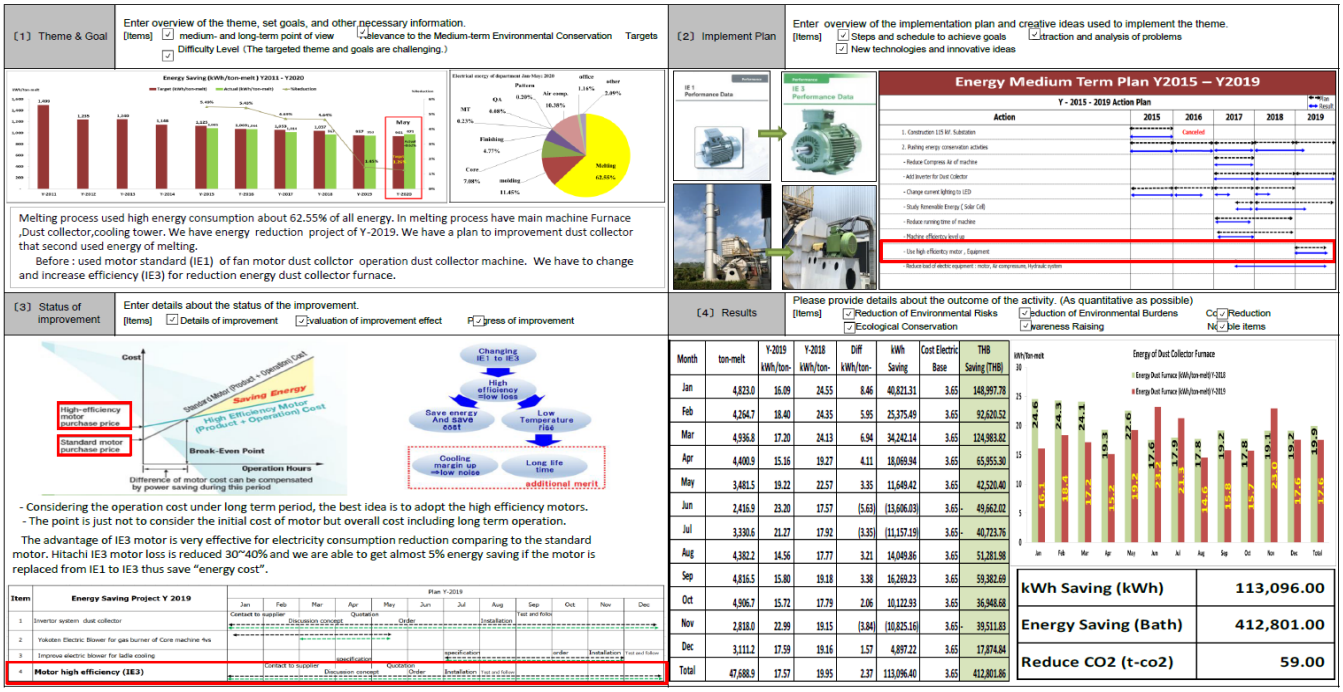
*No external water discharge

Waste discharge	tons	14,025
Recycling ratio	%	93.8%

Siam Kubota Metal Technology (SKMT)

5.Environmental Topics

> REDUCE ENERGY - DUST COLLECTOR FURNACE (Motor IE3)



Month	ton-melt	Y-2019 kWh/ton-	Y-2018 kWh/ton-	Diff kWh/ton-	kWh Saving	Cost Electric Base	THB Saving (THB)
Jan	4,823.0	16.09	24.55	8.46	40,821.31	3.65	148,997.78
Feb	4,264.7	18.40	24.35	5.95	25,375.49	3.65	92,620.52
Mar	4,936.8	17.20	24.13	6.94	34,242.14	3.65	124,983.82
Apr	4,400.9	15.16	19.27	4.11	18,069.94	3.65	65,955.30
May	3,481.5	19.22	22.57	3.35	11,649.42	3.65	42,520.40
Jun	2,416.9	23.20	17.57	(5.63)	(13,606.03)	3.65	49,662.02
Jul	3,330.6	21.27	17.92	(3.35)	(11,157.19)	3.65	40,723.76
Aug	4,382.2	14.56	17.77	3.21	14,049.86	3.65	51,281.98
Sep	4,816.5	15.80	19.18	3.38	16,269.23	3.65	59,382.69
Oct	4,906.7	15.72	17.79	2.06	10,122.93	3.65	36,948.68
Nov	2,818.0	22.99	19.15	(3.84)	(10,825.16)	3.65	39,511.83
Dec	3,111.2	17.59	19.16	1.57	4,897.22	3.65	17,874.84
Total	47,688.9	17.57	19.95	2.37	113,096.40	3.65	412,801.86

Item	Energy Saving Project Y 2019
1	Invertor system dust collector
2	Yokoten Electric Blower for gas burner of Core machine #4
3	Improva electric blower for ladle cooling
4	**Motor high efficiency (IE3)**

> REDUCE WASTE

In 2019, SKMT which generate a large amount of waste, achieved areduction of approximately 12,670 tons in the amount of discharged waste through conversion of casting sand to valuable resources. The activity was introduced on KUBOTA REPORT2020.

Measures to Reduce Waste

The Kubota Group has established its Medium-Term Environmental Conservation Targets 2020 (p.36) and is working on the reduction of waste discharge from its business sites and the improvement of the recycling ratio. The Group has been promoting various measures, such as the thorough separation of waste according to the type and disposal method of waste, the introduction of returnable packaging materials, and shared waste recycling between sites. The Group is also committed to the reduction of hazardous waste through ensuring thorough monitoring and management thereof.

In RY2019, cast iron production sites, which generate a large amount of waste, achieved a reduction of approximately 12,000 tons in the amount of discharged waste through conversion of casting sand to valuable resources. Machinery production sites continued working to reduce the amount of sludge generated in the painting booth as well as volumes of waste oil and oil-containing wastewater. Meanwhile, as measures to reduce disposable plastics, we introduced initiatives at certain worksites to withdraw the use of disposable tableware in the employee cafeteria and reduce the issue of plastic carrier bags in on-site stores.

Conversion of waste casting sand to valuable resources led to a major reduction in the amount of waste discharged.
SIAM KUBOTA Metal Technology Co., Ltd. (Thailand)

As a result of the efforts toward achieving the Medium-Term Environmental Conservation Targets 2020 for waste reduction, global production sites achieved a reduction of 15,800 tons of waste in RY2019 compared with the case where countermeasures were not implemented from the base year (RY2014). The economic effects of these measures reached 52 million yen compared to RY2014. Waste discharge per unit of production in RY2019 improved by 21.4% compared to RY2014. The recycling ratio was 99.7% at production sites in Japan and 91.8% at production sites overseas, both achieving the targets of the Medium-Term Environmental Conservation Targets 2020.

Moreover, production sites in Japan have raised the utilization rate of electronic manifests to 96.3%, enabling real-time assessment of the reduction effects. We will continue to promote the reduction of waste through promoting sharing of good reduction practices and visualization of waste by utilizing electronic manifests.

Siam Kubota Metal Technology (SKMT)

> Tree planting activities around the site on June, 2019



> Waste collect around the site on June, 2019 (World Environment Day)




> Release fish to the river with the EIA Committee and commuinty at DON KHEE LEK canal on Jun 27, 2019


> Planting trees at Don khee lek canal with the EIA Committee and commuinty on Jun 27, 2019



> Planting trees and improving plant protection (Tree planting and make fence around the tree for input leaf.)
at BAN MOUNGPRONG SUB DISTRICT HEALTH PROMOTION HOSPITAL on Jun 27,2019






> Planting trees for a beautiful road on Sep 13,2019(Organize by 304 Industrial Park II)



Data on KUBOTA Group Overseas Production Sites 2020

Siam Kubota Metal Technology (SKMT)

> Participated KUBOTA Environmental Award and KUBOTA Eco-Challenge

>> KUBOTA Environmental Award

Kubota

Encouragement Award
(Production division)

theme : Reduce waste to landfill by reused and recycling

SIAM KUBOTA Metal Technology Co, Ltd.
Safety & Environment
Mr. Chooyot Chalermchaisitkul

This award is bestowed on you in recognition of the great contribution you have made to the KUBOTA Group's environmental conservation activities.

June 1, 2019

M. Kimata

Masatoshi Kimata
President and Representative Director
KUBOTA Corporation

Kubota

Effort Award
(Production division)

theme : Reduce electric energy consumption.

SIAM KUBOTA Metal Technology Co, Ltd.
MFG Eng.
Mr. Norachot Pinmanee

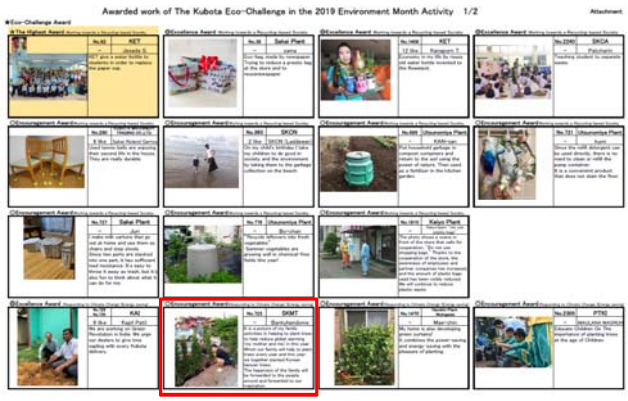
This award is bestowed on you in recognition of the great contribution you have made to the KUBOTA Group's environmental conservation activities.

June 1, 2019

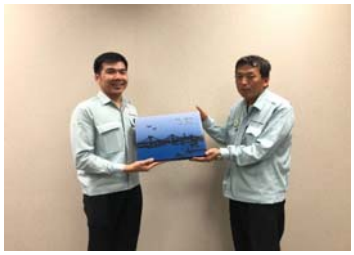
M. Kimata

Masatoshi Kimata
President and Representative Director
KUBOTA Corporation

>> KUBOTA Eco-Challenge



Awarded work of The Kubota Eco-Challenge in the 2019 Environment Month Activity 1/2



Encourangment award

Theme : Responding to climate change (Energy saving)

> Environmental awareness education to school students participated 1 schools near by SKMT on Jun 27, 2019

> EIA Committee Meeting at SKMT

EIA Committee Meeting at SKMT (2 times/Yr.)