

Thank you for joining our webcast

STRATEGIC ENERGY MANAGEMENT

An Opportunity for Utilities to Strengthen Engagement with Industrials

Please stand by, we will begin shortly

STRATEGIC ENERGY MANAGEMENT

PANELISTS AND TOPICS:



Neil Kolwey, SWEEP
"Overview of utility
SEM programs in the US"



JP Batmale, Energy Trust
of Oregon "Successes
with SEM"



Chad Gilless, EnerNoc
"Early experiences of
Rocky Mountain Power
Utah's new SEM programs"

ORGANIZED BY A PARTNERSHIP OF THE U.S. REGIONAL ENERGY EFFICIENCY ORGANIZATIONS:



Overview of Utility *SEM* Programs



Neil Kolwey, Sr. Associate
Utility SEM Programs Webinar
November 3, 2014



—SWEEP

SOUTHWEST ENERGY EFFICIENCY PROJECT

Promoting energy efficiency policies and programs in the utility, buildings, transportation, and industrial sectors.



What is Strategic Energy Management?





Five Key Elements of Strategic Energy Management

- ❑ Obtain management support for long-term goals
- ❑ Dedicate staff, including an energy champion
- ❑ Develop an energy management plan
- ❑ Implement a system for tracking energy use
- ❑ Quantify energy savings from a) capital projects and b) O&M improvements

Source: NEEA, BPA, ETO, CEE

Utility SEM Program Types

- ❑ **Train companies in SEM principles, providing incentives for overall savings**
- ❑ Co-fund energy managers, and provide training and/or require a plan
- ❑ Help companies develop a multi-year energy plan
- ❑ Provide incentives and training in energy management information systems

Increasing Energy-Saving Goals



EPA Clean Power Plan



SEM Training Programs



BPA

ETO

SCE

AEP

WI FOE

SEM Training Programs

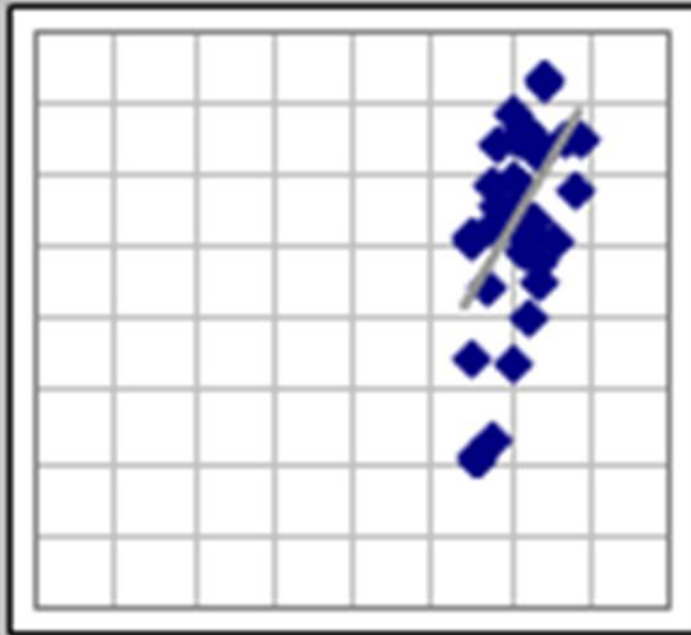
Utility	Incentive	Program Savings
BPA	\$.025/kWh for 3 or 5 years, for O&M savings	2010: 5,800 MWh 2011: 8,700 MWh
ETO	\$.02/kWh, \$.20/therm for 1 year, for O&M savings; with option of 1 more year	2010: 24,000 MWh 2011: 16,200 MWh

SEM programs achieving 15-25% of total savings from C&I programs for both utilities

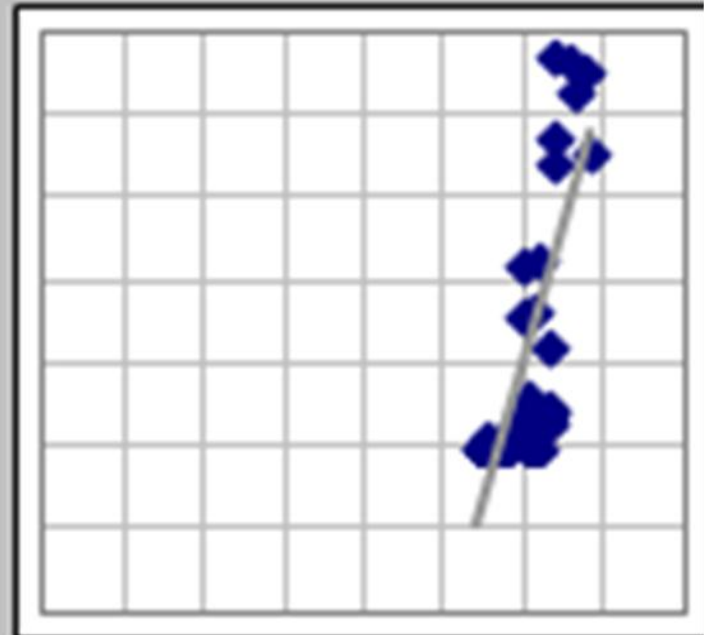
Measuring Total Energy Savings

Electricity (kWh)

Production (wafers)



Cooling Degree-days



New Capital Projects by BPA's SEM Training Participants

Pre- SEM Project Completion		Projects Submitted after SEM Training Kick-off	
# of Projects	Savings (MWh/yr)	# of Projects	Savings (MWh/yr)
10	4,680	23	14,220

Source: BPA

Co-Fund Energy Managers



**BC
Hydro**

BPA

**Puget
Sound
Energy**

WI FOE

**Nation-
al Grid**

Assist with Multi-Year Energy Management Plans

Xcel Energy Process Efficiency Program

- Envinta assessment of energy management
- Comprehensive audit of opportunities
- Develop 2-3 yr energy plan
- Provides incentives for capital projects (\$400/kW)
- Levelized cost of saved energy from 2008-2011 of only **\$.005/kWh** (0.5 cents/kWh saved)



EMIS Support



Try Something New!



Questions?

