

Key Data on Yokogawa's Main Plants

Headquarters	Address:	2-9-32 Nakacho, Musashino-shi, Tokyo, Japan
	Main products and services:	Information solutions, control systems, IP network solutions, medical information systems, system integration, and other solutions services; system engineering, aerospace instruments, B/M instruments
YMF Komine plant	Address:	1 Komine-dai, Akiruno-shi, Tokyo
	Main products:	System products
YMF Kofu plant	Address:	155 Takamuro-cho, Kofu-shi, Yamanashi-ken
	Main products:	Measuring instruments, flow rate meters, recorders, other measuring instruments
YMF Ome plant	Address:	3-8-2 Fujihashi, Ome-shi, Tokyo
	Main products:	PCBs, meters, field measuring instruments
YMF Komagane plant	Address:	2061 Miyata-mura, Kamiina-gun, Nagano-ken
	Main products:	Electronic devices

			Headquarters	YMF Komine plant	YMF Kofu plant	YMF Ome plant	YMF Komagane plant					
Inputs	Energy	Electric power	29,687MWh	11,324MWh	16,038MWh	9,326MWh	7,257MWh					
		Gas (town gas and LPG)	938,893m ³	47,166m ³	384,097m ³	146,329m ³	0m ³					
		Petroleum	0kR	0kR	0kR	0kR	675kR					
	Water	Municipal water	90,803m ³	19,607m ³	47,832m ³	5,402m ³	0m ³					
		Wastewater	109,163m ³	0m ³	236,862m ³	54,582m ³	97,761m ³					
	Materials	Paper	370,796kg	14,987kg	13,616kg	3,506kg	317 kg					
		Chlorofluorocarbons	0kg	0kg	0kg	0kg	0kg					
		Trichloroethylene, tetrachloroethylene, dichloromethane Toxic/deadly substances	0kg	0kg	0kg	0kg	0kg					
		poisoning	140kg	1,246kg	435kg	0kg	0kg					
		Substances controlled by the ordinance on the prevention of organic solvent	249kg	4,293 kg	7,247kg	0kg	1,969kg					
Lead	143kg	3,085kg	4,986kg	437kg	0kg							
Outputs	Gaseous emissions (into atmosphere)	CO ₂	1,869t	764t	265t	291t	1,944 t					
		CFC converted value	0kg	1kg	0kg	0kg	0kg					
	Fluid emissions (into water)	Total wastewater	177,463 m ³	17,178m ³	133,800m ³	59,984m ³	97,761m ³					
		(Domestic wastewater)	(174,391m ³)	(16,698m ³)	(129,000m ³)	(9,397m ³)	(8,887m ³)					
		(Factory wastewater)	(3,072m ³)	(480m ³)	(4,800m ³)	(50,587m ³)	(88,874m ³)					
	Waste products	Chemical treatment fluid waste	0 t	480t	867t	984t	0 t					
		Landfill waste	0 t	0 t	0 t	63t	1.1t					
		Incinerated waste	4.6t	3.6t	93t	0 t	0.28t					
	Recycled resources		869.8t	791t	887t	231t	52.8t					
	Laws and Regulations	Atmosphere	Regulation value	Maximum value	Regulation value	Maximum value	Regulation value	Maximum value	Regulation value	Maximum value	Regulation value	Maximum value
NOx: cold/hot water			85/45ppm	74/42ppm	-	-	150/120ppm	68ppm	-	-	-	-
NOx: cogeneration			200ppm	180ppm	-	-	-	-	-	-	-	-
SOx: cold/hot water			-	-	-	-	-	-	-	-	-	-
SOx: boiler			-	-	-	-	-	-	-	-	4.3ppm	0.29ppm
Soot: cold/hot water			0.05g/Nm ³	Not detected	-	-	0.1g/Nm ³	0.01g/Nm ³ or less	-	-	-	-
Soot: cogeneration		0.04g/Nm ³	Not detected	-	-	-	-	-	-	-	-	
Water zone		Regulation value	Maximum value	Regulation value	Maximum value	Regulation value	Maximum value	Regulation value	Maximum value	Regulation value	Maximum value	
		Hydrogen ion concentration	5.7-8.7pH	7.3-8.7pH	5.7-8.7pH	6.5-8.0pH	5-9pH	7.5pH	5.7-8.7pH	6.5-7.3pH	5.8-8.6pH	6.1-7.5pH
		BOD	-	-	Less than 300mg/l	2.1mg/l	Less than 600mg/l	76mg/l	Less than 300mg/l	140mg/l	-	-
	SS	-	-	Less than 300mg/l	1mg/l or less	Less than 600mg/l	11mg/l	Less than 300mg/l	3mg/l	-	-	

Note: Hyphens indicate cases where there are no results or where values are not regulated.

A History of Caring for Our Environment

1971		Yokogawa establishes a pollution prevention organization.
July	1974	Yokogawa completes construction of wastewater treatment facilities in accordance with municipal bylaws.
May	1987	Yokogawa begins conducting environmental assessment studies.
October	1989	Yokogawa establishes a chlorofluorocarbon (CFC) reduction committee.
April	1991	Yokogawa sets up a Global Environmental Protection Promotion Department.
August		Yokogawa starts a "Protect the Earth" campaign.
February	1993	Yokogawa appoints an Officer of Environmental Management and forms a Corporate Global Environment Committee.
July		Yokogawa establishes a voluntary environmental activities plan.
August	1994	Yokogawa reports on the results of voluntary environmental activities in 1993.
December		Yokogawa completely eliminates specific chlorofluorocarbons and trichloroethane for cleaning.
June	1995	Yokogawa begins planning to obtain ISO14001 certification as the first step towards becoming an environmentally friendly enterprise. The voluntary environmental activities plan is absorbed into the ISO14001 plan.
October		Yokogawa reorganizes the Corporate Global Environment Committee.
March	1996	Yokogawa establishes corporate rules for environmental protection management.
May		Yokogawa forms a Global Environment Committee at headquarters and at the Kofu office (now called YMF Kofu plant) and Komine plant (now called YMF Komine plant). Solar power generators installed at Headquarters. Yokogawa signs a disaster prevention accord with Musashino City.
April	1997	Yokogawa begins publishing <i>Green Times</i> , an in-house publication promoting environmental issues.
July		Kofu office (now called YMF Kofu plant) obtains ISO14001 certification.
February	1998	Headquarters and the Komine plant (now called YMF Komine plant) obtain ISO14001 certification.
May		A co-generation system goes online (twin 585-MW generators) at the headquarters new main building.
June		Yokogawa begins publishing an environmental catalog.
September	1999	Yokogawa publishes Yokogawa Environmental Report 1999, its first environmental report. Also introduces environmental accounting and makes data available to the public.
November		Yokogawa introduces environmental labeling (Type II).
December		Yokogawa is rated number two in the manufacturing sector in the Nikkei Shimbun's third annual survey of industry environmental operations.
July	2000	Yokogawa headquarters attains goal of generating zero landfill waste.
August		Yokogawa becomes the first company in Japan to institute a shipping carton recycling service for all its customers.
November		Suzhou Yokogawa Meter Company joins the Japan-China 3Es (Energy, Environment, and Economy) Research Project, and is selected as a model corporation for a study of environmental accounting.
March	2001	Yokogawa establishes its Basic Environmental Management Standard for the Yokogawa Group.
July		Yokogawa publishes Yokogawa Group Environmental Report 2001.
September		Three Yokogawa sites receive comprehensive ISO14001 certification.
November		The Kofu office (now called YMF Kofu plant) accomplishes its goal of generating zero landfill waste.
February	2002	The YMF Akiruno office (now called the YMF Komine plant) accomplishes its goal of generating zero landfill waste.
July		The Kofu office (now called YMF Kofu plant) installs a light-through type solar power generating system.
August		Yokogawa publishes Yokogawa Group Environmental Report 2002.
February	2003	Four sites obtain comprehensive ISO14001 certification.
July		The Econo-Pilot energy saving system for water pumps receives the Agency of Natural Resources and Energy Director-General's Award at the Energy Conservation Award 2002 ceremony.
October		The Kofu plant receives an award from the Director General of the Kanto Bureau of Economy, Trade and Industry in recognition of its achievements in reducing energy consumption.
July		Yokogawa publishes Yokogawa Group Environmental Report 2003.
October		A factory at a new company, Yokogawa Electric China Co., Ltd. starts operations as an environmentally aware production site in Suzhou, China.
March	2004	New environmentally optimized factories at the YMF Komine plant and YMF Kofu plant start operations.

From the Editor

- For the 2004 edition of this report, the title was changed from Environment Report to Environmental Management Report to more clearly communicate Yokogawa management's perspective on the environment.
- As a result of our environmental activities which are implemented throughout our operations, the Yokogawa Group has developed products and services which contribute to the environmental management efforts of our customers as well. EconoPilot is introduced in a special section of this report as an example of a product designed to help build a sustainable society.
- The cover page was designed to depict the Yokogawa Group's transparency and contributions to building a sustainable society. Photographs were used in the cover design for the first time.
- We created this 2004 edition in cooperation with outside consultants on environmental matters, who advised on social trends, selection of topics, and details included in the main text during the drafting process.
- Going forward, we hope to continue exploring constructive ways to communicate information so as to improve the transparency and reliability of this report. The Yokogawa Group is very interested in receiving your feedback and comments.



Let us know what you think of this publication

This report outlines the environmental management activities
of the Yokogawa Group for fiscal year 2003.

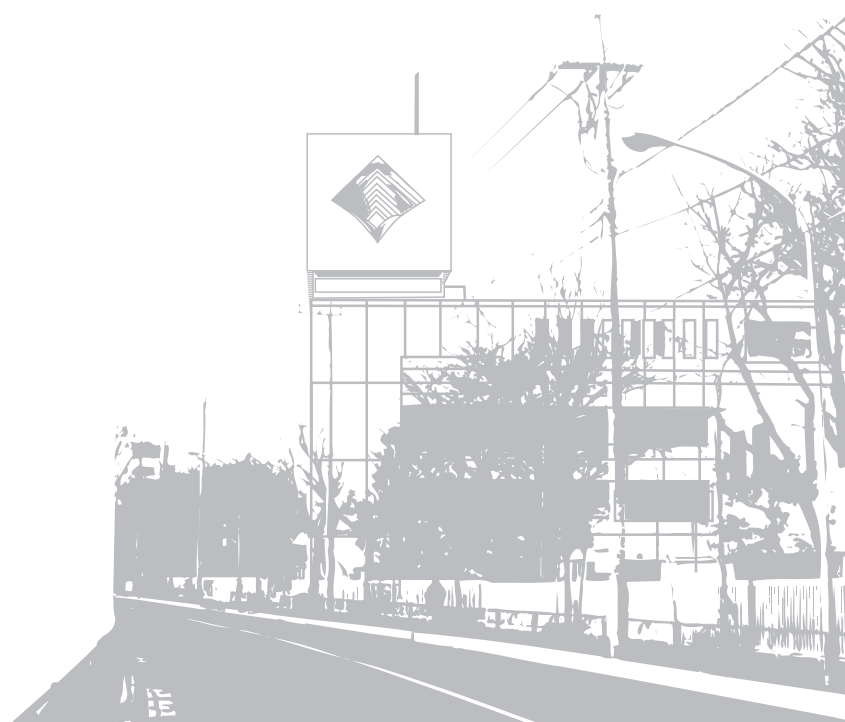
To encourage open communication with our stakeholders,
we have published the “Environmental Management Report 2004.”

What did you think about its contents?

Although we have tried to make the report easy to understand
and show actual examples of our activities,
there is always room for improvement.

To improve environmental management of the Yokogawa Group
and future versions of this report,
we welcome your opinions and feedback.

Please kindly complete the questions on the back of this sheet
and return the form by post, fax, or e-mail.



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Survey Questions on Yokogawa Group Environmental Report 2004

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1 What is your relationship with the Yokogawa Group? Please tick one box.

- Customer Stockholder Administrative body Investment/financial institution
 Environment-related NGO or NPO Living near a Yokogawa Group site
 School/educational institution Student
 In charge of environmental management in a firm or other organization Employee of Yokogawa Group
 Others ()

2 Was this report easy to understand?

5. Very easy 4. Easy 3. Normal 2. Difficult 1. Very difficult

3 How do you feel about the Yokogawa Group's measures and actions for environmental protection?

5. Good 4. Slightly good 3. Normal 2. Not so good 1. Not good

4 Did this report contain enough detail on what you wanted to know?

5. Far too much 4. Too much 3. Just right 2. Too little 1. Far too little

5 Which sections interested you most? (Please tick any boxes.)

- Environmental Management Practices of the Yokogawa Group
 2003 Special Feature Overview of Environmental Impact
 Environmental Management Indicators Environmental Accounting
 Environmental Management Activities Targets and Results
 Development of Environmentally Friendly Products Green Procurement and Purchasing
 Environmentally Friendly Products Environmental Solutions Green Production Lines
 Preventing Global Warming Protecting the Air and Water Soil Cleaning
 Comprehensive Management of Chemical Substances Reduced Use of Toxic Substances
 Zero Emissions Distribution CSR Initiatives Customer Relations
 Employee Relations Community Relations Communicating About the Environment
 Others ()

6 What was your general impression of this report?

5. Good 4. Slightly good 3. Normal 2. Not so good 1. Not good

7 Your opinions and comments:

Thank you. Please complete the following personal information (optional):

Your full name (Mr./Ms.): _____

Contact address: _____

Daytime phone number: _____

E-mail address: _____

Your opinions and comments may be included in the next issue of our environmental report. Please note that we will take complete responsibility for the appropriate management of any confidential personal and private information collected. In addition, the information you supply will not be used for any purpose other than sending you the report and answering your questions, nor will we disclose it to any third party.



The Yokogawa Group has worked to improve its environmental management practices while incorporating the feedback of all stakeholders. It is our hope that these efforts will help produce even greater benefits from environmental management, and that our know-how will help protect the global environment.

The cover design expresses this concept, showing the monument which is the Yokogawa corporate symbol located in the lobby of our Headquarters building, together with ripples of water extending outward.

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