Smart Management for Small Water Systems

Managing Energy at Your Small Drinking Water System – A Workshop Series for North Carolina Utilities

Workshop 2 – Wednesday, 01/04/17
Land-of-Sky Regional Council,
Asheville, NC
Facilitators – David Tucker and
Carol Rosenfeld (UNC EFC)

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

EFCN environmental finance center network

American Water Works Association

UNC ENVIRONMENTAL FINANCE CENTER

Southwest 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

UNC ENVIRONMENTAL FINANCE CENTER

Southwest Environmental Finance Center

Environmental Finance Center Syracuse University

WSU Wichita State University Hugo Wall School of Public Affairs Environmental Finance Center

EFCWest Environmental Finance Center West

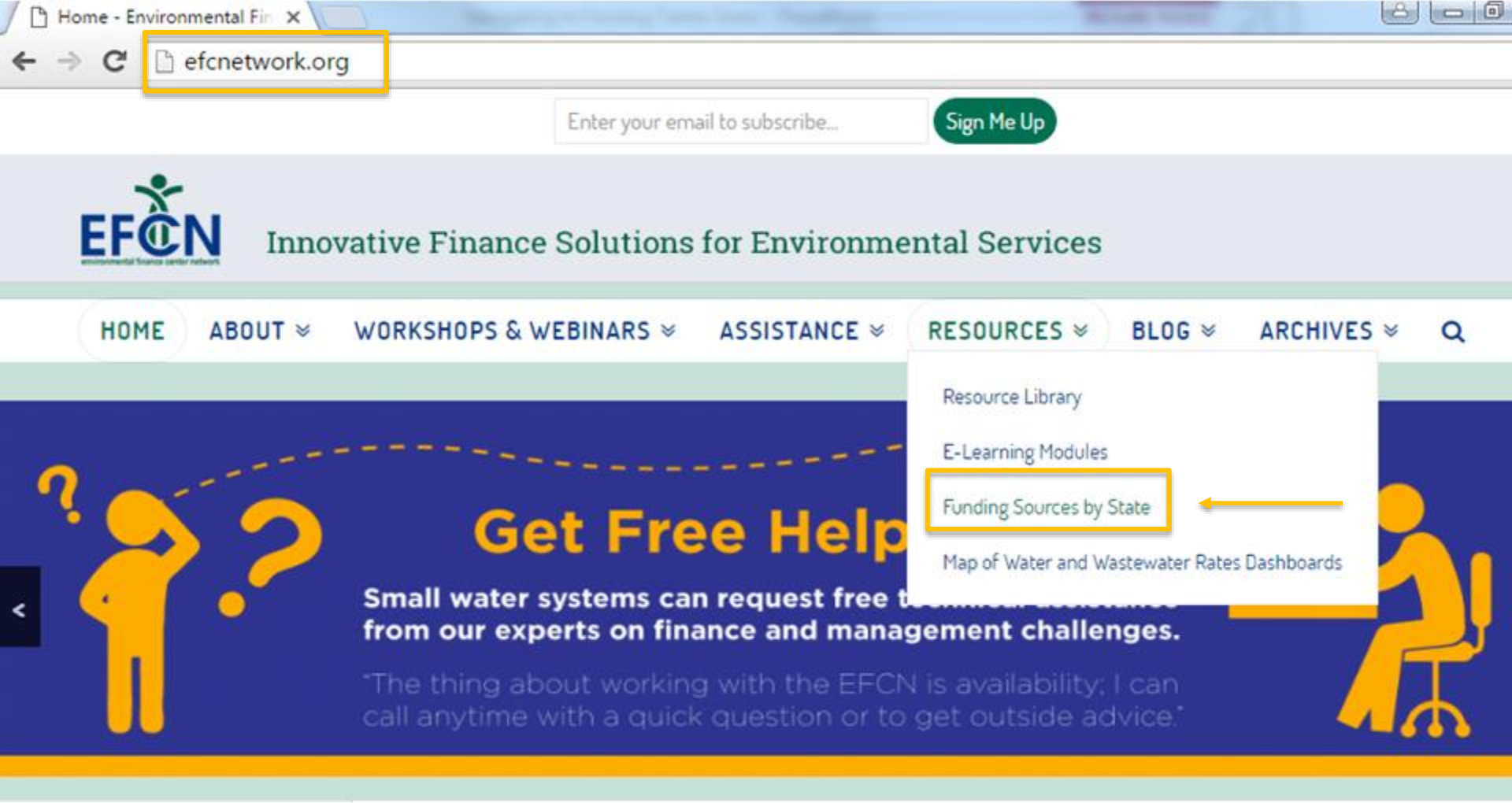
University of Louisville Center for Environmental Policy & Management

Great Lakes Environmental Finance Center

New England Environmental Finance Center

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

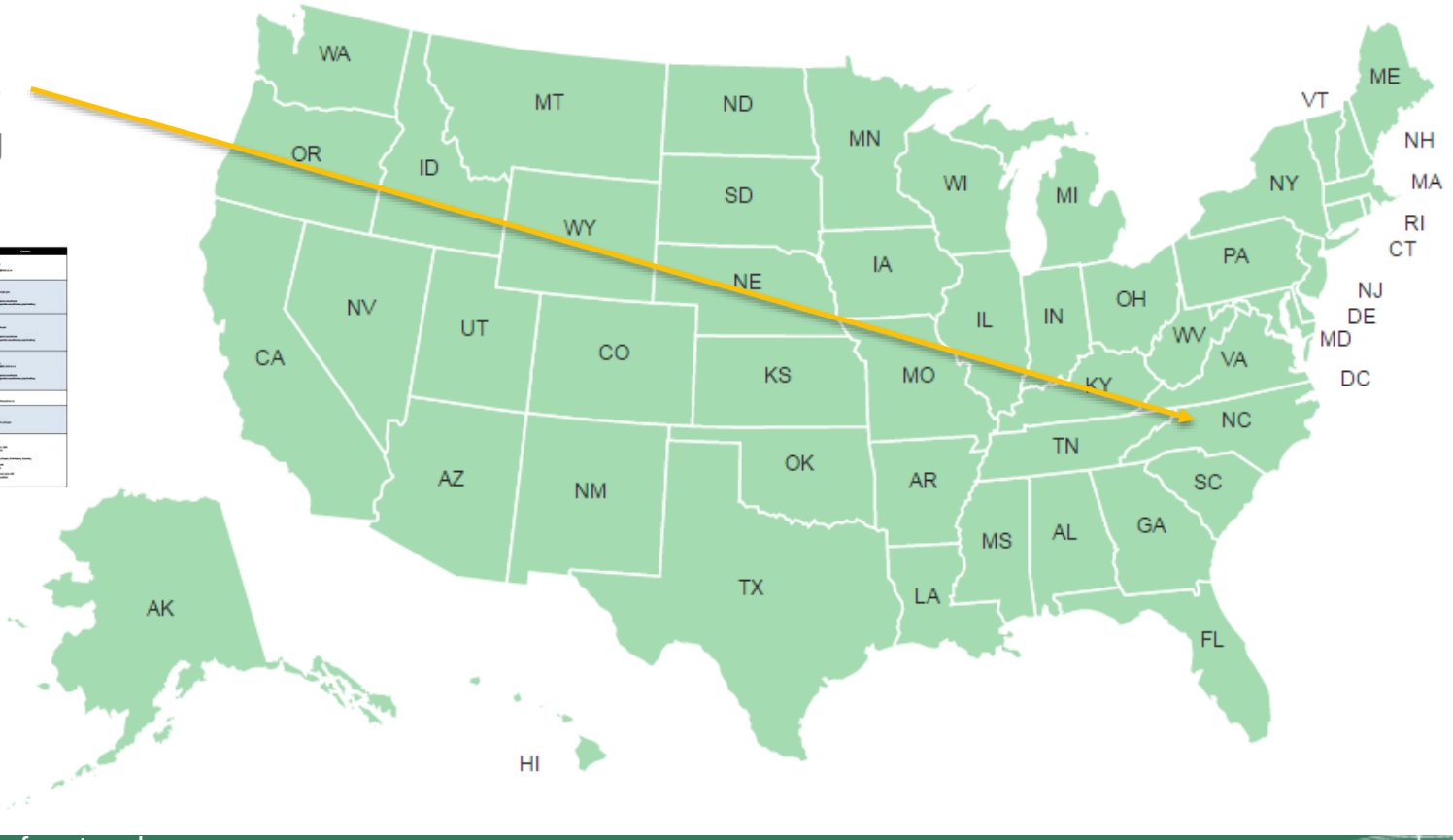
efcnetwork.org/funding-sources-by-state/

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.



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

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

On-site Energy Assessment → Workshop 1 → Workshop 2 → Workshop 3

Who: Dawn Nall, Southwest Environmental Finance Center

What: On-Site Water System Energy Assessment

Where: Your Water System

Energy Management Workshop Series

On-site Energy Assessment → **Workshop 1** → Workshop 2 → Workshop 3

Who: Dawn Nall, Southwest Environmental Finance Center, and Carol Rosenfeld, Environmental Finance Center at UNC School of Government

What: One Day Workshop Covering:

- Overview of Energy Management Planning
- Review of Energy Assessments
- Understanding Your Water System's Energy Bill

When: Tuesday, November 29, 2016

Where: Land-of-Sky Regional Council, Asheville, NC

Energy Management Workshop Series

On-site Energy Assessment → Workshop 1 → **Workshop 2** → Workshop 3

Who: David Tucker and Carol Rosenfeld, Environmental Finance Center at UNC School of Government; Potential guest speakers on financing options or other topics

What: One Day Workshop Covering:

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

When: Wednesday, January 4, 2017

Where: Land-of-Sky Regional Council, Asheville, NC

Energy Management Workshop Series

On-site Energy Assessment → Workshop 1 → Workshop 2 → **Workshop 3**

Who: David Tucker and Carol Rosenfeld, Environmental Finance Center at UNC School of Government; Potential guest speakers on special topics

What: One Day Workshop Covering:

- Maintaining Momentum
- Communication Strategies
- Special Energy Topics

When: Thursday, January 26, 2017

Where: Land-of-Sky Regional Council, Asheville, NC

Energy Management Workshop Series

Site-Specific Comprehensive Energy Management Plan

Energy Management Workshop Series

☺ Assignments between meetings ☺

Workshop 3 Agenda

Start Time	Topic
9:00	Welcome Back, Review from Workshop 1, and Questions
9:30	Presentations and Discussion of Possible Energy Management Projects
10:00	Project Prioritization *(including Four Quadrants exercise)*
10:45	*Break*
11:00	Financing Energy Projects I: Capital Projects and Project Economics
11:45	*Lunch (on your own)*
12:45	Energy Savings Performance Contracting (ESPC)
1:30	Panel Presentation: Financing Energy Management Projects
2:30	*Break*
2:45	Financing Energy Projects II: Special Financing Mechanisms for Energy Mgt.
3:30	Brief Introduction to N.C. Residential Water & Wastewater Rates Dashboard Tool
3:45	Close-Out Discussion, Evaluations, and Assignments
4:00	*End Day*

Checking In and Questions

- Beech Mountain, Town of
- Canton, Town of
- Marshall, Town of
- Mayodan, Town of
- North Wilkesboro, Town of
- Robbinsville, Town of
- Wilkesboro, Town of

Checking In and Questions

- Name, organization, and role at organization
- One thing you're looking forward to about the new year?
- Questions about the energy usage baseline builder tool?
- Other workshop series questions?

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?

Water System Presentations

- What are the 3 to 5 ideas you have come up with for energy management projects?
  - Can be process changes, capital projects, energy rate schedule changes, etc.
- Bonus questions:
  - Have you thought about how to pay for them?
  - Have you thought about how to prioritize them?