



Smart Management for  
Small Water Systems

# Managing Energy at Your Small Drinking Water System – A Workshop Series for New Hampshire Utilities

Workshop 2 – 08/24/16

Lincoln Town Hall, Lincoln, NH

Facilitator – David R. Tucker

This program is made possible under a  
cooperative agreement with EPA.



UNC  
ENVIRONMENTAL  
FINANCE CENTER



Environmental  
Finance  
Center  
*Syracuse University*



## About the Environmental Finance Center Network (EFCN)

The Environmental Finance Center Network (EFCN) is a university-based organization creating innovative solutions to the difficult how-to-pay issues of environmental protection and improvement. The EFCN works with the public and private sectors to promote sustainable environmental solutions while bolstering efforts to manage costs.

## The Smart Management for Small Water Systems Program

This program is offered free of charge to all who are interested. The Project Team will conduct activities in every state, territory, and the Navajo Nation. All small drinking water systems are eligible to receive free training and technical assistance.

### What We Offer

Individualized technical assistance, workshops, small group support, webinars, eLearning, online tools & resources



- **Environmental Finance Center at University of North Carolina at Chapel Hill**
- Southwest Environmental Finance Center
- Syracuse University Environmental Finance Center
- Environmental Finance Center at Wichita State University
- EFC West
- Environmental Finance Center at University of Louisville
- Great Lakes Environmental Finance Center at Cleveland State University
- New England Environmental Finance Center at University of Southern Maine
- American Water Works Association





## Areas of Expertise

- Asset Management
- **Energy Management**
- Meeting Regulatory Compliance
- Fiscal Planning and Rate Setting
- Multi-funding Coordination
- Communications and Decision-making
- Water Loss Reduction
- Working with Other Water Systems
- Financing
- Funding Programs
- Managing Small Utilities in Drought



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**EFCN** Innovative Finance Solutions for Environmental Services

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Resource Library  
E-Learning Modules  
**Funding Sources by State**  
Map of Water and Wastewater Rates Dashboards

**Get Free Help**

Small water systems can request free technical assistance from our experts on finance and management challenges.

"The thing about working with the EFCN is availability; I can call anytime with a quick question or to get outside advice."

## Navigating to Funding Tables

Step 1: efcnnetwork.org

Step 2: Select "Funding Sources by State" under the Resources Tab

# Funding Sources by State

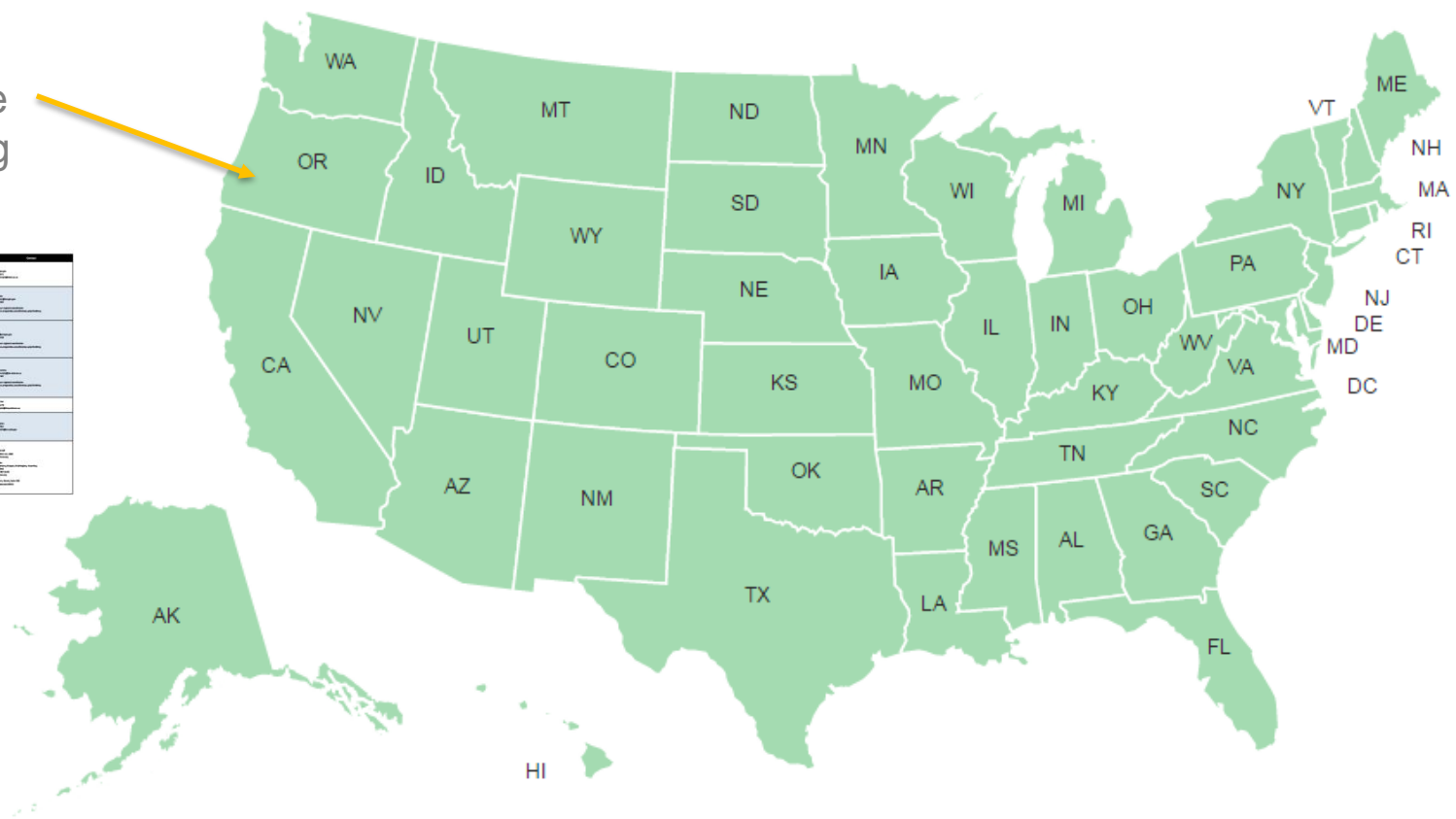
*Note: Some states may have additional resources listed below the map.*

Click on the map below to view funding sources for each state:

Click on an individual state to view funding table.



State	Funding Source	Amount	Year	Link
CA	State Water Resources Control Board	\$100,000,000	2015	<a href="#">View Funding Table</a>
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# UNC

## ENVIRONMENTAL FINANCE CENTER



UNC SCHOOL of GOVERNMENT

*Dedicated to enhancing the ability of governments and other organizations to provide environmental programs and services in fair, effective, and financially sustainable ways through:*

- Applied Research
- Teaching and Outreach
- Program Design and Evaluation



*How you pay for it matters*



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<http://efc.sog.unc.edu>

 @EFCatUNC



# Energy Management Workshop Series

- In-depth workshop focused on building system-specific energy management plans
- Aim is to create a peer network
  - Workshop 1: Collecting data and getting started
  - **Workshop 2: Prioritizing and funding projects**
  - Workshop 3: Implementing, progressing, and special topics





# Process:

## Energy Management Workshop Series



Who: Dawn Nall, Southwest Environmental Finance Center

What: On-Site Level 1 Energy Assessment

Where: Your Water System



# Energy Management Workshop Series



Who: Stacey Isaac Berahzer, Environmental Finance Center at UNC, Luis Adorno, NHDES; Paul Hausmann, Eversource Energy

What: One Day Workshop Covering:

- Overview of Energy Management Planning
- Review of Energy Assessments
- Understanding Energy Bill

When: Tuesday, July 19<sup>th</sup>, 2016

Where: Ashland, NH



# Energy Management Workshop Series



Who: David Tucker, Environmental Finance Center at UNC;  
Various speakers on financing options and VFDs

What: One Day Workshop Covering:

- Approaches to Project Prioritization
- Traditional Financing Mechanisms
- Special Financing Mechanisms

When: Wednesday, August 24<sup>th</sup>, 2016

Where: Lincoln, NH



# Energy Management Workshop Series



Who: David Tucker, Environmental Finance Center at UNC,  
Special Topic Speakers, TBD

What: One Day Workshop Covering:

- Maintaining Momentum
- Communication Strategies
- Special Energy Topics (Renewables?)

When: Wednesday, September 28<sup>th</sup>, 2016

Where: Plymouth, NH





# Energy Management Workshop Series



Site-Specific  
Comprehensive  
Energy  
Management Plan



# Workshop 2 Agenda

Start Time	Topic
9:00	Welcome Back, Progress Updates, Review from Workshop 1, and Questions
10:00	Variable Frequency Drives: Optimization and Operational Issues
10:45	<i>Break</i>
11:00	Identifying Potential Energy Management Projects
11:30	Financing Energy Projects I: Capital Projects and Project Economics
12:00	<i>Lunch Break (on your own)</i>
1:00	Project Prioritization <i>- Including Four Quadrants exercise</i>
1:45	Panel Presentation: Financing Energy Management Projects
2:30	<i>Break</i>
2:45	Financing Energy Projects II: Special Financing Mechanisms for Energy Management
3:30	Close-Out Discussion; Evaluations; and Assignments for Next Month
3:45	<i>End Day</i>



# Introductions / Checking In

- Plymouth Village Water & Sewer District
- Ashland Water and Sewer Departments
- Canaan Water Department
- City of Lebanon
- Groveton Water System
- Carroll Water Dept.
- Town of Bristol Water and Sewer Department



# Homework from Workshop One

- Share about using the energy baseline tool to enter your electric bills for the past 1-2 years
- What ideas have you come up with for energy management projects? (Hint: check over your energy audits if you haven't done so already.)
- What ideas have you come up with for how to pay for these projects, potentially?





# Key Take-Aways from Workshop One?

- From water systems in attendance at the first workshop?
- Lingering questions from any/all of the water systems?
- Particular points to review, e.g. from the slides?