



Smart Management for  
Small Water Systems

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

Workshop 3 – 09/28/16

Plymouth Village Water and Sewer District

Plymouth, NH

Facilitator – David R. Tucker

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



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Finance  
Center  

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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



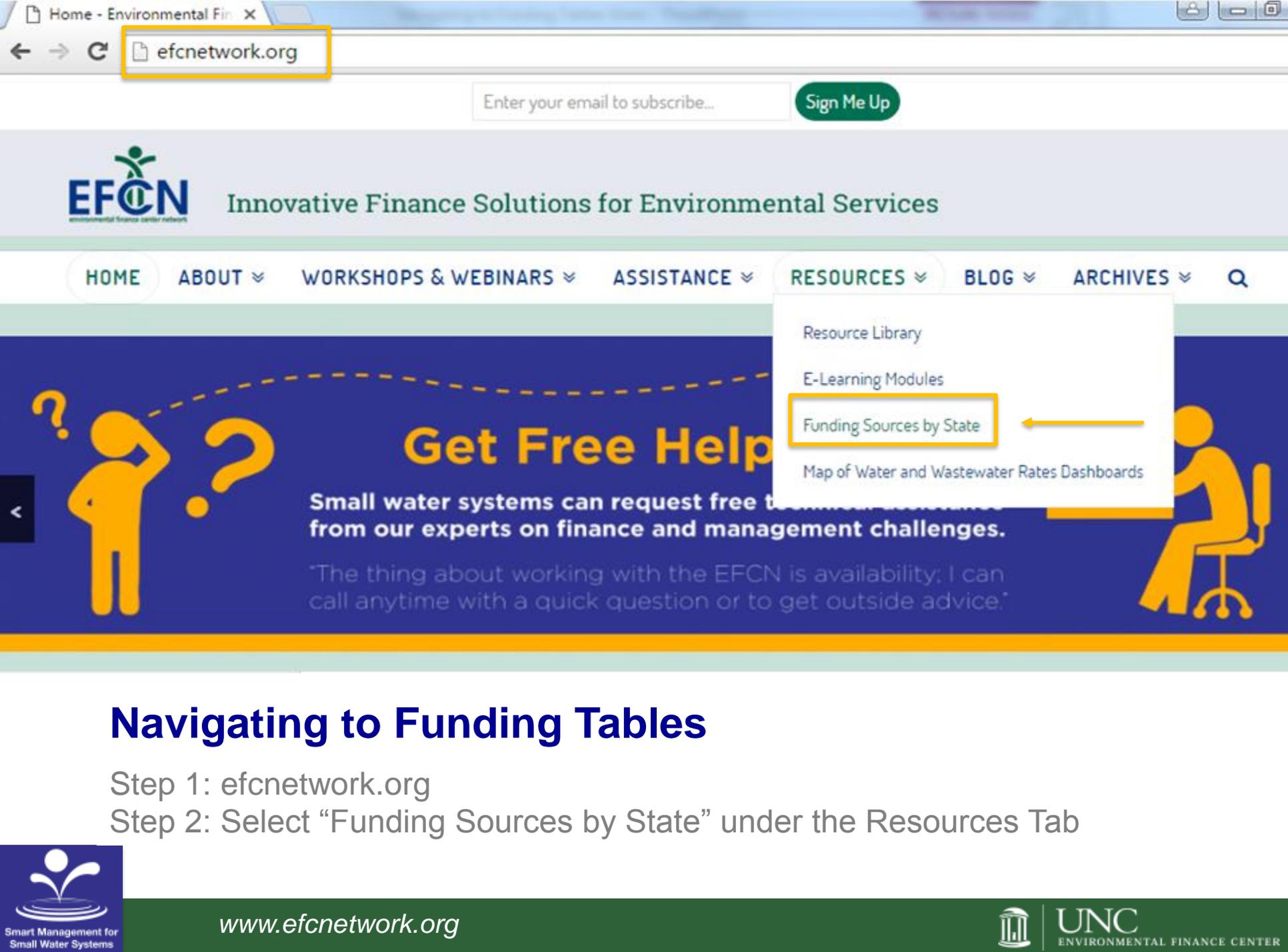
- **Environmental Finance Center at University of North Carolina at Chapel Hill**
- Southwest Environmental Finance Center
- Syracuse University Environmental Finance Center
- Environmental Finance Center at Wichita State University
- EFC West
- Environmental Finance Center at University of Louisville
- 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



## Navigating to Funding Tables

Step 1: efcnetwork.org

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

# Funding Sources by State

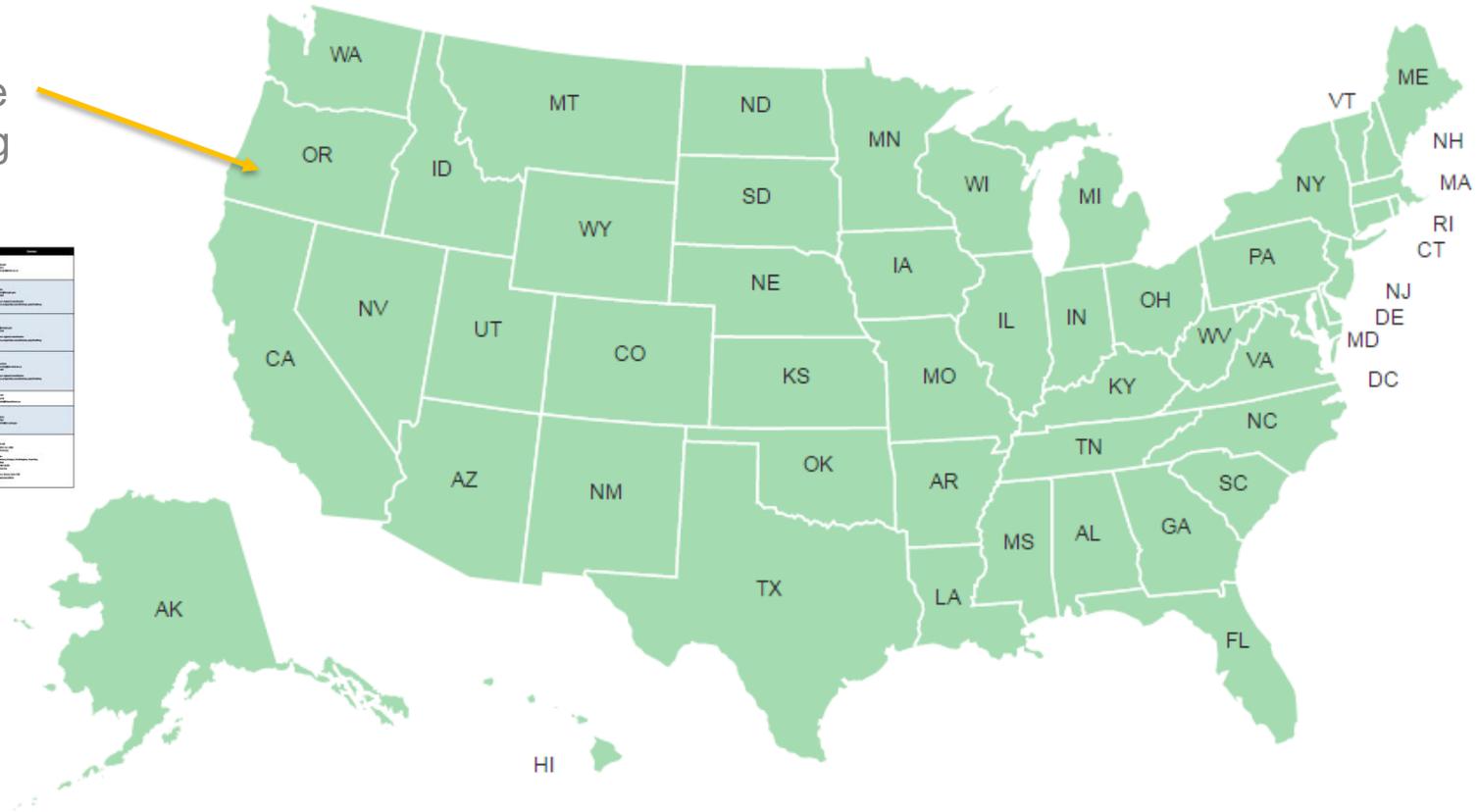
*Note: Some states may have additional resources listed below the map.*

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

Click on an individual state to view funding table.



State	Funding Source	Link
AK	...	...
AL	...	...
AR	...	...
AZ	...	...
CA	...	...
CO	...	...
CT	...	...
DC	...	...
DE	...	...
FL	...	...
GA	...	...
IA	...	...
IL	...	...
IN	...	...
KS	...	...
KY	...	...
LA	...	...
MA	...	...
MD	...	...
ME	...	...
MI	...	...
MN	...	...
MO	...	...
MS	...	...
MT	...	...
NC	...	...
ND	...	...
NH	...	...
NJ	...	...
NM	...	...
NV	...	...
NY	...	...
OH	...	...
OK	...	...
OR	...	...
PA	...	...
RI	...	...
SC	...	...
SD	...	...
TN	...	...
TX	...	...
UT	...	...
VA	...	...
VT	...	...
WA	...	...
WI	...	...
WV	...	...
WY	...	...





# 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
- Funders Forum

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

Where: Lincoln, NH



# Energy Management Workshop Series



Who: David Tucker, Environmental Finance Center at UNC

What: One Day Workshop Covering:

- Special Financing Mechanisms for Energy Projects
- Maintaining Momentum
- Communication Strategies

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

Where: Plymouth, NH



# Energy Management Workshop Series





# Workshop 3 Agenda

Start Time	Topic
9:00	Welcome Back, Progress Updates, and Questions
9:45	Financing Energy Projects II: Special Financing Mechanisms for Energy Management
10:45	<i>Break</i>
11:00	Interactive Demo of the Internal Energy Revolving Fund tool
11:30	Developing an Implementation Plan
12:15	<i>Lunch Break (on your own)</i>
1:15	Infrastructure: The Movie” (short video)
1:30	Progress Tracking and Reporting
2:15	<i>Break</i>
2:30	Value of Communication / Message Mapping
3:15	Workshop Series Close-Out, Next Steps, and Evaluations
3:45	<i>End Day</i>



# Introductions / Checking In

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



# Assignments from Workshops 1 & 2

- Share about using the energy baseline tool:
  - Entering 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 assessments.
- What ideas have you come up with for how to:
  - Pay for these projects?
  - Prioritize these projects?
  - Implement these projects?



# Key Take-Aways from Workshops 1 & 2?

- From water systems in attendance at the first and second workshops?
- Lingering questions from any/all of the water systems?
- Anything to review from workshops 1&2?



# Energy Management Program - Basic Steps

- Step 1. Establish Organizational Commitment
- Step 2. Develop a Baseline of Energy Use
- Step 3. Evaluate the System and Collect Data
- Step 4. Identify Energy Efficiency Opportunities
- Step 5. Prioritize Opportunities for Implementation
- Step 6. Develop an Implementation Plan
- Step 7. Provide for Progress Tracking and Reporting

Source: NYSERDA