

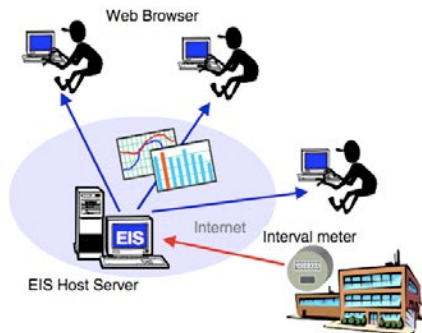
# Open Energy Information System (OpenEIS): Sparking Market Demand for Increased Adoption of Building Analytics

## Definition of EIS

- Software, data acquisition hardware, and communication systems to collect, analyze and display building energy information (whole-building hourly electric, at a minimum)
- Capabilities include: web-accessibility, visualization and graphics, calculation of consumption baselines, load profiling, building or portfolio benchmarking, anomaly detection, energy costing, forecasting

## EIS Do Not Typically Include

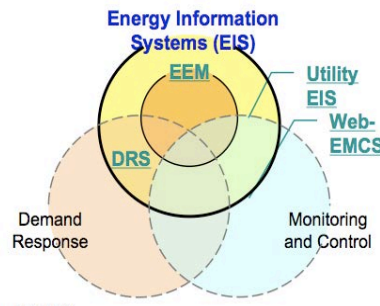
- Most energy management and control systems, fault detection and diagnostic platforms, batch analysis tools, green house gas calculators, environmental monitors



## OpenEIS Overview

- Motivation: Continuous monitoring and analysis can increase building efficiency up to 20%, yet most small and medium sites do not have cost-effective access to commercial tools
- Objective: Provide market exposure to analytical and diagnostic algorithms, to create market demand that can be met by controls manufacturers and service providers
- Solution: Deliver an open-source web-based application to analyze batch mode uploads of commonly available building data, to demonstrate value and increase market demand for commercial solutions

## Workshops with Subject Matter Experts Q1 and Q2, 2013



## Project Tasks, Outcomes

- Identify high-impact analytical and diagnostic algorithms for the OpenEIS
  - Elicit feedback from subject matter experts during a 1-day workshop in February 2013
- Identify data formats and protocols to be accommodated in the OpenEIS
  - Obtain input from subject matter experts during a 1-day workshop in May 2013
- Develop a software requirements specification for OpenEIS build-out
  - Incorporate findings from workshops
  - Delivery to DOE, September 2013

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