



## MCE Offers the SEM Program to Commercial and Industrial Sites

MCE's Strategic Energy Management (SEM) Program helps participants apply the principles and practices of continuous improvement and change management to implement energy management best practices that can help reduce energy usage by 3% to 15% annually with little to no capital investment. Plus, MCE offers a total incentive of \$0.03 per kWh and \$0.25 per therm saved!

### The Program

MCE's SEM support provides the tools, coaching, structure, and resources necessary to achieve energy savings through operations and maintenance changes and by engaging employees. Trainings, site walk-throughs, and building energy modeling are all included to help you achieve the highest savings possible.

### What's the Cost?

Participation requires no financial commitment. Your investment is the staff time to participate and implement projects, including attending no-cost quarterly workshops throughout the two-year program. Cost savings and incentives are directly related to the energy savings opportunities executed throughout the program.

### Who Can Participate?

Commercial, municipal, and industrial customers within MCE's service territory that are interested in further integrating energy management into their organizations.

### Benefits of Participating

- ✓ Potential energy savings of 3%-15%
- ✓ Incentive of \$0.03/kWh and \$0.25 therm saved
- ✓ Up to \$6,000 additional incentives for achieving program milestones
- ✓ Expert coaching assistance and tools
- ✓ Custom statistical models
- ✓ Reduced maintenance costs
- ✓ Increased quality and productivity



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## Large Brewing Company Case Study



## Leading brewery saves millions with no capital investment

In January 2013, this leading brewer joined SEM, along with 12 other large industrial sites with the goal to identify and implement low/no cost electrical energy saving opportunities. Through SEM practices, the brewery achieved significant reductions in electricity usage.

### The Opportunity

The 1,300,000 sq. ft. plant was experiencing a gap between energy savings goals and achievement. A task force was organized to close this gap. The team, along with the active support of the plant manager, eagerly joined the SEM program to help their performance. They were intrigued, but also skeptical, about the SEM approach of finding opportunities to save energy without having to spend capital dollars.

### The Solution

The brewery's energy task team was highly proactive and effective in adopting SEM employee engagement practices. They developed an energy awareness and training presentation for all employees that included tips on how to spot low/no cost opportunities. Through internal audits and employee suggestions, the team quickly developed a list of energy saving ideas such as shutting down empty conveyors and packaging equipment during non-production times.

The energy task team took advantage of SEM program technical resources to review their refrigeration and compressed air systems. These reviews resulted in identifying energy-saving set point and control settings adjustments and maintenance practices.

SEM gave this brewery the tools including a model to track energy intensity, to continue their energy saving efforts over the long term.

### SEM Savings at a Glance

**4,800,000**

kWh saved in SEM year 1

**4,939,515**

kWh saved in SEM year 2

**+5%**

kWh reduction



SEM Hospital Case Study



## SEM Implementation at Hospital Complex Yields Significant Savings

### The Opportunity

A large network of hospitals had a desire to improve their energy use. The hospital network enrolled four sites in a Strategic Energy Management (SEM) program provided by their utility company. The four sites included:

- A 60-bed surgical facility
- A 514-bed acute care hospital with a Level II trauma center, intensive care units, surgical suites, and a variety of in- and out-patient facilities
- A 435-bed acute care hospital with a Level II trauma center, intensive care units, surgical suites, and a variety of in- and out-patient facilities
- An outpatient treatment center and freestanding emergency department

Implementing energy efficiency measures at hospitals can be particularly tricky because of the necessity to ensure no changes affect patient outcomes. Hospitals also have a different energy usage profile compared to many buildings, with lighting being the largest energy driver. Cooling comes in as a close second, and other, encompassing devices such as medical equipment, comprise the third largest category. Overall, hospital energy use and energy waste are secondary concerns to saving lives. Still, there are savings to be found at hospitals and improvements that can help the hospitals' operations. That's where SEM comes in.

### The Solution

In the case of this hospital complex, the campuses identified one energy champion and executive sponsor over all four sites. These individuals built out an energy team that was responsible for identifying and implementing energy saving projects across the large number of systems found in a hospital. From surgical rooms to cafeterias to inpatient beds, spread across multiple sites, the team found numerous projects and achieved savings.

### SEM Savings at a Glance

**1,210,000\***

kWh saved in SEM year 1 (4 hospitals)

**+2%**

kWh reduction

\*Collective savings for four hospitals

## SEM Team Roles and Responsibilities

### Executive Sponsor

- Communicates program
- Creates a sense of purpose
- Sets clear expectations
- Provides direction
- Provides necessary resources
- Engages supervisors
- Communicates success
- Recognizes, rewards

### Energy Champion

- Assists team communications
- Drives activities
- Owns the projects
- Creates a sense of urgency
- Creates enthusiasm
- Engages others - spreading responsibility
- Prepares and conducts effective meetings
- Engages executives

### Team Member

- Interfaces with their departments
- Identifies energy saving opportunities
- Offers subject matter expert advice
- Prioritizes energy saving opportunities
- Quantifies cost and savings
- Implements projects

## SEM Two Year Workshop and Activity Schedule

	<b>Workshop/Activity Title</b>	<b>Format</b>	<b>Program Month</b>	
Year 1	Workshop #1 Starting SEM	Combined cohort session - 4 hours	1	
	Workshop #2 EE 101	Combined cohort session - 4 hours	2-3	
	Energy Map 101	Site specific activities & support	3-4	
	Treasure Hunt 101	Site specific activities & support	4	
	Workshop #3 Tracking Performance 101	Combined cohort session - 4 hours	6	
	Workshop #4 Employee Engagement 101	Combined cohort session - 4 hours	7-8	
	Employee Engagement Support	Site specific activities & support	10	
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	Workshop #5 Making it Stick	Combined cohort session - 4 hours	13	
	Workshop #6 EE 201	Combined cohort session - 4 hours	14	
Year 2	Energy Map 201	Site specific activities to finish map	15-16	
	Treasure Hunt 201	Site specific activities & support	18	
	Workshop #7 Tracking Performance 201	Combined cohort session - 4 hours	18-20	
	EMIS Planning and Implementation	Site specific activities & support	22	
	EMIS Assessment	Site specific activities & support	23	
	Workshop #8 Celebrating Accomplishments	Combined cohort session - 4 hours	24	

