

## Energy monitoring and control system

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Massaro, A.; Starace, G. Advanced and Complex Energy Systems Monitoring and Control: A Review on Available Technologies and Their Application Criteria. *Sensors* 2022, 22, 4929. <https://doi/10.3390/s22134929>

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A smart energy management system starts with Energy monitoring, the systematic monitoring, recording, and visualization of energy usage that may span an entire facility or focus on individual assets. Energy monitoring software is crucial in providing valuable insights that enable effective energy control, cost savings, and conservation, as well as data to prepare a sustainable development strategy.

To upgrade one step further from an energy monitoring system, an effective energy management system



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empowers facility managers to automate decisions based on truly data-driven insights. Corrective measures to ensure energy savings & energy -efficiency can be deployed via sensors, ranging from Air Quality Monitors, to HVAC control systems, and Smart Lighting.

Energy efficiency brings significant benefits to businesses, whether in terms of cost reduction or environmental impact mitigation. The Carbon Trust highlights that most businesses can achieve a minimum 10% reduction in energy costs, and often up to 20%, through straightforward actions yielding rapid returns.

Monitoring the results and the extent of improvement with each change becomes crucial, as it helps identify the most effective modifications and potential areas for further enhancement. To achieve maximum energy efficiency, an ongoing refinement of your sustainable development plan is essential to align with current challenges. Upgrading to a smart energy management system makes the facility management process more efficient and accurate.

Companies will be affected by the increase in carbon tax rates, which will continue rising exponentially until 2030. From 2024 onwards, it will be required to track consumption submit reports to verify carbon emissions.

With an energy management system, owners will be able to view real time data from their facilities and in addition, set consumption benchmarks to ensure energy savings.

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