Building Energy Management System (BEMS)

Introduction

Energy management in buildings are becoming more prominent as the demand for energy increasing more and more by utilization of HVAC's and automation. CSIR CSIO developed BEMS helps in monitoring and control the utilities in maintaining the comfort level in the building including the augmentation of power generation through renewable resources. It can be easily integrated in the smart cities programs.

It provides a real-time data at the comfort of the office or any location desired. Analysing and remote access of collected data from the sensors allows end user to get alerts if certain thresholds are exceeded.

Features

- Monitoring the energy consumption patterns
- Creation of data base and analysis
- Control the loads by optimizing the energy utilization
- Report generation and alarms in case of abnormal conditions
- Web enabled software for BEMS
- Stand-alone mobile app controlled system
- Scalable system for small to big applications
- Interoperable features
- Supports various communication media such wired, wireless and Powerline communications
- Supports multiple communication protocols such MODBUS &LONWORKS

Status: TRL 4: Ready for Technology Transfer

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