Meazon
Energy Efficiency
Service (EES)

INTRODUCTION

Introducing Meazon's Energy Efficiency Service (EES) for buildings and sites based on our end-to-end energy management solution, the ultimate tool for energy efficiency, automation, and cost savings. With its scalable design, easy installation, and low total cost of ownership, our solution is the answer to all your energy management needs.

WHAT WE DO

Our end-to-end service provides continuous monitoring and management of your building interiors, ensuring optimal working conditions, and comfort while optimizing energy efficiency. Our customizable and user-friendly platform allows you to visualize real-time data from your building's energy Meazon meters and controllers and from existing analog or digital sensors or new Zigbee sensors. You can generate reports, suggestions, and alerts with the help of our advanced artificial intelligence capabilities.

Our solution enables you to monitor energy data in real time across multiple geographically distributed spaces and buildings, creating a reliable energy model for valuable insights into energy consumption. We introduce intelligence in building management using sensors to monitor environmental conditions such as humidity, temperature, and air quality in combination with energy consumption, lighting levels, and building usage. Our advanced algorithms and machine learning technologies help optimize working conditions while saving significant resources.

Our solution also enables real-time load control and air conditioning/ventilation management, optimizing energy consumption while maintaining optimal working conditions, hygiene, and living space conditions. We can control the level of brightness in each space, compensate for the reduction of natural light with artificial light, and manage water leaks from taps and cisterns.
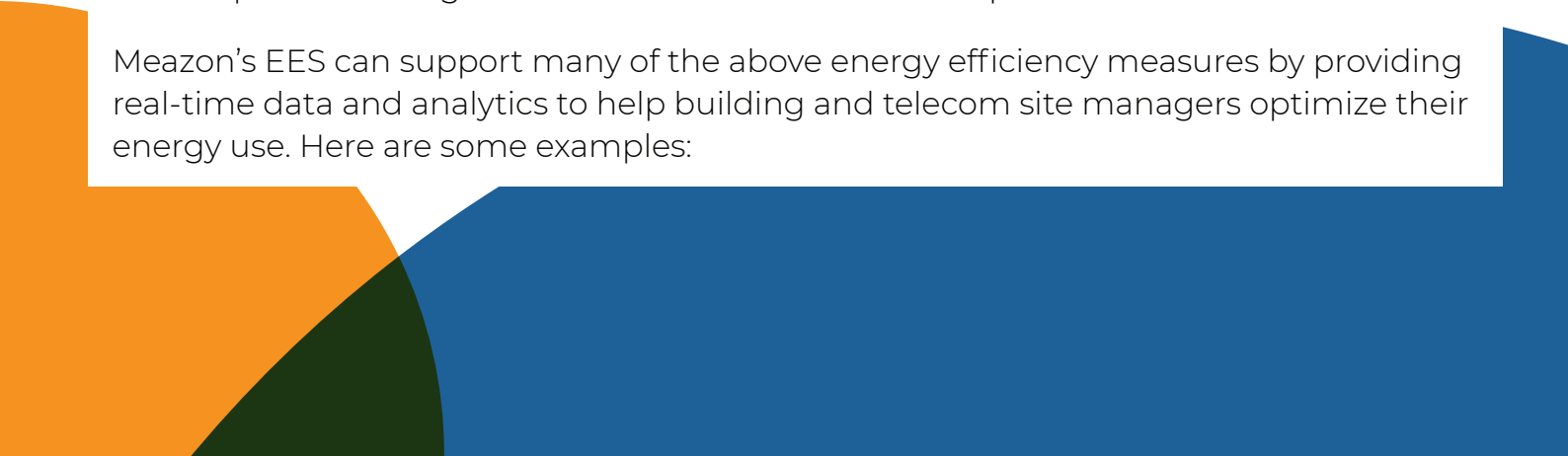
WHY WE ARE DIFFERENT

01 Our professional building energy management service is designed to help you reduce energy waste, increase cost efficiency, and optimize energy consumption across your building or site portfolio. With our comprehensive solution, you can enjoy end-to-end security and flexibility comparable to expensive, proprietary Building Energy Management (BEM) systems, without the high cost.

02 Our energy management solution allows you to start small and grow at your own pace, all while managing energy consumption in real-time across multiple geographically distributed buildings/sites. We provide you with the tools to keep the total cost of ownership low while providing you with the ability to set up services such as multi-tenant billing, energy analytics, and customized reporting and forecasting.

03 Our solution also allows you to optimize the use of renewable energy sources and take advantage of multi-tariff billing from your energy provider. With our real-time monitoring and control capabilities, you can keep track of energy consumed and produced and make informed decisions to minimize your energy costs.

HOW WE CAN SUPPORT YOUR ENERGY EFFICIENCY AND ESG PLANS

Energy audits and management systems are often used to identify and track energy use, while lighting control, HVAC optimization, and building automation systems can be used to reduce energy consumption. Integrating renewable energy sources and obtaining green building certifications can also contribute to energy efficiency, while power quality and indoor air quality can affect energy consumption and occupant comfort. Finally, measuring and reducing carbon footprint is becoming increasingly important for companies looking to reduce their environmental impact.

Meazon's EES can support many of the above energy efficiency measures by providing real-time data and analytics to help building and telecom site managers optimize their energy use. Here are some examples:

Energy Audit: EES can provide detailed information on how energy is being used in a building or telecom site, including which devices are using the most energy, and when energy consumption is highest.

Energy Management System (EMS): EES can enable real-time monitoring and control of energy usage throughout a building or telecom site. By integrating with smart devices, such as sensors and Meazon meters, it can automatically adjust energy use based on occupancy, weather conditions, and other factors.

Lighting Control: EES can provide smart lighting controls that adjust lighting based on occupancy, ambient light levels, and other factors. This can significantly reduce energy consumption while improving lighting quality and occupant comfort.

HVAC Optimization: EES can provide real-time data on temperature, humidity, and other environmental conditions, and use this data to optimize HVAC systems for maximum efficiency.

Renewable Energy Integration: EES can integrate with renewable energy sources, such as solar panels or wind turbines, to optimize energy use and reduce reliance on non-renewable sources.

Green Building Certification:
EES can help buildings and telecom sites meet the requirements of green building certification programs by providing real-time data on energy use and environmental impact.

Indoor Air Quality (IAQ): EES can monitor IAQ and optimize energy use to maintain optimal indoor air quality levels.

Power Quality: EES can monitor power quality and help optimize energy usage to improve the reliability and efficiency of electrical systems.

ESG COMPLIANCE & CARBON FOOTPRINT REDUCTION

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Energy Monitoring and Optimization: Meazon's advanced meters & controllers can be installed on various energy-consuming devices, such as HVAC systems, lighting, and equipment, to monitor their energy usage in real-time. The data collected from these sensors can be analyzed to identify areas where energy is being wasted or where the equipment needs maintenance. By optimizing energy usage, companies can reduce their carbon footprint and save money on energy bills.

Demand Response: Meazon's EES can also support demand response programs. By adjusting energy usage during peak demand periods, companies can help to reduce strain on the power grid and prevent the need for new power plants to be built, which can contribute to carbon emissions. In addition, participating in demand response programs can also help companies to save money on their energy bills.

Renewable Energy Integration: EES can help companies to integrate renewable energy sources, such as solar and wind power, into their energy mix. By monitoring the production and usage of renewable energy, companies can optimize their energy usage to ensure that they are using as much renewable energy as possible, thereby reducing their carbon footprint.

ESG Reporting: By using EES, companies can collect data on their energy usage, carbon emissions, and other sustainability metrics. This data can be used to generate reports that can be used to demonstrate compliance with ESG (Environmental, Social, and Governance) standards. This can help companies to improve their reputation and attract investors who prioritize ESG compliance.

CONCLUSION

Overall, Meazon's EES can help companies to reduce their carbon footprint, save money on energy bills, and improve their ESG compliance.

By optimizing energy usage, integrating renewable energy, and participating in demand response programs, companies can take meaningful steps toward a more sustainable future.

ABOUT MEAZON

We make the energy data acquisition easy & cost efficient and provide it as a service in an open data format

The transformation of traditional commoditized energy markets to advanced services markets is dependent on capturing data at high reporting intervals and managing loads in real-time.

The need for cyber-physical devices with build-in intelligence, scalability, end2end security, ultra-low bandwidth requirements, and cloud-based real-time management is of paramount importance.

Meazon technology is the only technology that provides a convincing answer to this problem and combines ideally cloud services with embedded device software and device hardware in a uniform end-to-end architecture.