State of NH, Energy Saving Performance Contract Initiative

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Presentation to the EESE Board March 2017

Overview

- Goals
- Work to be Done
- What We've Done
- How to Bridge the Gap

Fossil Fuel Reduction Goal

- Executive Order 2016-3
 - 30% by 2020
 - 40% by 2025
 - 50% by 2030
- Current Level of Capital Investment
 - \$500,000 in 2-year budget cycle

At this rate of investment, we cannot achieve goals.

ESPC Projects, 2013-Present

<u>Hazen Drive</u> project covers 4 buildings –

Dept. of Safety	DMV
Morton Building	27/29 Hazen - DoIT, DES, DHHS, and labs

Current Utility Costs	Avg. Cost per square foot	Total Project Cost*	Estimated Savings	Payback (years)*	Energy Reduction	Fossil Fuel Reduction
\$2.5 million	\$4.10	\$12.7 million	\$949,508 annually	13.4	20%	71%

^{*}Costs do not include financing.

ESPC Projects, 2013-Present

Cannon Mountain project includes -

11 onsite facilities

N/A

\$1.3

million

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\$386,565

annually

Snowmaking operations

12.9

30%

\$4.98*

million

^{*}Costs do not include financing.

[✓] Actual savings for FY17 are on track to exceed \$400,000.

ESPC Projects, 2013-Present

- 28 Facilities in Concord
- Currently undergoing audit (IGA) phase
- Expected project size: \$10-\$20 million
- Expected energy savings: \$700,000 \$1.2 million

The completion of these 3 projects along with the conversion away from Concord Steam will bring energy costs back to 2005 levels.

How can we do more?

- With current workload and staffing levels, we're averaging <1 ESPC per year
- Improving ESPC process and sharing project ownership can increase ESPC pace
- US Department of Energy ESPC Accelerator Program aims to do just that

ESPC Accelerator - Energy Champions Toolkit

- Goal to provide guidance to state agencies so they can develop and oversee their own ESPC projects
- State Energy Management Staff will serve as consultants throughout entire process
- Champions Network will allow for collaboration across agencies

ESPC Accelerator - Energy Champions Toolkit

- NH joined in year 3 of the 3-year program
- In one year, we worked with DOE to develop a toolkit to accelerate ESPC work in state facilities
- NH's toolkit was shared with the Energy Services Coalition, NASEO, and will be presented at the Better Buildings Summit in May
- The toolkit will also become a part of DOE's online ESPC toolbox

What's in the Toolkit?

- Introductory memo from DOE to NH DAS
- Introductory memo from NH DAS to agencies
- Overview presentation to Champions
- Overview presentation to Commissioners
- UPGRADE Plan
- UPGRADE Prompt
- Agency Checklist

What's Next

- DAS, Bureau of Court Facilities and the Fish & Game Department are collaborating on a regional project
- Grouping smaller facilities geographically may allow for economies of scale and make projects attractive to ESCOs
- This will be a pilot and if successful could lead to further similar projects

Questions?

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