



Vertiv™ Energy Power Management Systems

Improve Power Monitoring,
Management, and Control
with Analytics and
Automated Processes



Run Your Mission-Critical Business with Greater Precision

Almost every business has mission-critical systems, which power operations and enable the delivery of vital services. Utilities strive to ensure a continuous flow of power to supply area businesses and homes. Healthcare organizations need to keep medical support technology always online, so that clinicians can work with patients. Automotive and other manufacturers use electricity to keep operational technology up and performing, so workers can drive production throughput and ensure product quality. And retailers rely on power to keep ecommerce sites functioning and point-of-sale terminals operational, so that they can maximize sales and revenue. For almost all, running mission-critical operations requires the cloud. Some 97 percent of businesses use multi-cloud strategies to enable the delivery of their mission-critical services.¹ That puts more pressure on the hyperscalers, colocation providers, and managed service providers who serve these businesses. They use electricity to power their state-of-the-art data centers and deliver the digital infrastructure and services used by millions of customers.

Unplanned downtime can negatively impact service delivery, the customer experience, and revenues. For digital infrastructure operators, 60 percent of failures cost more than \$100,000, while 15 percent deliver losses of \$1M or more.² As a result, facilities and electrical engineering teams at enterprises, infrastructure providers, and data center operators work closely together to understand power flows, identify anomalies, and take proactive actions to mitigate known and unknown risks. They also want their energy management system to automatically detect a failure and switch instantly from a primary to alternate power source, restoring electrical supply and ensuring high availability of operational technology.

Increase Power Visibility and Control with Vertiv EPMS

Vertiv™ Energy Power Management System (EPMS) provides infrastructure to deliver software and digital services that increases visibility into – and control over – facility power operations. Teams gain the insights they need to make continuous improvements to power operations, while the EPMS automatically detects when the grid or batteries are no longer supplying power and switches over to alternative power sources, such as a generator and uninterruptible power supplies (UPSs).

Electrical power is protected, and businesses maintain their reputation for resiliency and high availability of operational technology.

Customers work with Vertiv to design and customize their EPMS solution to their unique requirements.

Vertiv™ EPMS includes:

- Embedded operational controls for equipment that offer basic system functionality.
- Asset and facility software that can be deployed on-premises or in the cloud.
- Monitoring, management, and control tools that enable teams to track and analyze device performance and health; perform ongoing maintenance and management tasks; and leverage advanced technology to optimize processes.
- Data lake integration, centralizing data from equipment processes and enabling digital services.
- Digital services, ranging from anomaly detection and notification; to event and fault recording and troubleshooting; commissioning support; remote monitoring; condition-based monitoring, and more.

¹ *Virtustream press release.*

² *Uptime Institute 2022 Outage Analysis.*

Deploy Vertiv™ EPMS to Increase the Efficiency of Electrical Systems

Teams that choose Vertiv™ EPMS bring more visibility and control to power operations, at individual facilities and across global networks. Vertiv EPMS provides functionality, data, alerts, and reporting that teams can use to maintain uptime and create a culture of continuous improvement, identifying and mitigating risks and improving processes.

Organizations that deploy Vertiv EPMS:

Can customize their solution:

Vertiv EPMS includes an end-to-end system which is fully customizable. Customers can elect to deploy the entire system or discrete solutions, source hardware and vendor from their preferred vendors, and work with the Vertiv team to design an EPMS that meets their unique requirements.

Benefit from an automated solution:

Mission-critical businesses need continuous power availability and are expanding all the time. That's why Vertiv EPMS provides digital monitoring and control capabilities that can be scaled across the fast-growing electrical networks that support vital business operations. And in the event of a fault, the system automatically reroutes power from a primary source to alternative sources, maintaining the continuity of operations. Keeping operations up ensures high availability of systems and prevents sales and revenue losses down to outages.

Gain a better user experience:

Vertiv EPMS can be customized to meet business requirements and enhanced with equipment sensor data, to provide enhanced monitoring capabilities. The solution can also be accessed from mobile devices and automatically adjusts to the correct screen size, streamlining troubleshooting and team collaboration

Acquire insights to improve performance:

Vertiv EPMS provides a wealth of functionality and insights that can be used to improve power performance. Analytics enable both proactive and predictive maintenance, ensuring continuous power flow and extending equipment lifespans. Vertiv finds that many firms can achieve annual power cost savings of up to 20 percent and beyond by making improvements that boost performance, such as equipment maintenance or upgrades.

Leverage data to improve energy sustainability:

With detailed insights into how energy is consumed, teams can identify opportunities for improving sustainability. These opportunities include reducing energy waste, decreasing overall power consumption, increasing use of renewables, and making business units pay for the carbon emissions they create.

Simplify equipment lifecycle processes:

Vertiv also provides an end-to-end solution that businesses can select to streamline processes, from equipment procurement to equipment. Buyers can obtain all of their medium-and low-voltage power distribution equipment from Vertiv, including battery energy storage systems (BESSs), electrical switchgear, powerbars, uninterruptible power supplies (UPSs), and more. Obtaining equipment from a single trusted provider can help streamline key processes, from procurement, to installation, maintenance, training, and beyond, bringing consistency to global operations.

Leverage our power talent:

Vertiv has a dedicated team of energy management and power automation and control engineers who are strategically located around the world. Our engineers consult with clients and develop, customize, test, and implement solutions to meet their specific requirements. Customers gain a solution that helps them drive cost savings by optimizing processes and drive revenues by offering new services. Vertiv also provides security updates and patches to protect customers from the latest threats.

Get Started Optimizing Power Processes Today

Bring greater clarity and control to your mission-critical business with Vertiv EPMS. Gain the granular insights and tools you need to drive performance, maintain uptime, and reduce power consumption and costs.

Learn more about Vertiv™ Energy Power Management System.



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