# Schneider energy management system

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Our energy management system (EMS) provides transmission operators with greater insight into transmission and subtransmission networks, with the ability to operate either as a standalone system or fully integrated with our advanced distribution management system (ADMS). With applications for state estimation, load flow, optimal power flow, contingency analysis, fault calculation, optimal topology change, performance indices, and voltage stability, our EMS allows utilities to better visualise, operate, optimise, and maintain transmission and subtransmission networks.

Energy Management Systems (EMS) enable real-time monitoring, control, and optimisation of the electrical grid. They enhance efficiency, reduce operational costs, and seamlessly integrate renewable energy sources, ensuring a resilient and sustainable energy infrastructure.

It stands for energy management system. According to energy management system definitions, it is software that enables much better monitoring, control, and optimisation of energy usage for organisations in their network infrastructure and other parts of the businesses. These are network monitoring tools that visualise energy consumption patterns. EMS helps in identifying areas with inefficiency. Once these regions are located, it is possible to implement a wide range of methods for waste reduction in the case of transmission and subtransmission networks.

Many of us have been wisely taught that we should “always use the right tool for the job." Doing so saves time and effort in the end and produces better results. For example, just because you can use a wrench to pound nails doesn"t mean you should. It might work, but it"s an inefficient process that ultimately bends and ruins the nails. There are far better ways to approach the task.

Facilities managers often struggle with a similar concept when managing energy consumption and operational efficiency. Do I need a building management system (BMS), energy management system (EMS), or both? They ask, "What is the right tool for this job?"

Let’s examine the distinct roles these two systems play in facilities management and consider how integrating an EMSinto a facility can improve operational efficiency, sustainability, and cost-effectiveness.

A BMS primarily manages HVAC, lighting, and occupancy levels to ensure a comfortable environment. It adjusts the building operations to the needs of its occupants, balancing comfort with energy efficiency. While it can read data from connected energy monitoring components and display basic units like kW, KVA, and kVAR, its capabilities in deep energy analysis are limited. It is possible to repurpose a BMS to measure other parameters, but this requires significant reprogramming hours, retesting, and recommissioning. It’s simply not designed to manage energy.

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An energy management system is a critical asset for power system optimization. With precise, high-resolution views of power quality and electrical events, it predicts maintenance requirements for equipment like breakers and transfer switches and analyzes and identifies core electrical needs. These systems can determine the source of power issues, enhancing the facility’s response to and resolution of such events:

An energy management system (EMS) has many capabilities and benefits that differ from those of a BMS. It can track energy consumption in real time, identify inefficiencies in the electrical network, find new process efficiencies, and report and reduce energy consumption, carbon footprint, and costs. It’s the tool to use for operational efficiency and sustainability. With deep analytical insights, foresight into power system performance, and comprehensive energy oversight, an EMS is indispensable for modern facilities.

Learn more about Schneider Electric’senergy management systemsand itscommitment to a sustainable future, or feel free tocontact usat FTI to discuss how we can help you drive your sustainability goals with data.

The EcoXpert Partner Program is unique and comprises a best-in-class, global ecosystem of expertise. Trained and certified by Schneider Electric,EcoXpert partners digitize and electrify our world for a more sustainable future.

The path to net zero is about delivering solutions for sustainable, resilient, efficient, and people-centric buildings.For our EcoXpert partners, this unveils immense growth opportunities through the transition to end-to-end portfolio sales that will resolve our customers’ most critical needs.For our shared customers, this means that together with our EcoXpert partners, we will drive the building industry transformation and help our customers survive and thrive today - and tomorrow.

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