Building Management Solutions

We cater to building-specific requirements to develop customized solutions for energy savings. Our state-of-the-art solution is a web-based building control that can connect, measure and control all automated systems installed within the building facility. Our innovative and easy to use solution provides a single point of control and monitoring for all sensors to provide complete building management solutions.

WHY Skylights BMS

State of the art features in the integrated building solutions

Compliant to international standards

Specific solutions to optimize energy efficiency

Expertise in project implementation

Local support for dedicated after sales support

Over 4 decades of practical experience in installing challenging building energy requirements

Building Management Systems

Our custom and scalable systems provide various features such as indoor and outdoor lighting system management, room temperature controls, ventilation controls, HVAC management system, etc. Our Artificial intelligence (AI) based algorithms monitor your systems and identify the true operational pattern, thereby benchmarking an ideal energy signature that would eventually realize significant savings for building owners and managers and also alerting them in case of deviations.

With the ability to monitor real time live energy consumption, our algorithms allow to create maximum limits for the building, which can provide substantial cost savings. It enables automatically reducing peak loads by scheduling loads during non-peak hours, relaxing setpoints, deadbands, reducing VFD speeds and turning off non-critical loads. All parameters are self-configurable with our effortless software features.

BMS Systems for the following:

HVAC Systems

Electrical Systems

PHE Systems

Other Systems

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image quality very poor???

Why Energy analytics?

Our systems assist in preventive and predictive maintenance. Identifying faults, its location, its cause and frequency of such faults could provide insights on how to mitigate repetition and arrest such faults from happening again. This ensures asset equipment protection for longer productivity with lesser maintenance.

Custom branding/ white labeling

Energy management solutions

The Skylights Energy analytics delivers strategic energy management solutions. With tailored hardware, software and services focused only on maximizing reliability and reducing energy wastage.

Make the energy consumed meaningful by relating to your plant production, our innovative easy to use software can be customized to precisely identify key performance indicators.

Identify production cost per item, and evaluate necessary adjustments for a monumental increase in revenue.

We offer effortless ways to increase plant production through data mining algorithms that eventually lead to increased plant performance.

Energy management reports

Our energy management reports are informative, concise and includes the following deliverables:

Data acquisition of all parameters every second, without missing that critical second

Real time energy monitoring dashboard

Energy accounting per department per feeder

Load side demand management

Asset performance monitoring and management

Electrical system health

Predictive energy data analytics

Utility bill verification

Production cost analysis

Live alerts to facility managers on any electrical parameters

https://ashrae.iwrapper.com/ASHRAE\_PREVIEW\_ONLY\_STANDARDS/STD\_100\_2018

Energy Audit

Our energy audit service is focused on reducing energy wastage through periodic corrective measures, leading to maximum energy efficiency and performance. With our experienced and certified energy auditors, our focus is to make your industry a role model for others to follow, by ensuring that you are running at the highest standards of efficiency.

Certification by the International standards ISO 50001 on energy management, ensures that your organization has a healthy energy management system, with reduced energy consumption, environmental impact and increased profitability. We assist your organization with the following services:

- Identification of compliance requirements based on load classification

- Level 1 Audit, Walk through analysis, verification of system energy flow analysis

- Level 2 Audit, Detailed energy survey and engineering analysis

- setting energy use intensity targets EUIT

- Continuous monitoring of energy usage

- Establish energy management plan set to meet target

- Periodic inspection and corrective measures to achieve ideal performance

- Achieve ideal plant performance and reduced energy cost

- Certified green energy plant

https://www.ecmweb.com/power-quality-reliability/article/20900856/power-quality-measurement-and-analysis-basics#:~:text=When%20a%20load%20does%20not,is%20called%20power%20quality%20analysis.

Power Quality Analysis

Energy wastage is significant and most often undetected with aging equipments, faulty terminations, poor installations, poor earthing, and unbalanced loads. Power quality analysis aims to identify such issues, avoid unplanned outages, avoid production interruptions and maintain an ideal plant performance.

Drawing poor quality of power, causes overheating of neutrals, overheating of transformers or motors, nuisance tripping of circuit breakers, blown fuses and eventual breakdown of heavy machineries, which are highly unpredictable and unsafe. Some of the most common indicators are:

- Harmonic distortions, identifying various harmonic frequencies and total harmonic distortions are critical to identify quality of power.

- Transient distortions or voltage surges are particularly dangerous causing irreversible damage to equipment, common issues are lightning strikes and insulation failures.

- Voltage sags and swells with distortion of 10% or more from normal voltage levels causes contactor chattering, plc failures, variable speed drives to fail

- Voltage and current unbalances leads to challenges in maintaining balanced load when single phase loads cycle go on/off during peak hours. This causes unavoidable unablances in voltage and current leading to high current consumption which eventually causes overheating of equipments

Power quality analysis assists in preventive and predictive maintenance. Identifying faults, its location, its cause and frequency of such faults could provide insights on how to mitigate repetition and arrest such faults from happening again. This ensures asset equipment protection for longer productivity with fewer maintenance.

IEEE Power Quality Standards and NFPA 70B

Pricing Pages

We provide the following custom services:

Electrical design consultation services

Energy audits, identify critical components and measures to increase efficiency

System Harmonic studies with detailed reports

Industrial and commercial power system evaluation and assessment

Ongoing system support and Maintenance contracts

Verification of existing electrical meters, relays and indications

Industrial automation solutions and building management systems