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Contributing to Facility Safety and Security and Higher Productivity throughout the Lifecycle

With the aging of Japan's factories, an increasing amount of infrastructure equipment and machinery is due for renewal, and the demand is growing for products and equipment that offer improved safety and security, as well as higher productivity and energy savings.

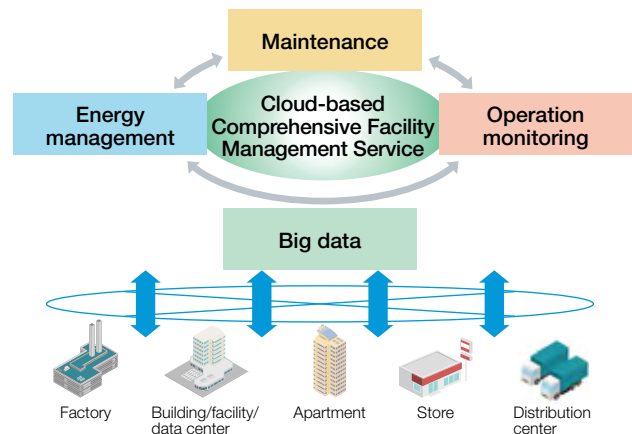
Fuji Electric provides its customers with a wide range of maintenance services throughout the product and equipment lifecycle, from management support and preventative maintenance, to improvement proposals and renewal plans. This contributes to stabilizing operations, reducing overall costs and improving productivity.

Providing Maintenance Services by Product and Equipment Lifecycle



Topic Developing a Cloud-based Comprehensive Facility Management Service System

In addition to the above lifecycle services, we have also developed a service that incorporates the functions of an energy management system on an integrated cloud platform. Operational status can be monitored in a cloud environment, while integrated management of various types of information provides appropriate support for maintenance, inspection, repair and renewal.



Maintenance Services Supporting Stable Data Center Operations

Fujitsu Limited's Tatebayashi System Center is Japan's most advanced data center, offering the country's highest level of information system services. Data from a wide range of corporations is stored on its servers, and the company also assists its customers with system operations. Because customers can enjoy significantly reduced costs compared with managing their own servers, the center has seen data volumes increase along with the number of customers year by year.



Exterior of the Tatebayashi System Center (illustration)

Data centers managing such enormous volumes of data are truly the heart of the customer's business. Security measures must of course be thorough, and power outages must also be avoided because resulting loss of data would directly affect the customer's business. To maintain appropriate temperatures, cooling and ventilation systems also operate 24 hours a day. Given the amount of electrical power required by these data centers, maintaining a quality supply of power and saving energy are massive challenges.

Since the center was established in 1995, Fuji Electric has provided it with substation equipment for converting power to the appropriate voltage, and with uninterruptible power systems (UPS) and other equipment for ensuring a stable supply of power. Because data centers operate 24 hours a day, 365 days a year, backup systems for this kind of equipment are always in place. Still, should a fault occur, service staff must immediately head to the center regardless of the time of day or night, resolve the problem, and implement measures to prevent a recurrence. To prevent these



Substation equipment

kinds of problems, we emphasize regular equipment diagnostics and preventative maintenance. Also, to ensure live data centers are not affected by such problems, we conduct annual systematic maintenance and inspection of substation equipment and UPSs by shutting down individual systems in order and, if necessary, replacing parts and so forth.

Over the 20 years since the center's establishment, we have built a relationship of trust with the client through this kind of day-to-day management, and by offering energy-saving proposals tailored to the client's needs, as well as renewal planning. We will contribute to the next generation of data centers by leveraging our experience in providing and maintaining data center equipment and our expertise in introducing smart technologies in other fields.



Inspecting a UPS unit

Voice

Message from a Customer



Hiroshi Baba
Expert, Energy Management Department
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We have been using substation equipment and UPSs from Fuji Electric since the center's establishment. Their service staff help ensure stable operation by providing detailed equipment diagnostics and preventative maintenance, and our on-site staff rate their capabilities highly. They also offer technical advice during the renewal planning process.

Today, many IT-related firms have entered the data center business, and competition is intensifying. For customers using these services, cost is of course a factor, but safety and reliability are also extremely important. To ensure we are able to provide our customers with even better service, we will continue to strengthen our relationship with Fuji Electric.