

New Hampshire Energy Management for Community Water Systems (Serving 10,000 people or less)

I. Workshop Series Overview

Providing drinking water and wastewater requires energy – and a lot of it. The Environmental Protection Agency estimates that the cost of energy as a percent of operating costs for drinking water system can reach as high as 40 percent and is expected to increase 20 percent in the next 15 years. Energy management is becoming a more important aspect of a utility’s asset management program.

The Environmental Finance Center Network (EFCN) is offering this workshop series that will focus on the development of an individual energy management plan for each system to a select group of community water systems. The series is being offered in partnership with the New Hampshire Department of Environmental Services (NHDES).

The three-part series looks at energy efficiency and cost reduction through equipment upgrades, process alterations, and billing changes. Workshops will demonstrate the NYSERDA energy planning approach, introduce Portfolio Manager, review energy bills, and identify funding sources unique to energy efficiency and renewable energy projects.

As preparation for the workshop series, EFCN staff conducted an energy assessment for each system.

Smart Management for Small Water Systems: Workshop Series

Energy Management for New Hampshire Water Systems

Day 2 (of 3) - Prioritizing and Funding Projects

148 Main Street, Lincoln, New Hampshire

8:30 Arrive and check in (official start is at 9:00 am)

9:00 Welcome Back, Progress Updates, Review from Workshop 1, and Questions
All

9:45 Remarks from New Hampshire Department of Environmental Services
Luis Adorno, NH DES

10:00 Variable Frequency Drives: Optimization and Operational Issues
Mike Toto, Tighe & Bond
Amanda Keyes, Tighe & Bond
Mark Mizia, Eaton Corporation

10:45 Break

11:00 Identifying Potential Energy Projects
David Tucker, UNC Environmental Finance Center

11:30 Financing Energy Projects I: Capital Projects and Project Economics
David Tucker

12:00 Lunch (On Your Own)

1:00 Project Prioritization
David Tucker

1:30 Project Prioritization: Four Quadrants Exercise

1:45 Panel Presentation: Financing Energy Management Projects
Guest speakers from New Hampshire agencies that finance energy efficiency for water systems

2:30 Break

2:45 Financing Energy Projects II: Special Financing Mechanisms for Energy Management
David Tucker

3:30 Close-Out and Homework
All

3:45 End Day