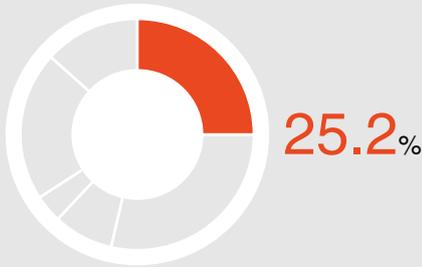


Energy and Electric Systems

Revenue Breakdown by Business Segment



Revenue

¥1,296.7 billion
up 3% year on year

Operating Profit

¥82.5 billion
up ¥17.0 billion year on year

The social infrastructure systems business remained substantially unchanged in orders compared to the previous fiscal year, while revenue increased compared to the previous fiscal year due primarily to increases in the transportation systems business inside and outside Japan and the power systems business in Japan.

The building systems business remained substantially unchanged in both orders and revenue compared to the previous fiscal year, experiencing a decrease in the new installation of elevators and escalators in China and buoyant growth in the renewal business in Japan and other factors.

As a result, revenue for this segment increased by 3% from the previous fiscal year to 1,296.7 billion yen. Operating profit increased by 17.0 billion yen from the previous fiscal year to 82.5 billion yen due primarily to an increase in revenue.

Next-generation SiC Inverter for Railcars

Mitsubishi Electric has developed and provided a traction inverter for railcars that incorporates silicon carbide (SiC), a new type of semiconductor. This new inverter, with its energy-efficient, compact, lightweight, low-maintenance, and low-noise design, contributes to play a major role in next-generation railcar propulsion systems.



Large-scale Visual Information System

Offerings in the Mitsubishi Electric Group's lineup of large-scale visual information systems boast Diamond Vision™—a technology that helps fuel audience excitement in such venues as stadiums—along with cutting-edge information distribution platforms that employ the internet and data broadcasting. As such, the Group provides visual information systems that enrich people's lives in various ways.



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D-SMiree Smart Power Distribution Network Systems for Medium or Low Voltage Direct Current

In response to growing calls for standalone power distribution structures in which individual buildings' electricity needs are met by discrete on-site generation facilities, Mitsubishi Electric has created the Energy Management System (EMS), which is specifically designed for direct current distribution. Boasting predictive functions covering both generator output and electricity demand, the EMS helps control charging and discharging schedules to best utilize direct current generated by photovoltaic generators as well as that released from batteries, thus eliminating energy loss attributable to conversion to alternating current.



Power Plants

Mitsubishi Electric provides power system equipment for various power plants, which play a major role in power supply and are required to further reduce environmental impact. With high efficiency turbine generators and instrumentation control systems that combine advanced network and measurement technologies, Mitsubishi Electric power plants realize improved reliability and cost efficiency.



NEXIEZ Machine-room-less Elevators

Compact, lightweight, and energy-saving, NEXIEZ machine-room-less elevators are the global flagship product. They are widely used throughout the world, mainly in low- to mid-rise buildings. Models designed with various functions and features for specific regions are also available to meet the preferences and customer needs of each region.



Series Z Escalators

The Z-Series escalators offer enhanced safety through several features that ease stepping on/off and help prevent clothing from getting caught, so that passengers of all ages, from small children to the elderly, can use the escalators safely. They also offer a higher level of energy conservation by providing optional features such as VVVF inverters. Environmentally friendly, people-friendly, and beautiful, the Z-Series show the future of escalators.



Revenue Breakdown by Business Segment



Revenue

¥1,467.6 billion
up 2% year on year

Operating Profit

¥142.5 billion
down ¥44.7 billion year on year

The factory automation systems business saw decreases in both orders and revenue from the previous fiscal year due primarily to a decrease in capital expenditures in the fields of organic light emitting diodes (OLED) and smartphones outside Japan, despite buoyant demand in Japan.

The automotive equipment business saw increases in both orders and revenue from the previous fiscal year due primarily to increases in Japan, Europe and other markets in Asia, as well as increased revenue in electric-vehicle related equipment in response to market growth worldwide.

As a result, revenue for this segment increased by 2% from the previous fiscal year to 1,467.6 billion yen. Operating profit decreased by 44.7 billion yen from the previous fiscal year to 142.5 billion yen due primarily to a shift in product mix, increases in material prices and upfront investment for growth drivers.

Programmable Logic Controllers

Mitsubishi Electric's MELSEC series of programmable logic controllers supports a wide array of production and social infrastructure applications; solutions range from control and safety devices to information and instrumentation management. As a leading global brand, the MELSEC series contributes to the construction of cutting-edge control systems owing to its capabilities, performance, product variety, and high reliability.



AC Servos

The MELSERVO Series enhance all aspects of production devices and facilities. From rotary servo motors to linear servo motors and direct drive motors, a wide range of products is available to meet any number of applications and to significantly improve the performance of all relevant devices.



Computerized Numerical Controllers—CNCs

A broad range of CNCs is available. Including, for example, the M800/80 Series, which increases productivity and precision and optimizes machine tool operation through an independently developed dedicated CPU and abundant control functions. It is also compatible with the various field networks that are necessary for constructing automation systems.



Electrical Discharge Machines (EDMs)

Beginning with the newly launched MP series, a strategic product on a global scale, Mitsubishi Electric provides a lineup of EDMs that add value and improve the manufacturing productivity of molds and precision components. Such equipment is indispensable to the production of automobiles, home electronics, and IT-related devices.



Electric Power Steering (Motors and Controllers)

Mitsubishi Electric was the first company in the world to mass produce motors and controllers for electric power steering to assist driver steering in line with driving conditions. Over the years, Mitsubishi Electric has helped to improve steering feel, response, and stability while delivering compact units and high-output performance, and contributing to reduced automobile CO₂ emissions.



Car Navigation System

The DIATONE SOUND. NAVI car audio-navigation system eliminates the slight noise generated by audio devices and transmits sounds in full detail. In addition, it provides high-speed multi-task processing, fast responsiveness when searching and scrolling and beautiful images on the map screen and in video playback.



Information and Communication Systems

Revenue Breakdown by Business Segment



Revenue

¥426.2 billion
down 3% year on year

Operating Profit

¥12.2 billion
up ¥0.9 billion year on year

The telecommunications systems business saw decreases in both orders and revenue compared to the previous fiscal year due primarily to decreased demand in communications infrastructure equipment.

The information systems and service business remained substantially unchanged in orders, while revenue increased compared to the previous fiscal year owing to an increase in the system integrations business.

The electronic systems business saw a decrease in orders compared to the previous fiscal year mainly due to a decrease in the space systems business, while revenue experienced a decrease compared to the previous fiscal year due primarily to a decrease in the defense systems business.

As a result, revenue for this segment decreased by 3% from the previous fiscal year to 426.2 billion yen. Operating profit increased by 0.9 billion yen from the previous fiscal year to 12.2 billion yen due primarily to a shift in project portfolios.

Information System Integrated Control Center

Specialist engineers are available 24/7 to remotely operate and monitor client information systems and to analyze and determine any problem that might occur using automated tools, enabling a rapid response to any system malfunction.
(Mitsubishi Electric Information Network Corporation)



“kizkia”: Video Analysis Solution using Artificial Intelligence

Powered by AI, this system can identify attributes of persons or things and automatically recognize their movements, conditions and situations by analyzing security footage in real-time. It notifies irregular situations which may require staff’s support but would otherwise been overlooked by human observers. The system also makes it possible to support forecasting future conditions.
(Mitsubishi Electric Information Systems Corporation)



DS2000 Standard Satellite Platform

The DS2000 is a standard satellite platform modeled after JAXA’s ETS-VIII. It meets the need for high-quality, low-cost satellites with shortened delivery times. It has already been adopted for use by Japan and other countries; more than ten satellites currently in orbit use it. It will eventually be incorporated into JAXA’s Engineering Test Satellite 9, which is being launched in response to the need for high-throughput communications satellites.



Vehicle-mounted Stations for Satellite Communications

Vehicle-mounted satellite communication equipment enables transmission of video and audio for broadcast news (satellite news gathering) and information for disaster management. Mitsubishi Electric products are employed by Japanese broadcasters, the public sector, and infrastructure companies such as gas and electricity utilities.



Broadband Optical Access Systems

Mitsubishi Electric is progressively installing Gigabit Ethernet Passive Optical Network (GE-PON) systems, which play a central role in broadband services. The need for GE-PON systems is steadily expanding due to high-capacity broadband content, including the increased use of visual services.

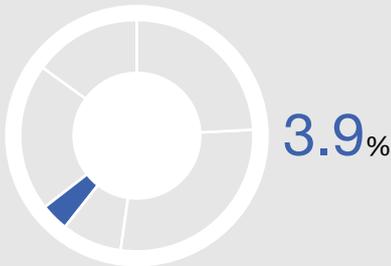


Network Camera System

This Network Camera System meets the expanding range of needs for video surveillance systems, which is achieved through new digital technology incorporated into its high-resolution megapixel camera and its high level of scalability, which can accommodate even large-scale systems.



Revenue Breakdown by Business Segment



Revenue

¥199.9 billion
down 1% year on year

Operating Profit

¥1.4 billion
down ¥12.7 billion year on year

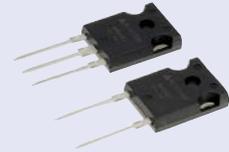
The electronic devices business saw a decrease in orders and revenue fell by 1% from the previous fiscal year to 199.9 billion yen mainly due to decreased demand for optical communication devices.

Operating profit decreased by 12.7 billion yen from the previous fiscal year to 1.4 billion yen due primarily to a decrease in revenue and a shift in product mix.

1200V SiC^{*1}-SBD^{*2}

By utilizing SiC, power loss is significantly reduced compared to Si (silicon). It achieves high-speed switching and downsizing of peripheral components, such as reactors, and will be instrumental in reducing power loss and downsizing for the power supply systems for infrastructure, photovoltaic power systems and charging equipment for electric vehicles.

*1 SiC: Silicon Carbide
*2 SBD: Schottky Barrier Diode



MISOP™ Surface-Mount Package IPM* Series

Downsizing, design simplification, and design flexibility of inverter systems of equipment such as fan motors of air conditioners are improved by utilizing a surface-mount package that allows reflow soldering, and by implementing optimized terminal layout and various ICs with protection functions.

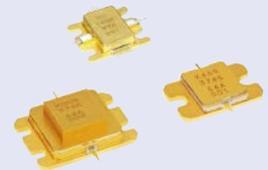
*IPM: Intelligent Power Module



GaN^{*1} High Frequency Devices for Satellite Earth Stations

These power amplifier GaN high frequency devices are suitable for satellite communication system earth stations, which are used for high-speed communication during natural disasters and in areas where ground networks are difficult to construct. This lineup of industry top-level^{*2} output power products will answer various needs related to satellite earth stations.

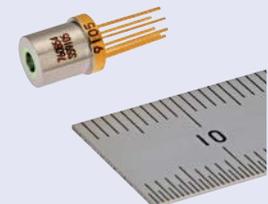
*1 GaN: Gallium Nitride
*2 Based on Mitsubishi Electric research as of September 27, 2016; compared with Ku-band GaN HEMT devices for use in satellite earth stations



25 Gbps EML^{*1} CAN^{*2} for 5G Mobile Base Stations

This is a high-speed optical data transmission device for radio access networks within fifth-generation (5G) mobile base stations. With 25 Gbps transmission speed, higher data volumes for mobile communication systems and a 40% reduction in power consumption are achieved, contributing to mobile communications systems with low power consumption.

*1 EML: Electro-absorption Modulator Laser
*2 CAN (TO-CAN): Package with excellent productivity (for mass production) that is widely used in optical data transmission devices



TFT LCD Modules with Touch Panels for Industrial Use(7.0-inch WXGA,10.4-inch SVGA,15.0-inch XGA)

TFT-modules with projected capacitive touch panels using cover glass of up to 5 mm thick, support maximum ten-point multi-touch operation, and can be used even when using with thick, heat resistant gloves or when the screen is wet. They are ideal for outdoor applications that require impact resistance and water spill compatibility.



7.0-inch WXGA

Established Mass-Production Technology for Curved Color TFT-LCD Module and Began Taking Orders

Mitsubishi Electric has established mass-production technology for a new curved (concave) color TFT-LCD module that combines environmental ruggedness to withstand extreme temperatures and an attractive design, making it ideal for use in automobiles and boats. The module offers a curvature radius* from 700 mm to less than 1,000 mm and optical performance equivalent to that of flat screens. Mitsubishi Electric has started accepting orders for the new module.

* Value of the radius of the curve if the curvature arc extended to a circle. The smaller the value, the higher the curvature.



Curvature radius: 800 mm

