

Why Strategic Energy Management (SEM)?

A holistic long-term approach to energy efficiency and continuous improvement

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AGENDA

- > What is strategic energy management (SEM)?
- > SEM program benefits
- > How SEM works
- > Is SEM the right program for you?
- > SEM case study

**“Give a man a fish and you
feed him for a day.
Teach a man to fish and you
feed him for a lifetime.” [1]**

EXECUTIVE **COMMITMENT**

EXECUTIVE **COMMITMENT**

HOLISTIC VIEW

EXECUTIVE **COMMITMENT**

HOLISTIC VIEW

CONTINUOUS
IMPROVEMENT

2% to **5%**
ENERGY SAVINGS

2% to **5%**

ENERGY SAVINGS

No-Cost Technical
ASSISTANCE

2% to 5%

ENERGY SAVINGS

**No-Cost Technical
ASSISTANCE**

Energy savings
Incentives and
Staffing grants

Based on an Annual
Consumption of

50 Million
kWh

\$175,000

5% UTILITY
Savings/Year

\$70,000

2% UTILITY
Savings/Year*

* Based on an average \$0.07 / kWh

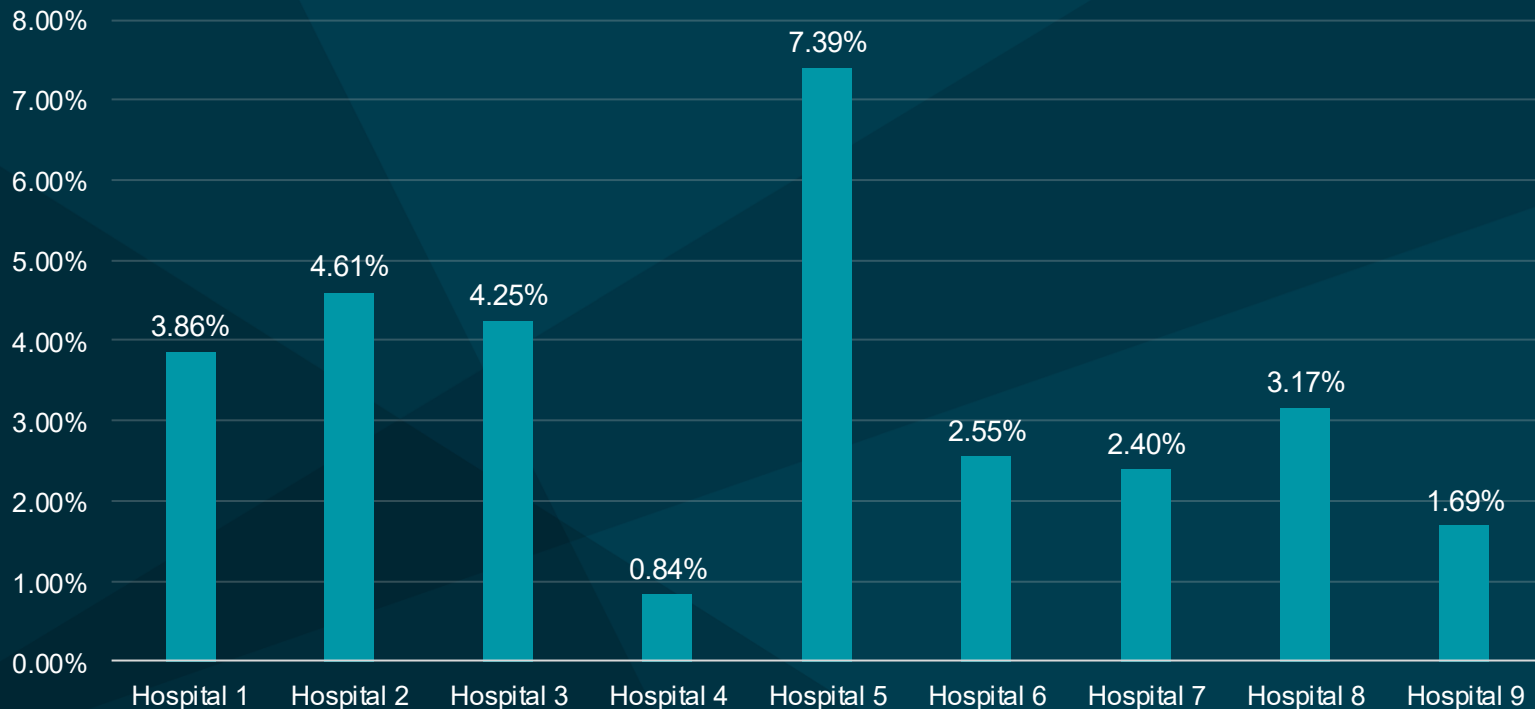
Projected SEM Pilot Energy Savings (24 Months)

kWh Savings 7,245,000

Therm Savings 157,000

SEM Energy Saving Range 2-5%

Projected Energy Saving Range 1-7%



**EXECUTIVE
& STAFF
COMMITMENT**

**DEVELOP
& ANALYZE
ENERGY MODEL**

SEM

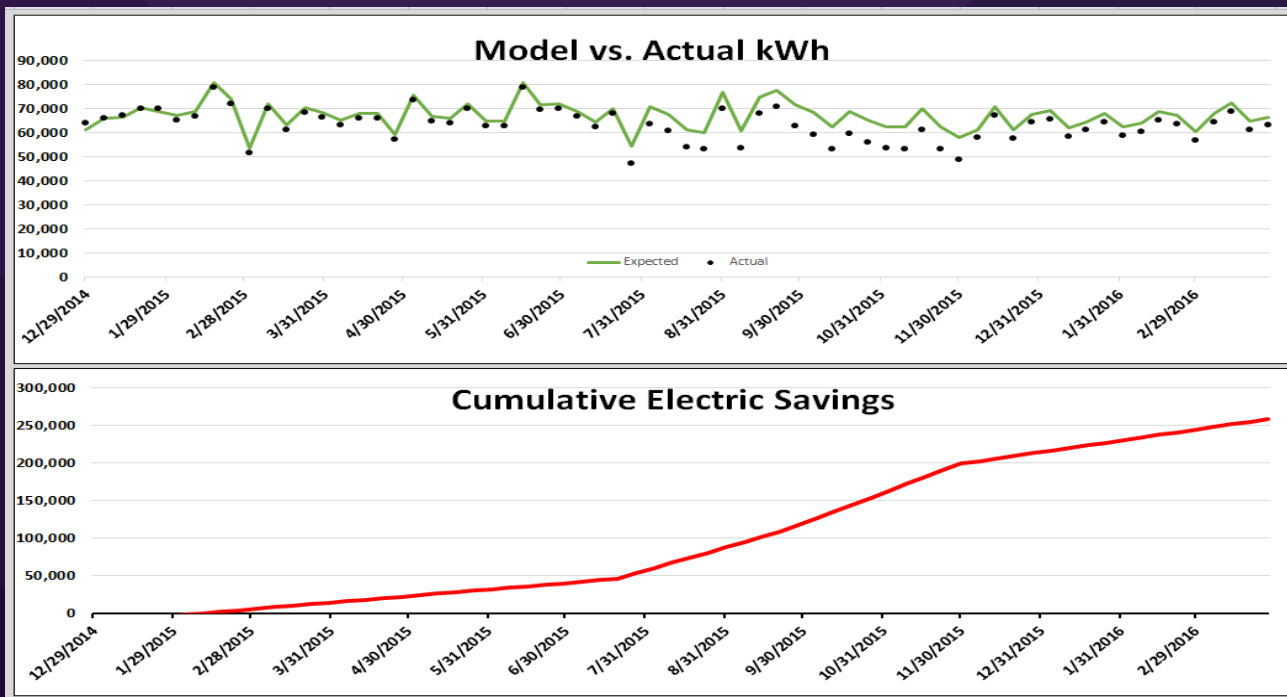
**KICK-OFF &
FIRST YEAR PLAN**

**IMPLEMENT &
DEVELOP PLAN**

EXECUTIVE & STAFF COMMITMENT

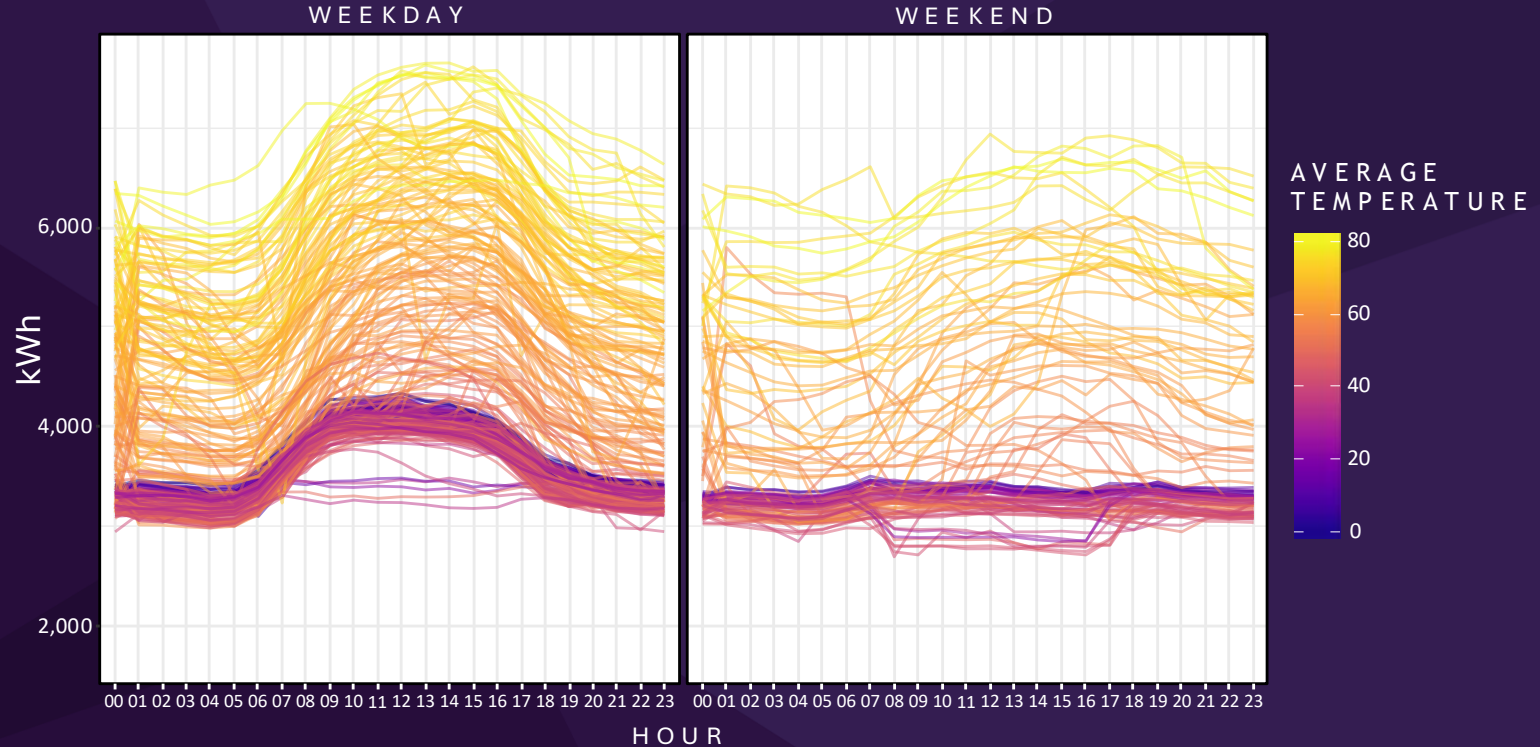
Energy Performance Model

Daily kWh = 105,000 + (124 * Product A) + (213 * Product B) + (55*CDD) + (-12,000 * Weekend)



Analyzing Energy Performance Data

Electricity Consumption by Hour



SITE WALK-THROUGH

SITE WALK-THROUGH

OPERATIONS & EQUIPMENT INVENTORY

SITE WALK-THROUGH

OPERATIONS & EQUIPMENT INVENTORY

GOALS, OBJECTIVES, SEM PLANNING

Check-in Meetings

Integrate energy information and actions into ongoing operational, financial, and administrative considerations of the organization



Find out how
SEM can
work for you.

