

EMERGING TECHNOLOGIES AND ACCELERATED COMMERCIALIZATION PROGRAM (ETAC)

Project Brief: InScope Energy Demonstrates “Enfuse®” Building Performance Management Solution

Background

Many nonresidential buildings are large electricity users, but owners and facility managers too often have little control over or insight into how efficiently their buildings operate. The traditional building audit and re-commissioning processes to identify efficiency improvements can be labor-intensive and costly. New monitoring and control methods offer alternative approaches to improving building efficiency. InScope Energy’s Enfuse® is a real-time monitoring and commissioning solution incorporating smart devices, a cloud-based dashboard, data analytics, and energy consulting.

Project Description

InScope Energy will demonstrate its comprehensive energy efficiency system in two buildings in the Capital District, NY. Enfuse® includes the installation of electrical nodes that provide breaker-level visibility into building performance. The smart devices are installed into each electric panel to continuously measure energy usage and gain granular management and on/off control. Each site will also receive access to the Enfuse Visualization Engine (EVE), an interactive dashboard tool. EVE allows users to drill down to identify electric usage, trends, and operational anomalies, and to enact efficiency strategies at the circuit, system, or building level. Data analytics drive the identification and prioritization of opportunities for energy savings (both operational changes and capital improvements, many of which are low- or no-cost). InScope Energy will provide energy conservation measure (ECM) recommendations, empowering building owners to make data-driven decisions on saving energy.

Benefits

Each site will receive real-time energy usage data on every electrical circuit, as well as automated alerts when the system detects usage anomalies. InScope Energy experts will analyze building data and provide each site with monthly reports with recommended ECMs and anticipated implementation costs. Facilities may choose to implement ECMs, including use of the EVE dashboard to optimize control of existing equipment. Each site is expected to realize annual electric usage savings of approximately 10-20%.

Investment

NYSERDA	\$0 (Performance validation only)
Lead Participant	\$212,415
Total	\$212,415

Lead Participant

In Scope Energy
Reston, VA

Other Team Members

State University of New York

Technical Consultant

ERS

NYSERDA Contact Information

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Contract Details

Start Date: May 2014
Project Status: Underway

Last Update

February 2015

Learn more about new energy-saving technologies and approaches.

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The ETAC program supports multi-site demonstrations, provides indepth performance validation, and shares results through dedicated outreach.

