

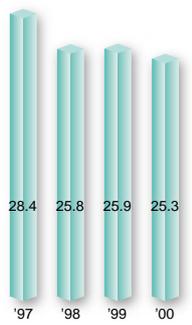
Environmental Management

Total image of environmental load

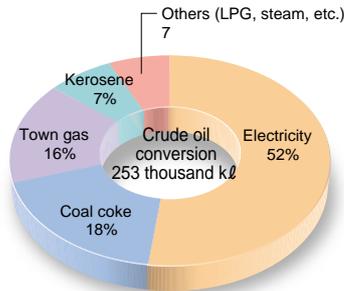
We at Kubota develop business widely, manufacturing various kinds of products. Total image of our company-wide environmental load are shown in this section.

INPUT

Energy consumption (crude oil conversion : ten thousand kℓ)



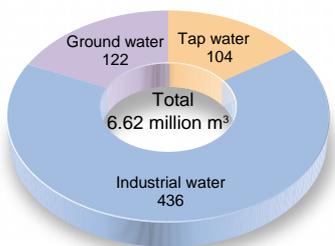
Energy consumption by type of energy



Water intake (ten thousand m³)

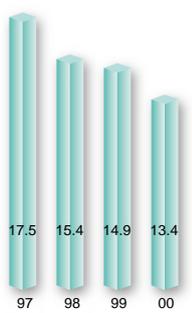


Breakdown of water intake

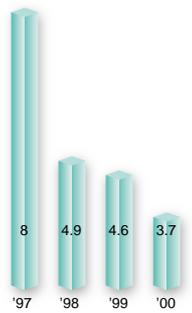


OUTPUT

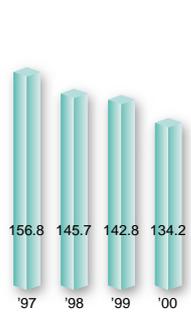
Amount of COD pollution load (ton)



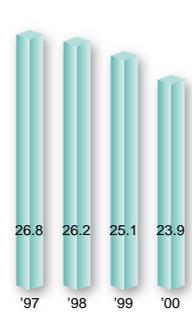
Treatment and disposal amount of industrial wastes (ten thousand ton)



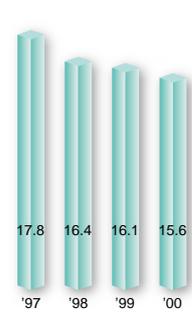
Total amount of NOx emission (ton)



Total amount of SOx emission (ton)



Total amount of carbon dioxide emission (ten thousand ton-C)



Environmental audit

Environmental audit is one of the indispensable functions in order to check voluntarily the environmental impact by corporate activities, and in order to improve the environmental management activities.

At Kubota, we started environmental audit, Central Pollution Patrol, in 1973. We changed our system into the system based on ISO 14001 standard, and enhanced the audit in 1994.

We have been suspending the audit by head office in order to promote ISO14001 activities at each plant. All of our plants acquired ISO14001 certificate by the end of fiscal 2000. So we aim at improved audit to find environmental risk, and to solve the problems by the site-oriented activities, spreading it on the whole Kubota group.

Formation of environmental audit evaluation standards

Environmental audit area	No of items checked
Kubota Environmental Management System (KEMS)	42
Air pollution prevention	33
Water pollution prevention	48
Noise and vibration prevention	25
Industrial wastes treatment and control	39
Global environmental conservation	13
Local society activities	7
Working environmental management	56
Total	263

Status of ISO14001 certificate acquisition

All of our twenty plants in Japan acquired the certificate as planned as of end of March 2001.
We promote spreading and maintenance of environmental management system from now on.

Status of ISO14001 certificate acquisition (as of March 2001)

Domestic sites

Plant	Main line of business	Certifying organization / Registration number	Date of Certification
Tsukuba plant	Manufacturing of farm machinery	LRQA 771757	Nov. 1997
Shinyodogawa environmental plant center	Design and development of environmental facilities	JICQA E 018	Dec. 1997
Funabashi plant	Manufacturing of ductile iron pipes	LRQA 771890	Jul. 1998
Ryugasaki plant	Manufacturing of vending machines	DNV EMSC-1273	Nov. 1998
Mukogawa plant	Manufacturing of ductile iron pipes	LRQA 772498	Mar. 1999
Kyuhoji plant	Manufacturing of precision machinery products	DNV EMSC-1379	Mar. 1999
Sakai PVC pipe plant	Manufacturing of plastic pipes and fittings	JUSE JUSE-EG-019	Jul. 1999
Hirakata plant	Manufacturing of cast steel products, pumps, valves, construction machinery, new material products	LRQA 772527	Sep. 1999
Ichikawa plant	Manufacturing of spiral steel pipes, heat transfer pipes	JICQA E097	Nov. 1999
Okajima plant	Manufacturing of ductile segment, drainage pipes and cast iron products	JICQA E105	Dec. 1999
Shinyodogawa factory in Mukogawa plant	Manufacturing of FW pipes	JCQA JCQA-E-0114	Jan. 2000
Odawara plant	Manufacturing of plastic pipes and fittings, and roofing materials	JUSE JUSE-EG-028	Jan. 2000
Sakai plant (including Sakai coastal factory and Naniwa factory)	Manufacturing of engines, farm machinery	LRQA 772673	Mar. 2000
Shiga plant	Manufacturing of roofing materials, FRP products	JUSE JUSE-EG-031	May. 2000
Environmental engineering consolidated division	Sales, development, design, procurement, manufacturing, construction, service of environmental control plant	LRQA 772707	Jul. 2000
Utsunomiya plant	Manufacturing of rice transplanters and combine	LRQA 772846	Dec. 2000
Amagasaki plant	Manufacturing of rollers for rolling steel, reducing pipes and inorganic synthesized mineral (potassium titanate)	JACO EC00J0224	Jan. 2001
Kashima plant	Manufacturing of ceramic siding, its related parts and its construction materials	JTCCM RE0183	Mar. 2001
Ohama plant	Manufacturing of ceramic siding, its related parts and its construction materials	JTCCM RE0187	Mar. 2001

LRQA : Lloyd's Register Quality Assurance Limited / JICQA : JIC Quality Assurance / DNV : Dedt Noriske Veritas AS / JUSE : Union of Japanese Scientists and Engineers ISO

JCQA : Japan Chemical Quality Assurance Ltd. / JACO : Japan Audit and Certification Organization for Environment and Quality / JTCCM : Japan Testing Center for Construction Materials

Foreign site

Plant	Main line of business	Certifying organization / Registration number	Date of Certification
The Siam Kubota Industry Co., Ltd.	Manufacturing of engines and farm machinery	Management System Certification Institute (Thailand) EMS99001 / 001	Aug. 1999

Affiliates

Company	Main line of business	Certifying organization / Registration number	Date of Certification
Kubota House Co., Ltd.	Design and construction of prefabricated houses	DNV EMSC-1424	Oct. 1999
Japan Plastic Industry Co., Ltd.	Manufacturing and sale of vinyl pipes and various kind of tarpaulin	JSA E276	Oct. 2000
Kubota Construction Co., Ltd.	Contracting business regarding drinking water, sewage water, civil engineering, and buildings	JQA-EM1205	Oct. 2000

JSA : Japan Standards Association / JQA : Japan Quality Assurance Organization

Environment-related education

It is important that each and every employee recognize the environmental awareness for environment-friendly corporate activities.

In 1981, we started a environmental management technology program at Kubota, and we now conduct environmental education programs in detail on an annual basis, targeting the employees who is in charge of actual work, and management-level staff, based on in-house textbooks.

We also encourage our employees to acquire qualifications in environment-related area such as the environment judges including pollution control managers.

The table at the right shows the numbers of employees with qualifications in various environment-related areas.

Environment-related education for fiscal 2000	No of employees acquiring environment-related qualifications (as of end of March 2001)
1. Education by rank	• Pollution control managers
• New employee education	Air 79
• Education for technology staff at the second year from the enrollment	Water 103
• Education for middle-level monitors	Noise 97
2. General education of environmental management	Vibration 75
• Education of environmental management technology	• Environment measurement engineer
• Education of saving energy technology	• ISO14001
• Education for new staff in charge of materials	Chief environment monitor 1
3. Education for qualification acquisition	Environment monitor 2
• Education for pollution control manager examination	Assistant environment monitor 8
• Education for class 1 working environment measurement engineer examination	• Energy management engineer
• Education for class 2 working environment measurement engineer examination	Heat 44
4. ISO 14001-related education	Electricity 38
• Education for in-house environmental auditors	• Working environment measurement engineer
	Class 1 120
	Class 2 105
	• Environment counselor
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