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Environmental Management



Environmental Conservation



- What Yokogawa is doing to protect the environment

Promoting Environmental Management within Customers

Environmental Management

Information on our environmental protection policies and systems

- The two pillars of environmental management
- Environmental Policy
- ISO14001 Certifications
- Organization
- Environmental milestones

Promoting Environmental Management within Yokogawa



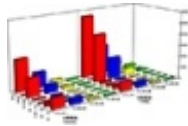
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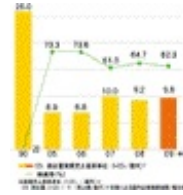
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Yokogawa's efforts to promote environmental management to its customers

- Environmentally friendly products
- Environmental Solutions



- How environmental management is being promoted within Yokogawa

Environmental Communications



- Information for stakeholders about Yokogawa's environmental activities

Promoting Biodiversity



- Learn about our efforts to protect large trees and plant lawns and gardens

Community-level Environmental Conservation Activities



- Yokogawa's environmental philanthropy; afforestation programs and cleanup events

Environmental Report

- Scope of the environmental report

Environmental Report Archive

- Archive of CSR and environmental reports dating back to 1999

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Environmental Conservation

The Yokogawa philosophy states, "As a company, our goal is to contribute to society through broad-ranging activities in the areas of measurement, control, and information. Individually, we aim to combine good citizenship with the courage to innovate." Yokogawa uses its technology for "measurement, control, and information" to contribute to environmental conservation—a concern shared by all humanity.

Yokogawa has always promoted environmental management and has positioned environmental conservation as one of the most important issues in company management. Yokogawa has reduced its own environmental load by promoting environment management in all business areas within the company, including development and production. Based on this technology and experience, Yokogawa has launched the "Energy Conservation and Environment Protection Solution Business" to continue promoting environmental management to its customers.

In December 2009, Yokogawa appointed a CGO (Chief Green Officer) to be in charge of promoting environmental conservation. With this CGO, Yokogawa plans to further strengthen its "Energy Conservation and Environment Protection Solution Business" and all of its activities related to energy conservation and environmental conservation within the Group.



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The two pillars of environmental management

Yokogawa's management has assigned a very high priority to protection of the environment. We have established an environmental management system with the aim of making continuous improvements in our environmental performance.

We have two environmental management objectives. The first is to help our customers reduce the environmental impact of their business activities. To achieve this goal, we develop and provide products that are in harmony with the environment, and propose solutions that can be used by our customers to analyze and reduce the environmental impact of their business activities.

The second objective is to reduce the environmental impact of our own business activities. We are working toward this end by optimizing our operations to reduce the usage of energy and other resources, starting with activities on our production lines and extending to all other areas of our business including development, sales, procurement, and logistics.

Through these efforts, Yokogawa is working together with its customers to build a sustainable society.

The Yokogawa Group's Environmental Management



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The Yokogawa Group aims to reduce its global environmental burden across all its operations by:

- Proactively implementing environmental activities
- Providing environmental solutions and environmentally friendly products to customers

Through these activities, the Yokogawa Group will contribute to building a sustainable society together with its customers.

All operations: Senior management, planning, R&D, design, sales, procurement, production, distribution, service, recovery and recycling

Environmental activities: Resource and energy conservation, pollution prevention, waste reduction, promotion of reuse and recycling, etc.

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Environmental Policy

In conformity with Basic Environmental Management Rules for the Yokogawa Group, each site of the Group shall strive, in all its activities, to:

1. **Establish, maintain, and improve its environmental management system.**
Each site establishes an environmental management system in order to promote and continuously improve its global environmental conservation activities. To maintain and improve the system, each site accurately evaluates the burden of its activities on the environment, sets environmental objectives and targets that are technically and economically viable, and carries out environmental audits.
2. **Provide environmental training.**
Each site actively provides training for global environmental conservation to ensure that employees understand the Environmental Philosophy, Code of Conduct for Environmental Conservation, and Environmental Policy of the Yokogawa Group to improve their environmental awareness, and to act autonomously with consideration of the environment in both their work and life in the local community.
3. **Abide by legal regulations.**
Each site abides by laws, legal regulations, and other requirements concerning the environment, in order to proactively conserve the global environment.
4. **Carry out resource recycling-based operations.**
Throughout its activities, each site endeavors to utilize energy and resources efficiently, to prevent global warming, to reduce waste, and to promote the reuse and recycling of resources with the aim of eliminating emissions.
5. **Minimize environmental pollution.**
Each site strives to eliminate the use of substances that adversely impact the environment, such as toxic chemicals, and ozone-destroying substances, by using safe substitutes or employing safe technologies to avoid the risk of environmental pollution.
6. **Create environmentally friendly products.**
Each site develops and produces environmentally friendly “green” products in consideration



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of the environmental burden throughout the products' lifecycles, from material purchase, manufacture, and distribution to their use and disposal.

7. Supply society with environmental solutions.

Each site supplies society with value-added products and services for conserving the earth's environment through measurement, control, and information technologies.

8. Contribute to local communities.

Each site encourages its employees to participate in environmental conservation activities under their own initiative as good corporate citizens.

9. Make environmental information available to the public.

Each site actively makes environmental information, including its environmental policy and conservation activities, available to the general public.

April 2009

Shuhei Sakuno

Environmental Officer
Yokogawa Electric Corporation

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ISO14001 Certifications

Yokogawa Group's ISO 14001-certified sites (including KES*) are as follows:

ISO14001

As of the end of March 2010

Factories		Date Certified
Yokogawa Electric Corporation Headquarters & Main Factory		July 1997
Yokogawa Manufacturing Corporation Consolidated certification covering Komine, Kofu, Ome, Uenohara and Headquarters Factories		July 1997
Yokogawa Meters & Instruments Corporation		July 1997
Kokusai Chart Corporation		January 1999
Yokogawa Field Engineering Service Corporation		February 2000
Yokogawa Denshikiki Co., Ltd.		November 2000
Yokogawa Digital Computer Corporation		September 2007
Suzhou Yokogawa Meter Company	China (Suzhou)	May 1998
Yokogawa Shanghai Instrumentation Co., Ltd.	China (Shanghai)	March 2000
Yokogawa Sichuan Instrument Co., Ltd.	China (Chongqing)	December 2000
Yokogawa Electric China Co., Ltd.	China (Suzhou)	May 2004
Yokogawa Electric Asia Pte. Ltd.	Singapore	October 1998
Yokogawa Engineering Asia Pte. Ltd.	Singapore	August 2001



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▶ Customers	P.T. Yokogawa Manufacturing Batam	Indonesia	April 2000
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▶ Employees	Yokogawa Electronics Manufacturing Korea Co., Ltd.	South Korea	December 2004
▶ Governance and Compliance	Yokogawa Measuring Instruments Korea Corp.	South Korea	March 2007
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* "KES" refers to the KES Environmental Management System Standard.

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Organization

In the organization of Yokogawa's environmental management promotion, a CGO (Chief Green Officer) was appointed in December 2009. The CGO is responsible for Yokogawa's environmental activities and for operating environmental management and energy conservation within the Group while promoting environmental management and environmental conservation to Yokogawa's customers.

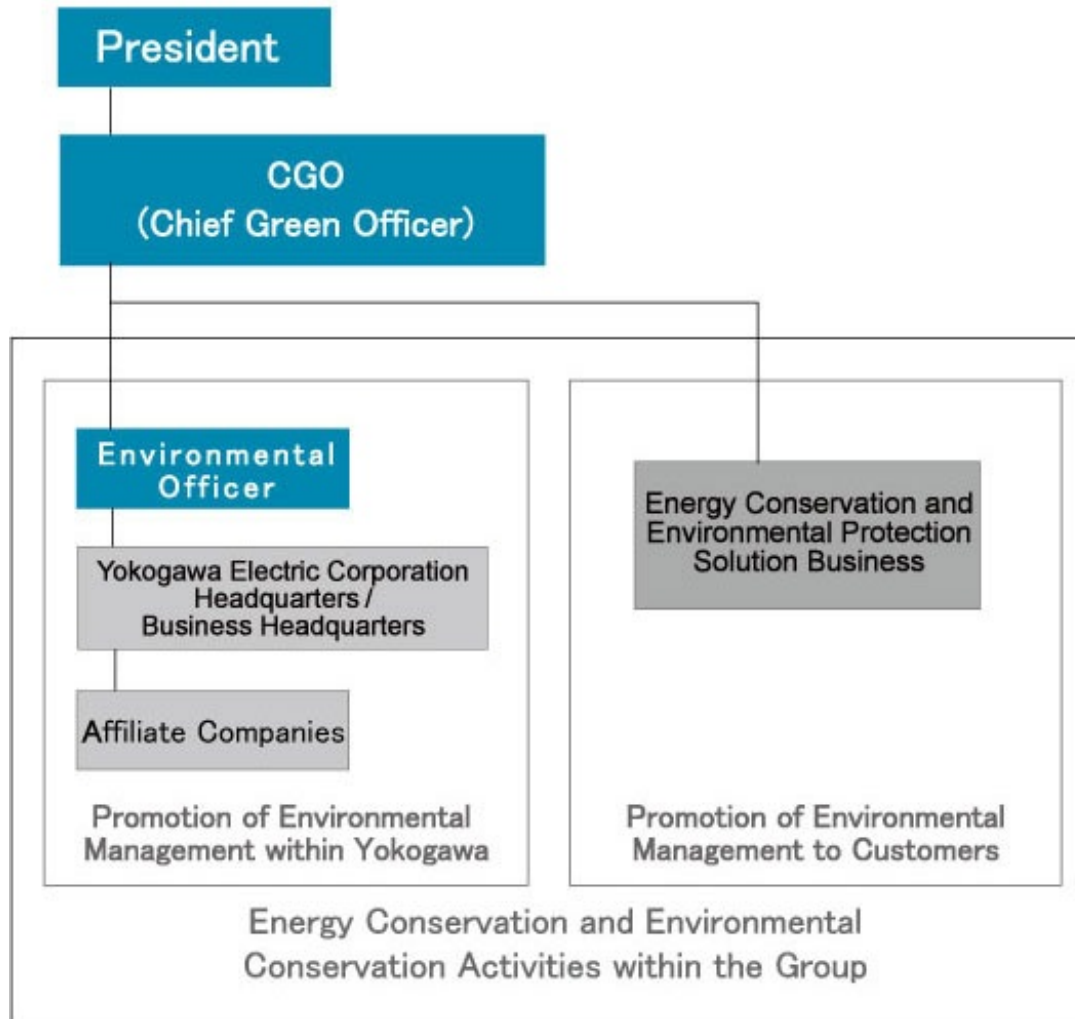
Organization of Environmental Management Promotion



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Environmental milestones

Various global environmental conservation activities had been carried out before Yokogawa Kofu office was certified with the ISO14001 certification in 1997 followed by officially implementing the environmental management system across the entire Yokogawa group. The environmental practices of Yokogawa group since 1971 are listed below in chronological order.

History of Environmental Practices of Yokogawa (in time series)

- [1971~](#)
- [1980~](#)
- [1990~](#)
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1971		Yokogawa establishes a pollution prevention organization
1974	July	Yokogawa completes construction of wastewater treatment facilities to comply with ordinance of Tokyo compliant with municipal bylaws
1987	May	Yokogawa begins environmental assessment studies
1989	October	Yokogawa establishes a chloro fluoro carbon (CFC) reduction committee
1991	April	Yokogawa sets up an organization to promote an Environment management
	August	Yokogawa starts "Save the Earth" campaign
1993	February	Yokogawa appoints a Vice President of Environmental Management and forms a Global Environment Committee
	July	Yokogawa establishes a voluntary environmental activities plan
1994	August	Yokogawa reports the results of voluntary environmental activities in fiscal year 1993
	December	Yokogawa completely eliminates specific CFCs and trichloroethane for cleaning
1995	June	Yokogawa Board of Directors decided to obtain ISO14001 certification and merge a voluntary environmental activity plan into ISO14001 plan.



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	October	Yokogawa reorganize a Global Environment Committee
1996	March	Yokogawa establishes corporate rules for environmental management
	May	Yokogawa forms a Global Environment Committee at Yokogawa Electric Headquarters & Main Factory, Kofu Office (current Yokogawa Manufacturing Kofu Factory), and Komine Factory (current Yokogawa Manufacturing Komine Factory). Solar power generators for disaster use installed at Yokogawa Electric Headquarters & Main Factory. Yokogawa signs a disaster prevention accord with Musashino City.
1997	April	Issued "Green Times", a company newsletter
	July	The Kofu Office (current Yokogawa Manufacturing Kofu Factory) obtains ISO14001 certification
1998	February	Yokogawa Electric Headquarters & Main Factory and the Komine Factory (current Yokogawa Manufacturing Komine Factory) obtain ISO14001 certification
	May	Two co-generation power generators (585 kw) go online at the new main building of Yokogawa Electric Headquarters & Main Factory
	June	Yokogawa begins publishing Yokogawa Environmental Catalogue
1999	September	Yokogawa publishes Yokogawa Environmental Report 1999. Also the company introduces environmental accounting and makes data available to public.
	November	Yokogawa introduces environmental labeling (Type II)
2000	July	Yokogawa Electric Headquarters & Main Factory reached its goal of generating zero landfilled waste
	August	Yokogawa introduces Japan's first returnable container recycling service for customers
	September	Yokogawa publishes Yokogawa Group Environmental Report 2000 and introduces third-party verification system
	November	Suzhou Yokogawa Meter Co. joins the China-Japan 3E (Energy, Environment, and Economy) Research Project and is selected as a model company for environmental accounting study
2001	March	Yokogawa establishes The principles of Yokogawa Group Environmental Management Standards.
	July	Yokogawa publishes Yokogawa Group Environmental Report 2001
	September	Three Yokogawa sites receive comprehensive ISO14001 certification
	November	The Kofu Office (current Yokogawa Manufacturing Kofu Factory) reached its goal of generating zero landfill waste
2002	February	The Yokogawa Manufacturing Akiruno Office (current Yokogawa Manufacturing Komine Factory) accomplishes its goal of generating zero landfill waste.

		The Kofu Office (current Yokogawa Manufacturing Kofu Factory) installs a light through type solar power generating system
	July	Yokogawa publishes Yokogawa Group Environmental Report 2002
	August	Four Yokogawa sites receive comprehensive ISO14001 certification
2003	February	The Econo-Pilot energy-saving system for water pumps receive the Agency of Natural Resources and Energy Director-General's Award at the Energy Conservation Award ceremony.
		The Kofu Office (current Yokogawa Manufacturing Kofu Factory) receives 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	The Plant of newly established Yokogawa Electric China starts operations in Suzhou as an environmentally aware manufacturing site
2004	March	New environmentally optimized facilities at the Yokogawa Manufacturing Komine Factory and Kofu Factory start operations
	June	Yokogawa publishes Yokogawa Group Environmental Management Report 2004
	August	Yokogawa Electric Headquarters & Main Factory obtain a separate ISO14001 certification
2005	March	Energy Conservation Guided Tours start at the Yokogawa Manufacturing Kofu Factory
	April	Yokogawa joins the Team Minus 6% national campaign
	June	Yokogawa publishes Yokogawa Group Environmental Management Report 2005
2006	March	Yokogawa Manufacturing Kofu Factory and Komagane Factory attain zero CO2 emissions
	September	Yokogawa publishes Yokogawa Group Sustainability Report 2006
	October	Yokogawa introduces the Green Power Certification System (300,000kwh) The Kanazawa Office receives the New Office Promotion Award, Environment Award and Good Design Award for architectural design
2007	June	Yokogawa publishes Yokogawa Group Corporate Social Responsibility Report 2006
	September	Yokogawa Group establishes the Energy Conservation and Environment Protection Solution Division in order to promote environmental management solutions to customers
2008	June	Yokogawa publishes Yokogawa Group Corporate Social Responsibility Report 2007
2009	May	Yokogawa completely abolishes the usage of HCFC

- June Yokogawa publishes Environmental Report 2009 on its website.
- October The Kofu Office receives "Green IT Award 2009 Minister of Economy, Trade and Industry Award" for its energy-saving activities
- 2010 February The ESCO business receives the 2009 Energy Conservation Grand Prize

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Promoting Environmental Management within Customers

Yokogawa promotes environmental management within its customers.

Innovating Environmentally Friendly Products

Yokogawa develops environmentally friendly products that are long lasting, save energy, and are compact.

→ [Environmentally Friendly Products](#)

Offering Environmental Solutions

Some case studies of the environmental solutions offered by Yokogawa are highlighted.

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Guidelines for Environmentally Friendly Design

(1) Environmental Assessment Standards for Product Design

We have established assessment standards in eight areas: ease of recycling and treatment, resource conservation, energy conservation, long-term usability, ease of collection and transport, safety and environmental protectiveness, information disclosure, and packaging. These standards are used in conducting assessments during each inspection (initial design, intermediate design, and final design).

(2) Lifecycle Assessment (LCA) Standards

The LCA standards are used for preliminary assessments of energy use, CO2 emissions, NOx emissions, SOx emissions, and the like throughout the lifecycle of a product. These standards are used in conducting assessments during each inspection (initial design, intermediary design, and final design).

(3) Environmentally Friendly Product Design Guidelines

These guidelines establish design and machining and assembly methods that incorporate long-life design, energy conservation design, resource conservation design, and materials and parts selection guidelines, as well as standards for the recycling and disposal of products.

(4) Standards on Toxic Substances in Products

These standards guide the selection of environmentally friendly parts and materials in the design stage. The standards stipulate the elimination or reduction of substances a total of 44 substance groups: 15 prohibited substance groups and 14 voluntarily controlled substance groups specified in the Green Procurement Study Standardization Guidelines, and substances in 15 voluntarily controlled substance groups nominated by the Group.

(5) Recycled Product Design Standards

These standards encourage the three Rs: the reduction of waste and the reuse and recycling of used products.

(6) Environmentally Friendly Material Selection Standards



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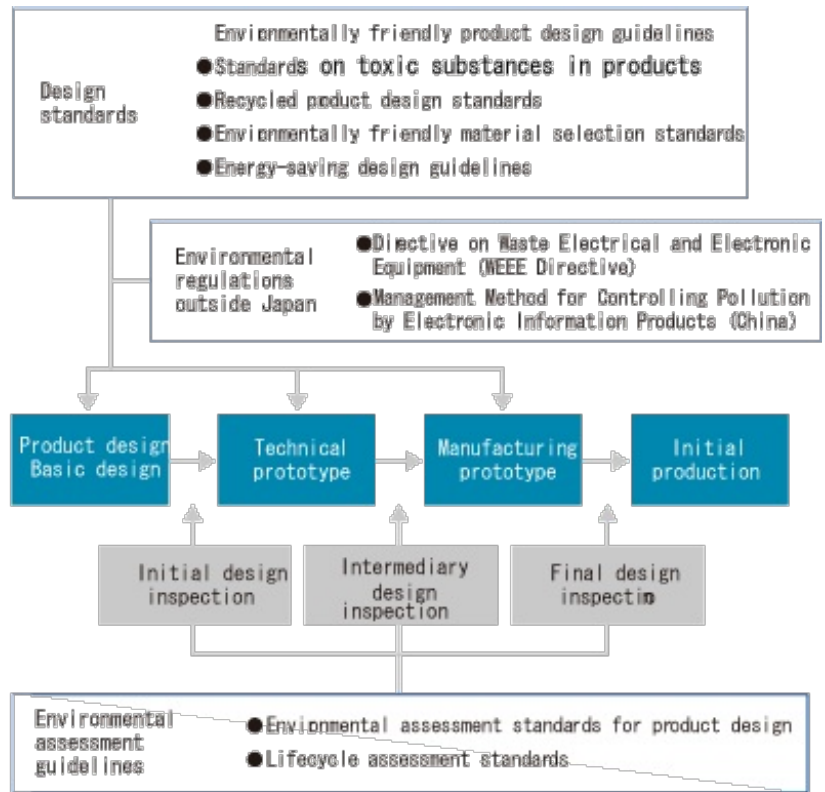
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These standards state that the use of halogen-based flame retardants is to be avoided. The standardized specifications of materials also state that the use of structural steel plates containing hexavalent chromium is to be avoided and assign chrome-free steel plates as a substitute.

(7) Energy-saving Design Guidelines

These guidelines state that energy is to be conserved in the manufacturing and product use stages. They introduce energy conservation design technologies for products and manufacturing.

Environmentally Friendly Design and Assessment Standards



Environmental Assessment Standards for Product Design

(1) When	Initial design inspection/intermediate design inspection/ final design inspection
(2) Assessment items	Twenty-nine items in eight fields; ease of recycling and treatment, resource conservation, energy conservation, long-term usability, ease of collection and transport, safety and environmental protectiveness, information disclosure, and packaging.
(3) Evaluation criteria	Score is zero points if legal regulations are not satisfied, four points if legal regulations are satisfied and an improvement of 30% or more is achieved, three points for an improvement of 15% or more, two points for an improvement of 5% or more, and one point for an improvement of less than 5%.
(4) Pass/fail judgment criteria	In order to pass, there must be no assessment items with a score of zero points, and the total score must be greater than that of the old model. A “failed” judgment is given if any of the assessment items has a score of zero points or if the total score is the same as or lower than that of the old model. The improvement guidelines target an improvement of 25% or more, and more than anything seek to incorporate environmental-burden reduction into design.

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Environmentally Friendly Products

Yokogawa has developed products, by setting design and assessment standards concerning aspects such as long-term usability, energy conservation, etc. of the product, in order to promote production of environmentally friendly products.

→ [Guidelines for Environmentally Friendly Design](#)

Example Product: DC voltage/current source "GS200"

Yokogawa sets design and assessment standards with regards to aspects such as long-term usability and energy conservation, etc. to promote environmentally friendly product making.

In developing a product, the following are evaluated by using lifecycle assessment (LCA) standards: energy use, carbon dioxide (CO2) emission, nitrogen oxide (NOx) emission, and sulfur oxide (SOx) emission.

The results, based on the LCA standards for "GS200," a DC voltage/current source released in 2009, achieves a 47.8% reduction in the CO2, a 48.7% reduction in NOx, and a 46.3% reduction in SOx, compared to previous model.



GS200

Lifecycle Assessment (LCA) Reference Comparison Chart



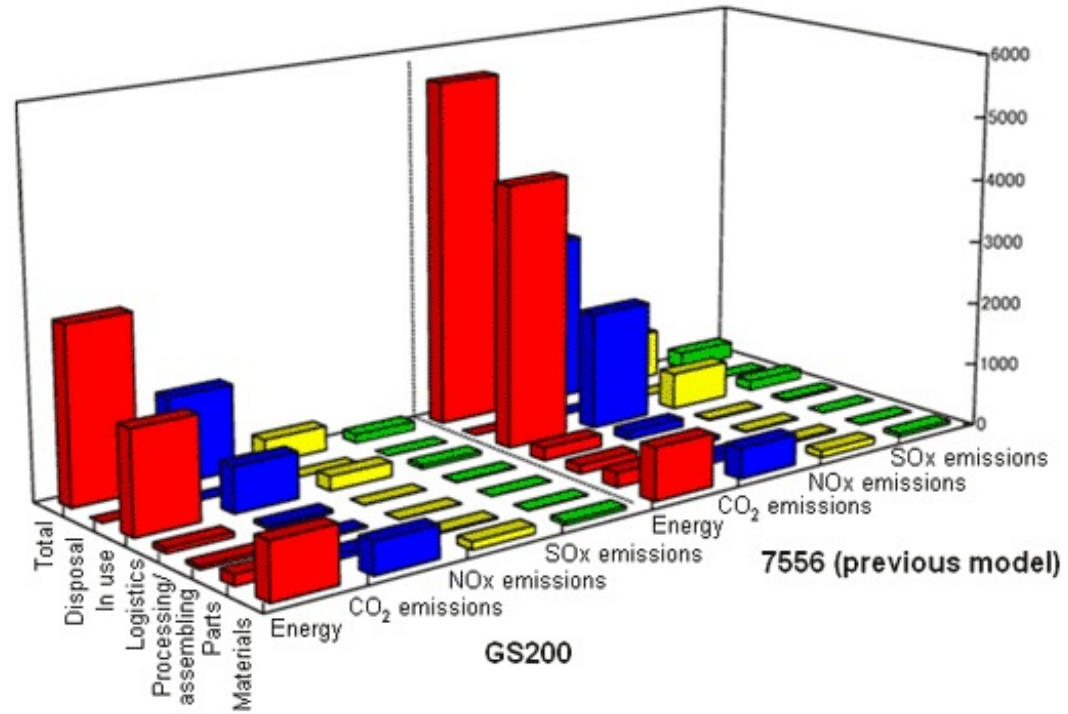
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Environmental Solutions

Reducing energy consumption and protecting the environment are issues that concern everyone in the oil, petrochemical, iron and steel, pulp and paper, electric power, and gas industries. Corporations must reduce energy consumption not only by complying with regulations, but also by boosting operational efficiency. For this reason, expectations are rising for the plant energy saving solutions that Yokogawa provides.

By combining our measurement, control, and information technologies with the vast array of knowledge that we have acquired providing such solutions to customers in Japan—a leading country in reducing energy consumption—we will offer energy saving and environmental conservation solutions to customers in the global market. Through these efforts, we will contribute to the realization of a low-carbon society.

Kofu Factory Receives METI Minister Award

The Kofu Factory, one of Yokogawa's principal manufacturing facilities, has received the METI Minister Award (one of the 2009 Green IT Awards) from the Green IT Promotion Council for its success in using IT to eliminate energy waste on its production lines.

The IT solutions introduced by the Kofu Factory include Yokogawa's InfoEnergy and Enerize energy management systems. By linking production and energy information, these have made it possible to analyze energy consumption for production processes on a production phase and lot basis.

This factory has also introduced Econo-Pilot, a Yokogawa product that reduces the amount of energy consumed by water pumps and compressors by making precise adjustments based on load. Furthermore, the factory was able to reduce its energy consumption by installing invertors in lighting and fans, and through the integration of equipment. This initiative was very well received because of the innovativeness and persistent effort of all those involved, and due to the accumulated results that were achieved in improving production operations at this factory.



Green IT AWARD 2009



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Yokogawa Receives 2009 Energy Conservation Grand Prize for Okinawa Hokubu Hospital ESCO Project

In 2009, Yokogawa received the Energy Conservation Center Chairman Award (Support Service Section, Organization Category) for the work that it did on the Okinawa Hokubu Hospital ESCO Project through a seven-company consortium*.

The Okinawa Hokubu Hospital needed a low-cost energy saving system with a low environmental burden. Yokogawa installed a high-efficiency inverter-driven turbo refrigerator for the cooling system that adjusts flexibly to load fluctuations. In addition, the Company made some changes in how the hospital's power generator was used and introduced energy-efficient lighting. Through such steps, the hospital's energy consumption was greatly reduced.

Furthermore, the introduction of a highly reliable central monitoring system improved the stability of these facilities' operations and enabled a more sophisticated approach to energy management. The results of these measures were incredible. In fiscal year 2008, the hospital's heat usage was down approximately 40% from the average for the previous three years, and CO2 emissions were 50% lower compared to the same average.

*Yokogawa Electric Corporation (Representative),
 Fuyo General Lease Co.,Ltd., ASAHI KOGYOSHA CO.,LTD.,
 SHODENSYA Co.,Ltd., Setsubi Kenkyujyo KK, Teruya Denki Kouji
 KK, and Kyuken Kogyou Company Limited



ENERGY CONSERVATION GRAND PRIZE

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Promoting Environmental Management within Yokogawa

Here we highlight some of Yokogawa's efforts to promote its own environmental management.

Goals and Achievements in Fiscal Year 2009

Lists Yokogawa's goals and achievements.

→ [Goals and Achievements](#)

Compliance with Environmental Laws

Summarizes Yokogawa's standing under the environmental laws.

→ [Compliance with Environmental Laws](#)

Environmental Accounting

Yokogawa calculates the costs of its environmental activities and quantifies their economic impact.

→ [Environmental Accounting](#)

Improvement of Production Line



Highlights some examples of improvements made on the production floors.

Environmental Auditing

Provides an summary of the ISO 14001 internal audit as well as audits done by external auditors.

→ [Environmental Auditing](#)

Environmental Impact

Explains the annual volume of the energy and material inputs for its business activities (including manufacturing, sales, and service) as well as the annual output of waste and other matter into the air and water.

→ [Environmental Impact](#)

Environmental Education

Introduces Yokogawa's educational structure.

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Global Warming Prevention



Highlights Yokogawa's involvement in dealing with CO2 emissions and global



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warming.
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Chemical Substances Control and Reduction



Highlights some of Yokogawa's efforts to reduce chemical substances.

→ [Chemical Substances Control and Reduction](#)

Green Procurement and Green Purchasing

Explains Yokogawa's efforts related to procurement.

→ [Green Procurement and Green Purchasing](#)

Waste Reduction and Resource Saving



Highlights Yokogawa's efforts to reduce waste, such as its promoting of zero emissions.

→ [Waste Reduction and Resource Saving](#)

Environmental Events



Highlights some of Yokogawa's environmental events, such as activities to raise awareness about the environment.

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Goals and Achievements

In fiscal year 2009, the Yokogawa Group reviewed its global environment protection activities from the environmental and business perspectives and strove to achieve targets that were closely integrated with its business operations.

The Yokogawa Group also strove to reduce our environmental burden and conserve energy and resources in production activities by carrying out measures such as a review of the handling of toxic chemical substances in products.

Goals and Achievements in Fiscal Year 2009

Environmental Policy of the Yokogawa Group	Fiscal Year 2009 (main sites)		Self Evaluation
	Target/Goal	Results	
EMS establishment, maintenance, and improvement	Confirm and achieve environmental conservation action targets that are closely integrated with our business practices.※3	<ul style="list-style-type: none"> ■ 140 themes closely integrated with business operations ■ Attained Semi-annual internal audits conducted and effective environmental system confirmed 	○
	Promote useful activities in line with existing business.※2	36 useful environmental activities promoted	
Implementation of environmental education	<ul style="list-style-type: none"> ■ Provide all employees with basic environmental education that can be applied to activities undertaken on their own initiative.※3 ■ Provide specialized environmental education to those who are engaged in business activities that have a particularly significant impact on the environment.※3 	100% achieved	○
	Strictly comply with the improved voluntary	All items confirmed to be below the	

▶ Environmental Events	Legal compliance	control limits.※2	voluntary control limits	○		
▶ Improvement of Production Line		Collect information on the revised Energy Conservation Law.※2	Collected information by attending briefing sessions, etc.			
▶ Global Warming		Establish preventive maintenance management of wastewater treatment facilities.※2	Management established			
▶ Chemical Substances		<ul style="list-style-type: none"> Review and improve management of bad odors.※2 Implement remediation measures against noise.※2 	Confirmed improvements in self-monitoring, etc.			
▶ Waste Reduction		Take measures to reduce environmental risks in 3 areas for environmental facilities and equipment.※2	Measures taken to reduce risks in 3 areas for environmental facilities and equipment			
▶ Green Procurement		Promotion of resource recycling-based management	Reduce CO2 emissions <ul style="list-style-type: none"> by 32.4 % per unit floor space, compared to fiscal year 1990 (to 97.7 kg-CO2/m² in emissions) ※1 Reduced to 16,353 t-CO2/year※2 		Reduce CO2 emissions <ul style="list-style-type: none"> 39.7 % reduction (to 87.2 kg-CO2/m² in emissions) Reduced to 15,555 t-CO2/year 	○
▶ Environmental Communications			Reduce total waste <ul style="list-style-type: none"> by 11 % compared to fiscal year 2003 (676 t/year in total generation)※1 Reduced to 2,787 t/year※2 		Reduce total waste <ul style="list-style-type: none"> 49% reduction (389 t/year in total generation) Reduced to 2,694 t/year 	
▶ Community-level Activities			Resource saving Deploy green production lines and make improvements at 12 lines ※2		Resource saving Achieved resource-saving improvements, including on manufacturing lines and for equipment, at 12 lines (reduced use of cutting oil, reduced volume of paper use, etc.)	
▶ Biodiversity	Collect information from the industry and other companies through external committee meetings, etc.※1		Information collected by attending external committee meetings			
▶ Citizenship	Minimization of environmental pollutants	Reduce toluene and xylene by 1,850 kg.※2	2,738 kg reduction	○		
▶ Customers		Promote lead-free soldering and achieve 100% application in planned products.※2	Application to all planned products achieved			
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Development of environmentally friendly products	Reduce CO2 emissions of developed products by more than 25%.※1	Five models shipped	○
	Reduce cost of products	One model shipped	
	Promote green procurement <ul style="list-style-type: none"> Introduce returnable tote boxes and palettes to five more client companies.※2 Provide suppliers with guidance and support on legal compliance.※2 	Promote green procurement <ul style="list-style-type: none"> Returnable tote boxes introduced to seven more client companies Ongoing preparation to provide suppliers with guidance and support on legal compliance 	
Provision of environmental solutions	<ul style="list-style-type: none"> Increase sales of environmentally friendly products ※1 Show visitors energy-saving efforts at the Kofu Factory ※1 	Achieved	○
Contribution to society through environmental conservation	Promote contributions to society through participation in nature conservation and social and community activities.※1	Participated in community clean-up activities and Black Illumination, etc.	○
	Carry out nature conservation and social and community activities at least once a year at each site.※2	A total of 23 social contribution activities carried out	
Disclosure of environmental conservation information	Promote information disclosure and enhance efforts to communicate with communities.※1	Published Environmental Report, Web edition	○
	Improve website.※2	to add more items regarding contribution to society	

Main sites: Yokogawa Electric Corporation Headquarters & Main Factory and Yokogawa Manufacturing Corporation

※1: Goals of Yokogawa Electric Corporation Headquarters & Main Factory

※2: Yokogawa Manufacturing Corporation

※3: Common goals

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Environmental Auditing

Internal Audits

The environmental internal audits for ISO 14001 of the Yokogawa Electric Corporation Headquarters & Main Factory consist of systems, legal compliance, and performance audits. Internal audits were conducted at all departments at least once during the year. Although some inconsistencies and items to be watched were identified, these were quickly addressed and corrected.

Internal Audit Inspection Items

Systems audit	Audit of organizations/systems, target management, education, operations management/corrections, and other data to check whether the system is functioning effectively
Legal compliance audit	Audit of the operation and monitoring of regulated values (qualifications, notice submissions, and measurement data) and other data to check whether legal and other requirements are being followed
Performance audit	Audit of targets and actual results, regulated values, and other data to check whether the self-determined operation items are being implemented properly

Annual Surveillance

At the Yokogawa Electric Corporation Headquarters & Main Factory as well as at Yokogawa Manufacturing, the second annual surveillance were conducted by a certifying organization. Yokogawa's continuing efforts were praised regarding the following aspects: and the certification was maintained by the surveillance team.

- Yokogawa Electric Corporation Headquarters and Main Factory were recognized for the social



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contribution activities, the improved transportation methods by developing and running dedicated returnable tote boxes and for their strengthening of the internal audit system.

- Yokogawa Manufacturing was recognized for various measures, such as daily monitoring of power consumption, reduction of waste by in-house treatment of alkali waste liquid, and for their promotion and strengthening measures such as qualified persons for energy management at each site.

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Compliance with Environmental Laws

The Yokogawa Group ensures compliance with laws, regulations, agreements, etc., to prevent environmental pollution. At the same time, the Group adopts alternative technologies wherever possible to reduce environmental impact substances.

Conserving Water and Soil

The Yokogawa Group has conducted soil and water studies at former production sites in accordance with its proprietary control standards, starting before the enactment of Japan's Soil Contamination Countermeasures Law. The Group will continue to comply with the revised Soil Contamination Countermeasures Law put in effect in April 2010.

Compliance with Environmental Laws

No severe violations were committed as a result of extensive efforts made by the Group to ensure compliance with environmental laws, regulations, and agreements.



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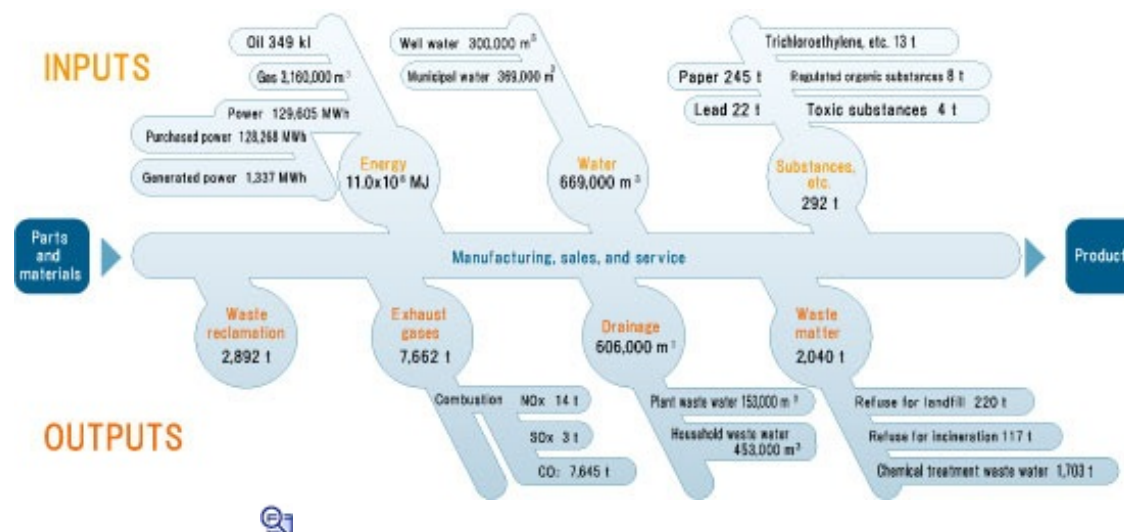
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Environmental Impact

The Yokogawa Group calculates the annual volume of the energy and material inputs for its business activities (including manufacturing, sales, and service) as well as their annual output of waste and other matter into the air and water. This analysis helps the Group effectively use resources, improve energy efficiency, and improve the waste recycling rate.

Overview of Environmental Impact



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Environmental Accounting

In accordance with the Ministry of the Environment's **Environmental Accounting Guidelines** (2005 edition), Yokogawa calculates the costs of its environmental activities and quantifies their economic impact.

Environmental Conservation Costs

(Millions of yen)

Category	Item	Main Initiatives	Capital Investment	Related Costs
Costs for reducing environmental impact of factories (areas of operation)	Pollution prevention costs	Monitoring and measurement	2.8	488.1
	Global environmental conservation costs	Energy savings	154.8	170.1
	Resource recycling costs	Minimize generation of waste matter	15.1	127.2
Costs for reducing environmental impact of procurement and logistics		Green procurement	0	9.4
Environmental conservation costs in EMS activities		EMS updates, education	0	208.2
Environmental conservation costs in R&D activities		Development of environmentally friendly products	0	0.8
Environmental conservation costs in community activities		Environmental events	0	32.0
Costs for correcting damage to the		Soil recovery	0	0



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environment	CO ₂ recovery	172.6	1,035.9
Total		172.6	1,035.9

Environmental Conservation Effects

Category	Description of Effect (unit)	FY2008	FY2009	Effect
Resource expenditure	Total amount of energy consumed (10 ⁸ MJ)	13	11	+2
	Total amount of water resources consumed (km ³)	903	669	+234
Global warming prevention	CO ₂ emissions (t)	9,669	7,645	+2,024
	CO ₂ emissions on unit sales (t-CO ₂ /100 million yen)	3.5	3.3	+0.2
Air pollution	NO _x emissions (t)	18	14	+4
	SO _x emissions (t)	3	3	0

Economic Effects of Environmental Conservation Measures — Intrinsic Effect

(Millions of yen)

Description of Effect	Amount
Reduction in expenditure due to recycling (sale of valuable resources, etc.)	14.3
Reduction in expenditures due to energy savings (power, etc.)	109.1
Reduction in expenditures due to resource savings (reduced use of paper and water, etc.)	11.7
Total	135.1

* Data was taken from ISO14001-certified manufacturing sites.

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Environmental Education

Yokogawa Electric places an emphasis on the environmental education program as part of employee training in order to raise environmental awareness of each employee. The program consists of basic education, specialized environmental education, environment-related qualification education and special education.

The environment basic education is reviewed every year. For 2010, the environment basic education is offered through E-learning.

To raise environmental awareness and facilitate acknowledgement of each employee in the Yokogawa Electric regarding the environmental conservation activities and daily updated environmental information, environmental education will be further expanded.

Structure of Environmental Education in Yokogawa Electric Corporation Headquarters & Main Factory



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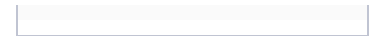
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	Environmental Management Manager	All Employees And Group Companies	Contractors
Basic Education	Basic Environmental Education		
	Education to Raise Environmental Awareness		
	Education for Facilitators		
Specialized Environmental Education		Specialized Environmental Education	Contractors Education
Qualification Education		Legal Practitioners Education	
	Internal Auditors Education		
		Engineering Staff Qualification System	
Special Education	Special Education		



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Improvement of Production Line

Since setting the Green Production Line Improvement Guidelines in 2002, Yokogawa has continued make improvements to each production line to reduce the environmental load. Yokogawa is also making efforts to conserve the environment by reducing contaminants in the air, water, and soil as well reducing CO2 emissions generated by the use of electricity while lowering manufacturing cost at the same time.

Reduction of Power Consumption through Compressor Operation Control

Yokogawa Manufacturing Komine Factory is working on reducing power consumption by lowering the pressure of the compressor. For the year 2009, Yokogawa Manufacturing worked on lowering the pressure of the compressors those are operated 24 hours a day. After evaluating the pressure levels in equipment, we installed amplifiers on ultrasonic welders that had recorded large pressure fluctuations. This has enabled the compressors throughout the factory to run at a lower pressure of 0.59 MPa (originally 0.64MPa), reducing the annual power consumption 40%, from 9.9MWh to 6 MWh.



Compressor

Effects of Power Reduction by Day-to-Day Monitoring

Yokogawa Manufacturing Kofu Factory has been actively realizing energy savings through day-to-day monitoring. This is led by an energy conservation team consisting of Kofu Factory's qualified person for energy management, the department in charge of the facility, and environmental facilitators from each



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Global Warming Prevention

To reduce the amount of CO2 emission, Yokogawa is actively improving production lines and installing high-efficiency equipment. Specifically, Yokogawa is making efforts to reducing its electric usage by continuously conducting "Cool Biz" and "Warm Biz" campaigns. This campaign promotes turning off the lights at lunchtime and setting the air conditioner thermostat to an appropriate temperature. In addition, Yokogawa's factories and sites have continuously participated in "Black Illumination," in which the lights are turned down in the facilities

Unit Sales, CO2 Emissions and Reduction Rates (compared to fiscal year 1990)

In fiscal year 2009, Yokogawa group companies' CO2 emissions in Japan, based on unit sales, amounted to 9.8 t-CO2 per 100 million yen. This is a 62.3% decrease compared to fiscal year in 1990. Factors such as energy conservation activities, improved energy efficiency in the new factories, and weather conditions reduced CO2 emissions. However, the reduction of CO2 emissions was counterbalanced by the decrease in total unit sales. Thus, compared to the previous year, it roughly leveled off.

Unit-sales-basis CO2 Emissions and Reduction Rates(compared to fiscal year 1990)



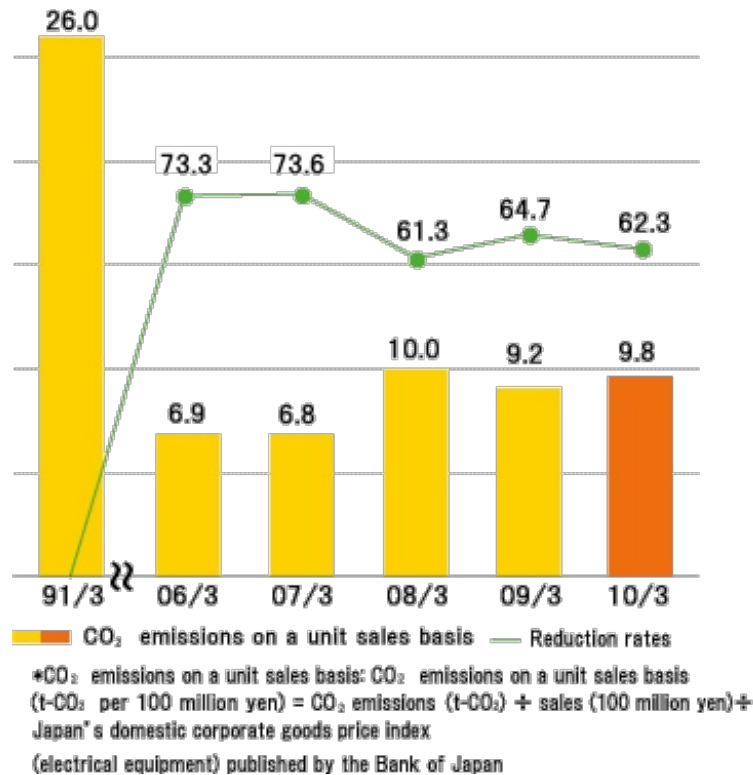
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Reusable Packing Boxes for Transportation

Yokogawa has developed packing boxes that can be reused up to 200 times (100 round trips) for transporting products and parts between factories. These boxes, developed jointly with JP Sankyu of Japan Post Group, are mainly used for transportation between factories in Japan and China. Traditionally, cardboard and wooden boxes were used, however, by replacing them with these reusable packing boxes, the amount of CO₂ emitted from the manufacturing and disposal of the boxes were reduced by 70%. In addition, the box height can be adjusted to three different levels to fit the amount and the size of contents. If nothing needs to be put in, the box can be folded flat and use of cushion can be successfully reduced, which also improves the load efficiency. The plan is to use the boxes for transporting between other sites.



Packing box

600 Workers Participate in "Eco-Commute Challenge"

In Yokogawa Manufacturing Kofu factory, which is a production plant, there were more people commuting by cars and motorcycles, than by public transportation. When Yokogawa invited approximately 1000 workers to take on the "Eco-Commute Challenge" (a campaign to commute in an eco-friendly way), over 600 joined the movement. These employees actively made changes such as turning off idling engine and using a motorcycle or a bicycle instead of a car. Invitations were made in hopes that many people will do everything they can do to help. As a result, each individual person has become more aware of the choices that are made on a daily basis. Yokogawa will continue to invite others to this "Eco-Commute Challenge." This movement has caught the interest of the Yamanashi prefecture, with which Yokogawa has been exchanging information.

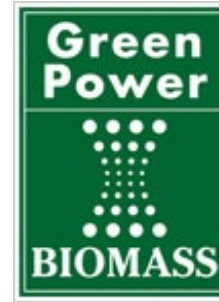
In addition, Yokogawa & Co. is raising awareness of eco-commuting by doing workshops using a DVD, and posting flyers.

Changes made in commuting methods through "Eco-Commute Challenge," by commute distance

Commute Distance	Change in Primary Commuting Methods
Under 2 km	Car⇒Bicycle or Foot
2 km to 5 km	Car⇒Motorcycle or Bicycle
5 km to 10 km	Car⇒Kei car, compact car, or motorcycle
Over 10 km	Normal car⇒Kei car Large car⇒Compact car Switched to a hybrid

Implementation of "Green Power Certification "System"

A portion of the power used at Yokogawa Electric Headquarters building comes from "green power" (300,000 kWh/year) from "biomass power generation."



biomass power generation

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Chemical Substance Control and Reduction

Yokogawa strictly manages chemicals that are harmful to the global environment and the human body. In addition, the reduction of using such chemicals by developing and introducing alternative processes is promoted.

Reduction of Lead Solder

Yokogawa Manufacturing Kofu Factory has been actively at work to "minimize environmental pollution," which is one of the requirements in the Yokogawa Group's Environmental Policy, by setting target each year. Products that support lead-free manufacturing were gradually expanded starting from 2003. Now, about two-thirds of the 300 models manufactured at the Kofu factory have been switched to products that support lead-free manufacturing. Since the use of lead-free cream solder for surface mounting was accelerated in fiscal year 2008, the amount of lead solder used at the Kofu factory in fiscal year 2009 was reduced by approximately 200 kg.

Additionally, there has been a movement towards using lead-free surface mount technology at production sites in China and South Korea. The lead-free surface mount process has also started at the Komine factory (production site in Japan) since fiscal year 2010. For 2010, the product chemical management promotion project will launch across the Yokogawa Group, and the REACH regulation and the RoHS Directive will be addressed.

PRTR Substances

The amount of substances reported under PRTR※ requirements (1,000 kg/year or more handled) is shown in the table.

※PRTR System:

PRTR SYSTEM...The PRTR, or Pollutant Release and Transfer Register, was established to enable society as a whole to manage chemical substances through the disclosure of toxic chemical emissions data and other information.

Fiscal Year 2009 Yokogawa Manufacturing PRTR Data



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Factory	Factory Substance	Amount used(kg)	Amount emitted (kg)				Amount transferred (kg)	
			Air	Public water area	Soil	Landfill	Sewage system	Outside site
Komine Factory	Xylene	1,950	1,200	0	0	0	0	750
	Toluene	2,070	1,300	0	0	0	0	770
Kofu Factory	Lead	2,430	0	0	0	0	0	0
Ome Factory	Water-soluble copper salts	12,220	0	0	0	0	10	3,800
	Formalin	2,120	360	0	0	0	10	1,400

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Waste Reduction

The "3R" concept (Reduction, Reuse, and Recycling) promoted by the Yokogawa Group is indispensable to global environmental conservation. The Yokogawa Group defines zero emissions as recycling and reusing 99% or more of the total amount of waste generated. Up to now, the Yokogawa Electric Headquarter and six main factories have met the goals of zero emissions.

Unit-sales-basis Waste Emissions and Reduction Rates (Compared to Fiscal year 1995)

The waste emissions in fiscal year 2009 amounted to 0.18 t per 100 million yen on a unit sales basis (564 tons in total), and its reduction rate was 89.4%(compared to Fiscal year 1995)

Unit-sales-basis Waste Emissions and Reduction Rates (Compared to Fiscal year 1995)



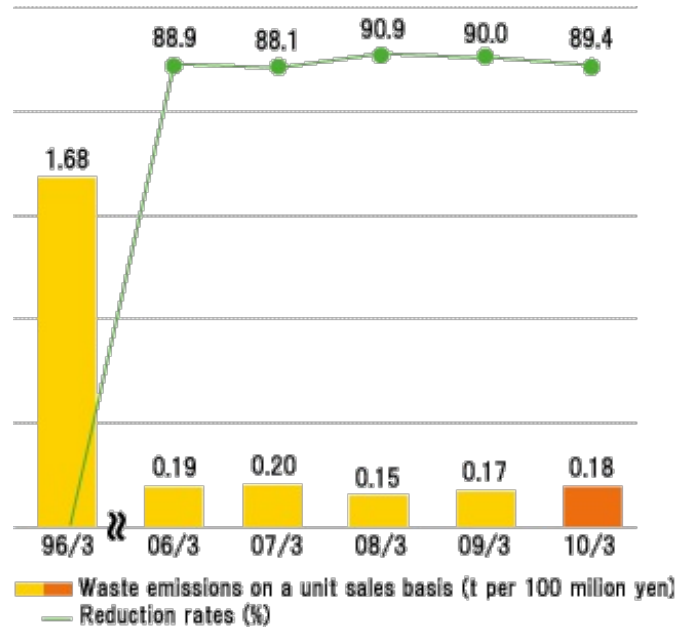
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Expanding on the Reduction of Waste Materials by Recycling Stainless Steel

At Yokogawa Manufacturing Kofu factory, the waste material team is leading the charge to promote strategies for waste material reduction. During 2009, efforts have been made to reduce the amount of waste liquids such as oil, improving collection methods, and collecting valuable resources such as stainless steel.



Nobuo Tasaka
Waste Materials Team Leader,
Yokogawa Manufacturing Kofu
Factory

Controlling the Density of Water Soluble Cutting Fluid

The density of the oil used for cutting products has been strictly controlled. This has continued since 2008, but in 2009, the number of density controlling equipment has been increased further

since 2008, but in 2009, the number of density controlling equipment has been increased further. Fine adjustments are made so that the density of the oil can be kept constant at all times, according to the capability of each equipment. As a result, the amount of oil purchased per year has been reduced from 21 tons to 10 tons (nearly one-half).

■ Improved Collection Method for Waste Liquids

In the past, waste liquids from cleaning fluids and such were collected and kept in drums (approx. 200kg capacity). By changing to vacuum collection, in which just the waste liquids are collected, the drums that were purchased (60 drums per month) for storage and disposal are now reused. In addition, collecting only the waste liquid has reduced the weight of the transported waste, which has led to a reduction in CO2 from transportation methods.

■ Recycling Metals

Metal chips generated from cutting metal materials such as stainless steels and kovar have been recycled as a valuable resource. By using compressing equipment to compress the chips and returning it to the metal material manufacturer, we have been able to recycle the metals as a better quality valuable resource. The collected stainless steels and kovar are recycled to be used for metal materials for products. A total of 62 tons of stainless steel and kovar were collected and recycled in 2009.

■ Recycling PC board Materials

In the past, used PC boards were collected for thermal recycling. However, by building a system for material recycle, the Kofu factory is now collecting PC boards as a valuable resource, because of their high copper content. With 30 tons of used PC boards disposed every year, efforts are being made to reduce cost and improve recycling.

■ White Rags Lease

Yokogawa Manufacturing Komine factory has worked on leasing white rags as part of their strategies to reduce waste. On production floors, white rags are frequently used to wipe off any oil that gets on the product or the workers' hands. In the past, the used rags were discarded as industrial wastes. By leasing the rags, the used rags are collect to be reused. In some cases that are not applicable, disposable rags are used, however, what used to be 340 kg of rags purchased every year has been reduced nearly half, contributing to reduction of industrial wastes.



Collection Boxes for Leased Rags

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Green Procurement and Green Purchases

Various laws and regulations have been put in place, such as the Home Appliance Recycling Law and Law for Promotion of Effective Utilization of Resources in Japan, as well as the Waste Electrical and Electronic Equipment (WEEE) and Restriction of Hazardous Substances in EEE (RoHS) Directives outside Japan. With this background, Yokogawa aims at building a sustainable society in various areas of its business activities.

Based on the principle "Resource procurement with less environmental load = Offering environmentally friendly products", Yokogawa proactively promotes green procurement activities that are environmentally friendly.

Green Procurement Guidelines

Under the philosophy to contribute to building a sustainable society in various areas of business activities, Yokogawa has created the "Green Procurement Guidelines" to promote green procurement activities.

Green Purchasing



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Yokogawa joined the "Green Purchasing Mass Campaign" hosted by the Green Purchasing Network, using posters, etc., to invite employees to participate.



Green Purchasing Mass Campaign poster

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Environmental Events

Holding Environmental Events

To raise each individual's interest in global environmental protection, Yokogawa actively puts on awareness campaigns within the company. Yokogawa do this by holding a yearly event dealing with environmental conservation that includes activities such as showing movies about the environment.

Holding an Environment Week

In November 2009, Yokogawa held various events in a weeklong environment awareness campaign, inviting employees to join in. Many employees came out to see "HOME," a film about the environment, take part in "Environmental Household Bookkeeping," or to answer an environment quiz. In a questionnaire survey after the film, some expressed the film prompted them to rethink what they themselves can do to conserve this beautiful earth.



A showing of the film "HOME"



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Environmental Communications

Through presentations and exhibitions that highlight its environmental activities, Yokogawa has been striving to improve their communication to disseminate information to more people.

(Award) Green IT Award Received

Yokogawa Manufacturing Kofu Factory was awarded the "Green IT Award 2009 Minister of Economy, Trade and Industry Award" for its energy-saving activities, presented by the Green IT Promotion Council.

(Award) The ESCO Business Receives the 2009 Energy Conservation Grand Prize

The ESCO business at Okinawa Hokubu Hospital, for which Yokogawa Electric served as head, received the "Energy Conservation Center Chairman Award" in the 2009 Energy Conservation Grand Prize (organization with outstanding support service).

(Presentation) Spreading the Word to the Community

Yokogawa Manufacturing Kofu Factory participated in the "Kofu Anti-Global Warming Regional Council" and gave a presentation on "Green Curtain" and "Eco-Commute Challenge," which the factory has been actively working on, to raise awareness of the environment among the residents of the city. In addition, the Kofu Factory has also participated in the "Third National Green Curtain Forum" which took place in the city of Kofu.



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(Exhibition) Participation in "Musashino Environment Festival" Hosted by Musashino, Tokyo

Yokogawa participated in "Musashino Environment Festival" in which the people in the community were introduced to different topics regarding energy conservation, waste, plants, and food. Yokogawa gave an exhibition on its energy-saving endeavors at the Kofu Factory, and introduced its own energy-saving system for water pumps, "ECONO-PILOT."



(Advertisement) Ad Placed in Nikkei Ecology

An Ad was placed in Nikkei Ecology.



Disclosure of Environmental Information

◆Web address for Yokogawa Electric's environmental activities (Japanese)

<http://www.yokogawa.co.jp/cp/csr2/env/index.htm>

◆Web address for Yokogawa Electric's environmental activities (English)

<http://www.yokogawa.com/csr/env/index.htm>

◆Web address for Yokogawa Manufacturing's environmental activities (Japanese)

<http://www.yokogawa.com/jp-ymg/corp/eco/eco-info.htm>

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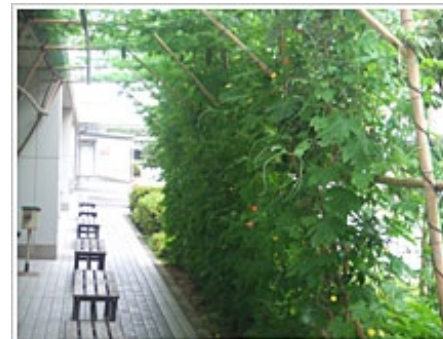
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Community-level Environmental Conservation Activities

Yokogawa is actively making environmental contributions to the community, in such areas as environmental protection and biodiversity

Green Curtain Planting Event

The Yokogawa Manufacturing Kofu factory has continually put on Green Curtain, which is one of the promotion activities of the "Kofu Anti-Global Warming Regional Council." In 2009, in the smoking area facing south, "Green Tunnel" was built using bitter melon. Furthermore, a wider variety of plants, such as pumpkin, calabash, and luffa, has also been planted.



CO2 Absorption Certificate Received

Yokogawa Electric's Kanazawa factory participated in "Forestry at the Techno-Park" hosted by the city of Kanazawa. The program was aimed at global warming prevention and global environmental conservation, and the Kanazawa factory received the Kanazawa Collaborative Forestry CO2 Absorption Certificate. The certification certifies the amount of CO2 absorbed, in one year, by the forest, which is kept well maintained through various works such as weeding and brushing, felling, and planting. In calculating the amount of CO2 absorbed by the forest, a reduction of CO2 by 10.06 tons was certified. The award was presented to the Kanazawa liaison



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group (a group of five companies, including Yokogawa Electric).

"Parent-Child Water Survey" at the Komagane Factory

The employees of Yokogawa Manufacturing Komagane factory and their families participated in "Parent-Child Water Survey," put on by Nagano Techno Foundation in an effort to restore "the clear Lake Suwa," and "the swimmable Tenryu River." In the event, the families tested and observed the water in the Tenryu River, and created a report.



Cardboard Donated to Elementary Schools

Yokogawa Manufacturing Ome factory donates unused cardboard in the factory to the elementary schools in the community to be used effectively in various school events.



Participation in "City Clean-up" Hosted by Musashino, Tokyo

The employees of Yokogawa Group and their families participated in the cleaning of areas covering three train stations (Mitaka, Kichijoji, and Musashisakai), which is held twice a year. This event, put on to prevent littering and to popularize community beautification, draws many participants each year.





Participation in "Tenryu River Environmental Picnic"

The employees of the Komagane Factory and their families participated in the cleaning of the dry riverbed of the Tenryu River, hosted by the Nagano Techno Foundation.



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Promoting Biodiversity

Yokogawa is actively contributing to the environment in the community, in such areas as environmental protection and biodiversity.

Artificial Hill Built in the Headquarters in the Image of the Woods in Musashino

In an empty lot, which was left after part of the building was torn down at the headquarters campus, an artificial hill was made by planting a green lawn and plants. The artificial hill has 37 types of plants such as serrata oak, sawtooth oak, and storax, which are designed in the image of the woods in Musashino. In addition, the azaleas planted along the walkway bloom in the spring, welcoming visitors.



Protecting Large Trees in the City of Musashino

In the city of Musashino, where Yokogawa Electric's headquarters is located, there are approximately 2,000 large trees in the city designated as "environmentally protected." It is under a program called "2000 Large Trees/Symbolic Trees Plan", which has been in place since 1994. Fifty large trees within the premise of Yokogawa Electric's headquarters have been designated under this program and are protected as such.



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"Tokyo Greenship Action": A Collaborative Effort Between Local NPO and Residents to Protect the Woodlands

Since 2009, Yokogawa has been a participant in "Tokyo Greenship Action," a collaborative effort among the city of Tokyo, local NPOs, and businesses to conserve and revive the woodlands in the hills of Tokyo, and contribute to their biodiversity.

[→ Project to Protect the Woodlands of Tokyo](#)

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department. Through this team, a company-wide effort is being made to visualize energy data and to eliminate waste in production lines, using YOKOGAWA's own products InfoEnergy and Enerize. Because energy consumption can be grasped by the facility operator in real time for each line or product, suggestions for improvements from the production floors are being made proactively.

Since the year 2000, the Kofu Factory has been proactively rolling out energy saving initiatives such as the use of inverters in lighting and large pumps, or the deployment of energy efficient equipment at various places within the factory. In order to continually foster these practices, they have required each department to set target power consumption values, and to monitor its energy consumption daily, posting them on the "action board" in their work area.

By clarifying each department's environmental goals such as target power consumption and the department in charge of each goal, there is a heightened sense of awareness among the members of the energy conservation team and members of each department. This in turn, makes this a fully participated energy conservation effort.

In addition to such low-profile activities, in 2009, the factory made efforts to reduce power consumption by controlling the air conditioning of the clean room. There is a need to maintain the air at a certain humidity and cleanliness in the clean room, so by making fine adjustments and shutting down some of the indoor and outdoor air conditioning machines afterhours for the night, an annual energy saving of approximately 360 Mwh is projected.



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