



YOKOGAWA ELECTRIC CORPORATION  
CORPORATE PROFILE  
2011

## THE YOKOGAWA PHILOSOPHY

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.

From its founding in 1915, Yokogawa Electric Corporation has contributed to society by supplying industry with cutting-edge products based on its measurement, control, and information technologies. Always sensitive to changing customer needs, Yokogawa has continued to transform itself and has become a leading company in the global industrial automation and control field. While striving to enhance our corporate value, we remain committed to doing our part as a trustworthy industry partner to realize a more prosperous society.

YOKOGAWA  
ELECTRIC  
CORPORATION

### Yokogawa's Connections to People's Lives

#### Technologies

- Measurement
- Control
- Information

#### Solutions

- Production control
- Production management
- Quality management
- Safety management
- Asset management
- Energy saving
- Electrical measurement
- Optical measurement
- Live cell imaging
- Biomeasurement
- Position control

#### Markets

- Plants
- Buildings
- Research centers
- Hospitals
- Electrical power
- Gas
- Water supply
- Communications
- Aviation and marine equipment



# BUSINESS OVERVIEW



## Industrial Automation and Control Business

Yokogawa is a leading control company and a pioneer in the development of distributed control systems for the monitoring and control of processes in a broad range of production facilities. Its comprehensive solutions range from sensors (such as pressure transmitters, flowmeters, and analyzers) to control systems, software that improves productivity, and services that optimize plant lifecycle costs. These solutions currently play vital supporting roles for our customers in the oil, chemical, natural gas, electric power, iron and steel, pharmaceuticals, food, and other industries.

Based on VigilantPlant, Yokogawa's vision for realizing the ideal plant, we are developing products and solutions that ensure safety, make maximum use of plant assets, enhance production, and optimize operations over the entire plant lifecycle.

## Test and Measurement Business

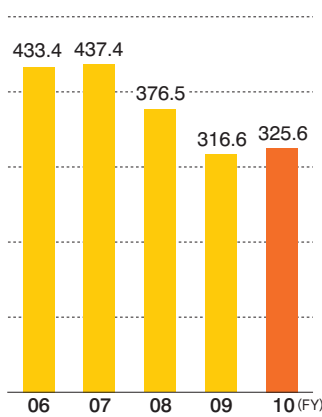
Yokogawa has been involved in the testing field since its founding and has contributed to many industries through its supply of test and measurement equipment. Yokogawa measuring instruments play indispensable roles in the development and production of electrical, electronic, and automotive equipment. The Company meets customer needs with a wide-ranging product lineup and an extensive range of calibration and other services.

Yokogawa produces testers that can handle high-speed, high-performance semiconductors, and always offers the latest testing solutions. Yokogawa is also engaged in businesses involving products such as confocal scanners for the real-time observation of life processes at the molecular level and drug discovery support systems for the automatic testing of candidate compounds, and the Company anticipates that these businesses will become market leaders.

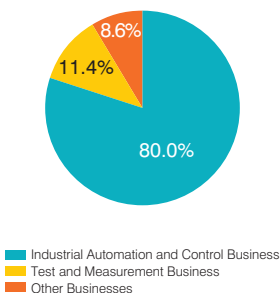
## Other Businesses

Yokogawa is steadily developing its aviation & marine engine equipment and navigation system businesses. Yokogawa supplies multifunctional flat panel displays (FPDs) for use in a wide range of aircraft, including the latest wide-body airliners from Airbus. In addition, Yokogawa supplies a full lineup of navigation systems for vessels of all kinds, from luxury passenger ships to freighters.

Net Sales  
(Billions of yen)



Net Sales by Business Segment in FY2010



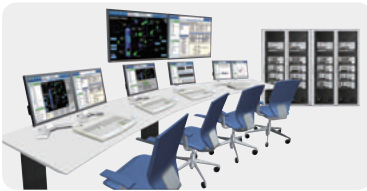


# PRODUCT INFORMATION

## Industrial Automation and Control Business

### Production Control Systems

We provide our customers with a range of systems that support the safe and efficient operation of their plants. These include highly reliable production control systems for the control and monitoring of plant operations, safety instrumented systems that are fully integrated with plant production control systems to achieve the highest levels of safety, and network-based control systems that are both highly reliable and versatile.



**CENTUM VP**  
Integrated Production Control System



**FA-M3V**  
Range-free Multi-controller



**ProSafe-RS**  
Safety Instrumented System



**STARDOM**  
Network-based Control System

### Field Instruments, Analytical Instruments, and Recorders

We offer a full lineup of field instruments for use on production lines. These include transmitters and flowmeters that measure fluid pressure, temperature, and flow rate. We supply analytical instruments such as pH analyzers and process gas chromatographs for measuring the concentrations of gas and fluid constituents. We also offer paperless recorders that electronically store measurement information and temperature controllers.



**DPharp EJX**  
Differential Pressure / Pressure Transmitter



**DXAdvanced**  
Data Acquisition and Display Station



**FLXA21**  
Modular 2-wire Liquid Analyzer



**ADMAG AXF**  
Magnetic Flowmeter



**GC1000 Mark II**  
Process Gas Chromatograph

### Energy Saving, Environmental, and New Energy Solutions

We provide systems that help manufacturers achieve energy savings and reduce costs. Our operational support systems can identify where energy is being wasted in plant operations and verify the effectiveness of corrective measures. Together with our control systems, these systems help manufacturers to make more efficient use of energy and improve overall efficiency. We offer solutions that make possible the introduction of concentrated solar power, ocean thermal energy conversion, and marine biomass technologies that are contributing to the realization of a sustainable society.

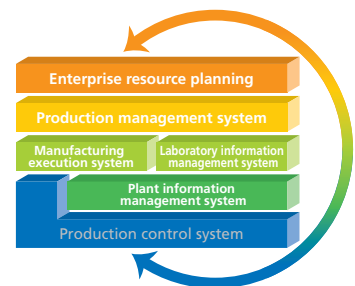


**Enerize E3**  
Factory Energy Management System

### Solutions for Manufacturers

We provide total solutions that address the entire range of company activities. These include information management solutions that enhance the visibility of manufacturing operations as well as manufacturing execution and enterprise resource planning (ERP) solutions. By bringing together the production and management domains, we make it possible for companies to manage their operations in real time, thereby maximizing efficiency and enhancing corporate value.

Solutions that directly connect production and management  
Based on the CIMVision Series Production Management Package, Yokogawa provides IT system solutions to every industry.



## Test and Measurement Business

### Measuring Instruments

Focusing on new markets such as electric vehicles, environmental measurement, and next-generation communication networks, we provide a wide range of voltage, current, electric power, optical power, and other basic measurement instruments, as well as instruments used in the measurement of waveforms and optical communications. By developing key devices in-house, we are able to create highly competitive and valuable products with the levels of excellence for which Yokogawa is well known. In response to emerging needs for the evaluation of products such as secondary batteries and LEDs, we also offer leading-edge measurement solutions that bring together our measurement and control technologies.



DL850  
ScopeCorder



WT3000  
Precision Power Analyzer



AQ7275  
Optical Time Domain  
Reflectometer (OTDR)

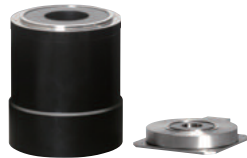


AQ6370C  
Optical Spectrum Analyzer

### Motion Control Equipment

With more than four million steps per rotation, our direct drive, high precision servomotors are capable of precise positioning without using speed reduction devices such as mechanical gears. They are utilized in a diverse range of products, including equipment that is used all over the world in the production of semiconductors, solar cells, smartphones, and LEDs.

DYNASERV  
Direct Drive Motors



### Life Science Devices

We offer a confocal scanner unit that is capable of observing life processes on a molecular level in real-time. This is also available as part of an automated microscopy system that utilizes proprietary high-precision positioning and temperature control technologies. Utilized in basic biology and medicine fields such as regenerative medicine, which has been in the spotlight in recent years, as well as in such promising growth fields as drug discovery, these devices are contributing to the development of life sciences.



CSU-X1  
Confocal Scanner Unit



CellVoyager CV1000  
Confocal Scanner System

### Semiconductor Testers

We provide our customers in the semiconductor industry with world-class testing solutions that offer the highest levels of functionality and cost performance. We have captured a high market share in this field while making major contributions to reducing testing costs, mainly for DRAM and NAND memory devices and display driver ICs.



ST6731  
FPD Driver Test System



MT6531  
Memory Test System

## Other Businesses

### Aviation Equipment

We utilize the highly reliable technologies that we ourselves developed to provide monitoring equipment and sensors for aircraft engines and fuel systems. Our flat-panel color LCDs for use in airplane cockpits feature high visibility and are environmentally resistant, and have been adopted for use in the latest Airbus wide-body airliners.

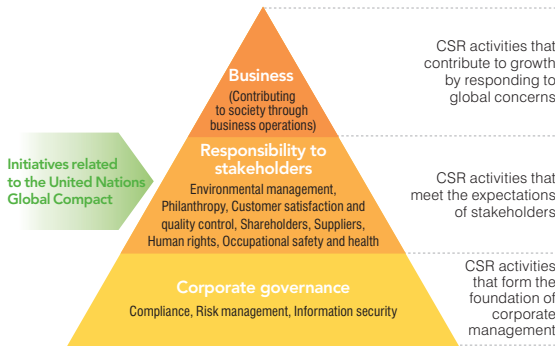


Flat Panel Displays for Aviation Use



# COMPANY ACTIVITIES

## Corporate Social Responsibility Initiatives

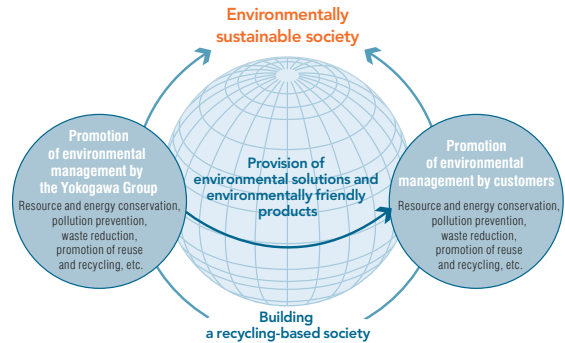


### Our Basic Stance

Yokogawa has a fundamental responsibility to contribute to society through its business operations. We work with our customers worldwide to ensure that their plants operate in an environmentally sound and safe manner. Through these efforts, we are not only achieving stable growth as a result of playing an essential industry support role, but are also fulfilling our responsibility to society. We respect international standards such as those set forth in the United Nations Global Compact, and have introduced a Group-wide code of conduct and management system to ensure their observance.

### Environmental Management

In keeping with the very high priority that the Company's management has assigned to protection of the environment, Yokogawa promotes environmental management. Throughout the entire scope of our operations, from product development to sales, we take steps to reduce the impact of our activities on the environment. Based on Yokogawa control, measurement, and information technology know-how, we offer environmentally friendly products as well as energy saving, environmental, and new energy solutions. We thus help to reduce the environmental footprint of our customers' operations and discover new energy sources.



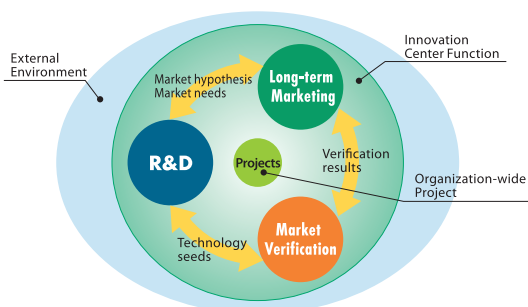
### Customer Satisfaction and Quality

We place a high priority on achieving uniform quality worldwide and instilling a quality first mindset in our workforce to keep our customers satisfied and earn their trust. Guided by the quality first principle that Yokogawa has stayed true to since its founding, we have established a quality management system that encompasses all of our business processes, from planning and development to design, manufacturing, sales, and services. To attain global uniformity in quality, all of our principal Group companies have acquired ISO 9001 certification.



*Quality in every aspect begins with the mind*

## Research and Development



Innovation Center

The three functions of long-term marketing, R&D, and market verification are integrated here for the formulation and validation of hypotheses about promising businesses of the future.

### Basic Stance and Role

To provide leading-edge "mother tools" and basic technologies to industry, Yokogawa recognizes that the future-oriented development of new technologies is one of its important challenges. Our R&D activities center on new product development and applied research for the near-term foreseeable future and on the creation of new business opportunities for the more distant future. Our business headquarters carry out the first type of research, while our Innovation Center handles the second type.



## CORPORATE INFORMATION

### Corporate Data (As of March 31, 2011)

<b>Corporate Name</b>	Yokogawa Electric Corporation
<b>President and CEO</b>	Shuzo Kaihori
<b>Headquarters</b>	2-9-32 Nakacho, Musashino-shi, Tokyo 180-8750, Japan
<b>Founded</b>	September 1, 1915
<b>Incorporated</b>	December 1, 1920
<b>Paid-in Capital</b>	43,401 million yen
<b>Number of Employees</b>	19,334 (consolidated) 4,723 (non-consolidated)
<b>Subsidiaries and Affiliates</b>	17 subsidiaries and 3 affiliates in Japan 69 subsidiaries and 1 affiliate outside Japan



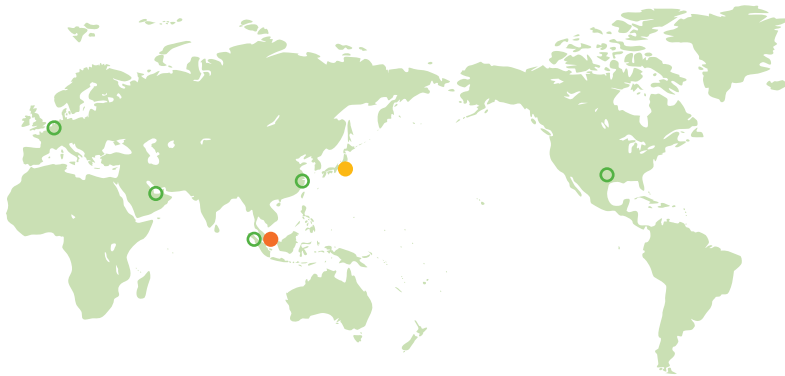
Corporate Headquarters

### History

- 1915** Tamisuke Yokogawa, Doctor of Architectural Engineering, established an electric meter research institute in Shibuya, Tokyo, with Ichiro Yokogawa and Shin Aoki
- 1917** First to produce and sell electric meters in Japan
- 1920** Incorporated as Yokogawa Electric Works Ltd.
- 1933** Started research and manufacture of aircraft instruments and flow, temperature, and pressure controllers
- 1948** Made public offering of the Company's stock
- 1950** Developed Japan's first electronic recorder
- 1955** Signed a technical assistance agreement for industrial instruments with Foxboro, USA
- 1957** Established Yokogawa Electric Works, Inc. as North American sales office
- 1964** Made a full-scale entry into the industrial analyzer market
- 1966** Developed and started manufacture and sale of vortex flowmeter
- 1974** Established Yokogawa Electric Singapore Pte. Ltd. as Singapore plant  
Established Yokogawa Electric (Europe) B.V. as European sales office
- 1975** Released CENTUM, the world's first distributed process control system
- 1983** Formed Yokogawa Hokushin Electric Corp. through merger with Hokushin Electric Works, Ltd.
- 1984** Released Model 3520 Analog LSI Test System and entered IC tester field
- 1986** Established Xiyi Yokogawa Co., Ltd. in Xian, China, jointly with Xian Instruments Factory  
Changed the Company name to Yokogawa Electric Corporation
- 1988** Entered the high-frequency measuring instrument business
- 1990** Established Yokogawa Middle East E.C. in Bahrain
- 1996** Released confocal scanner and entered biotechnology business
- 2000** Announced the new VISION-21 & ACTION-21 corporate strategy
- 2004** Fully integrated Ando Electric's business
- 2005** Established Yokogawa Electric International Pte. Ltd. in Singapore to oversee global industrial automation business
- 2008** Entered the drug discovery support market with a new bio test system
- 2010** Transferred the measuring instruments business to Yokogawa Meters & Instruments Corporation
- 2011** Spun out the semiconductor tester business and established Yokogawa Test Solutions Corporation



## GLOBAL NETWORK



- Yokogawa Electric Corporation
- Yokogawa's International Business Headquarters
- Regional Support Offices

### North America

#### United States

- Yokogawa Corporation of America
- Yokogawa USA, Inc.
- Yokogawa Nuclear Solutions, LLC

#### Canada

Yokogawa Canada, Inc.

#### Mexico

Yokogawa de Mexico, S.A. de C.V.  
Yokogawa Engineering Services de Mexico, S.A. de C.V.

### South America

#### Brazil

Yokogawa America do Sul Ltda.  
Yokogawa Service Ltda.

### Europe

#### Netherlands

- Yokogawa Europe B.V.
- Yokogawa Europe Solutions B.V.
- Yokogawa Europe Branches B.V.

#### Austria

Yokogawa GesmbH, Central East Europe

#### Belgium

Yokogawa Belgium N.V./S.A.

#### France

Yokogawa France S.A.S.

#### Germany

Yokogawa Deutschland GmbH  
Rota Yokogawa GmbH & Co. KG

#### Hungary

Yokogawa Hungaria Kft.

#### Italy

Yokogawa Italia S.r.l.

#### Spain

Yokogawa Iberia S.A.

#### Sweden

Yokogawa Measurement Technologies AB

#### United Kingdom

Yokogawa United Kingdom Limited  
Yokogawa Measurement Technologies Ltd.  
Yokogawa Marex Limited

#### Russia

Yokogawa Electric CIS Ltd.  
Yokogawa Electric Sakhalin Ltd.

#### Kazakhstan

Yokogawa Electric Kazakhstan Ltd.

### Africa

#### South Africa

Yokogawa South Africa (Pty) Ltd.

#### Nigeria

Yokogawa Nigeria Limited

### Middle East

#### Bahrain

- Yokogawa Middle East B.S.C.(c)
- Yokogawa Engineering Bahrain SPC

#### Saudi Arabia

Yokogawa Saudi Arabia Ltd.  
Yokogawa Services Saudi Arabia Ltd.

#### United Arab Emirates

Yokogawa Engineering Middle East FZE

### Oceania

#### Australia

Yokogawa Australia Pty. Ltd.

#### New Zealand

Yokogawa New Zealand Ltd.

### Asia

#### Singapore

- Yokogawa Electric International Pte. Ltd.
- Yokogawa Engineering Asia Pte. Ltd.
- Yokogawa Electric Asia Pte. Ltd.
- Plant Electrical Instrumentation Pte. Ltd.
- Yokogawa Reinsurance Pte. Ltd.

#### Indonesia

P. T. Yokogawa Indonesia  
P. T. Yokogawa Manufacturing Batam

#### Malaysia

Yokogawa Electric (Malaysia) Sdn. Bhd.  
Yokogawa Kontrol (Malaysia) Sdn. Bhd.  
Yokogawa Industrial Safety Systems Sdn. Bhd.

#### Philippines

Yokogawa Philippines Inc.

#### Thailand

Yokogawa (Thailand) Ltd.

#### Vietnam

Yokogawa Vietnam Company Ltd.

#### India

Yokogawa India Ltd.  
Yokogawa IA Technologies India Private Limited

### China

- Yokogawa China Co., Ltd.
- Yokogawa Electric China Co., Ltd.
- Yokogawa Sichuan Instrument Co., Ltd.
- Suzhou Yokogawa Meter Company
- Yokogawa Shanghai Instrumentation Co., Ltd.
- Yokogawa Shanghai Trading Co., Ltd.
- Yokogawa Process Control (Shanghai) Co., Ltd.
- Yokogawa Information Systems (Dalian) Corporation
- Yokoshin Software Engineering (WUXI) Co., Ltd.

### Korea

Yokogawa Electric Korea Co., Ltd.  
Yokogawa Measuring Instruments Korea Corp.  
Yokogawa Electronics Manufacturing Korea Co., Ltd.

### Taiwan

Yokogawa Taiwan Corp.

### Subsidiaries and Affiliates in Japan

Omega Simulation Co., Ltd.  
YDC Corporation  
Yokogawa & Co., Ltd.  
Yokogawa Digital Computer Corporation  
Yokogawa Denshikiki Co., Ltd.  
Yokogawa Field Engineering Service Corporation  
Yokogawa Foundry Corporation  
Yokogawa Manufacturing Corporation  
Yokogawa Medical Solutions Corporation  
Yokogawa Meters & Instruments Corporation  
Yokogawa Pionics Co., Ltd.  
Yokogawa Solutions Corporation  
Yokogawa Test Solutions Corporation  
Q&A Corporation  
Yokogawa Organization Resources Counselors Corporation  
Yokogawa Rental & Lease Corporation

## Yokogawa Electric Corporation

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