State Government Energy Efficiency and Renewable Energy Efforts

Karen Rantamaki, State Energy Manager – Department of Administrative Services Energy Efficiency and Sustainable Energy Board March 2016

EESE Board Statutory Charge

Expanding upon the state government's efficiency programs to ensure that the state is providing leadership on energy efficiency and sustainable energy including reduction of its energy use and fuel costs

In a Nutshell

 If it has to do with energy and a state building, we touch it:

- Data
- Projects
- Outreach
- Training
- Buying
- Managing

Team – Who is Doing the Work

State Energy Manager and Staff

- Chris Moore, Energy Project Manager
- David Mikelson, Energy Data Analyst

Assisting Agencies

- Department of Environmental Services
- Office of Energy and Planning
 - Relationship has changed over the years based on politics, funding, and staffing. Currently providing minimal assistance on daily tasks

Team – Who is Doing the Work, cont.

Each agency is required to have an Energy Coordinator

Main point of contact for initiatives
 Many agencies have other energy team members

- Data Staff
- Facilities Staff
- Fleet Manager
- Some have Green Teams or Energy Teams

Team – Who is Doing the Work, cont.

Various Committees and Groups to help keep things moving

- State Government Energy Committee
- Fleet Working Group
- Buildings Group <u>chaired by SEM</u>
- Communications Group <u>co-chaired by SEM</u>
- Conference Planning Committee <u>co-chaired by</u> <u>SEM</u>

Some of the Things We Do

Energy Saving Performance Contracts Capital Projects (with limited energy funds) Oversee Energy Studies Annual Energy Conference Energy Data Tracking and Reporting Annual Energy Conservation Plans Demand Response Program Natural Gas and Electricity Contracts Technical Assistance to Agencies on **Energy Related Matters**

Some of the Things We Do

- Energy and Facility Blogs and Webpage
 Quarterly Newsletter
- Assist Purchasing with Energy Related Contracts
- Provide Training
- Follow and Weigh-in on Legislation and Policy

 Assist Public Works with Energy Projects
 Special Projects through Grant Programs
 Assist Governor's Office with Energy Related Items (EO)

Current Focus

 Energy Saving Performance Contracts
 Annual State Energy Conference
 Managing Demand Response and Utility Contracts

Technical Assistance to Agencies

Energy Capital Projects
Data Management

Highlights (Hazen Drive Performance Contract)

Current Utility Costs	Avg. Cost per square foot	Total Project Cost*	Estimated Savings	Payback (years)*	Energy Cost Reduction	Fossil Fuel Reduction
\$2.5 million	\$4.10	\$12.7 million	\$949,508 annually	13.4	36%	71%

*does not include finance costs

3rd Party Financing - Banc of America Public Capital Corp Interest Rate – 2.5955% Project Payback w/Interest – 16.95 years Contract Term – 17 annual payments beginning when construction period ends

Potential Energy Savings in ESPC

	Location	Project Cost (including financing)	Guaranteed Annual Savings (kBtus)	Annual Savings
ESPC #1	Hazen Drive	\$16,091,077	67,182,712	\$949,508
ESPC #2**	Cannon Mountain	\$7,896,816	13,106,275	\$421,700
ESPC #3**	28 Facilities in Concord	\$53,000,000	55,000,000	\$3,000,00 0
TOTALS		\$76,987,893	135,288,987	\$4,371,20 8

Discussion Questions

Other than items required by law, where should the Energy Management Office focus its efforts?

What are some ways to get more done with the limited resources available?
What could help us legislatively (more resources or reduce requirements that don't produce results)?