



### **Beyond Rates: Funding and Other Finance Strategies**







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







#### Session Objectives

- Learn about other common sources of water system revenue and controlling costs
- Understand the debt market
- Discuss available loan and grant programs







#### Options for controlling O&M costs

- 1. Perform a water audit (EPA style)
- 2. Find and reduce leaks
- 3. Efficiency and accuracy of your meter reading, billing and collections
- 4. Replace water meters (some meters become less accurate over time)
- Ensure that power rates are most appropriate for your water system





#### Options for controlling O&M costs

- 6. Install energy efficient equipment or modify operations to lower energy use
- 7. Track expenses over time and look for different vendors or labs if costs grow too quickly
- 8. Share resources between departments
- 9. Partner with another water system
- 10.Another option: transfer the assets of the water system





#### **Control Costs**

 Partner with other water systems to arrange a bulk purchase of chemicals

 Perhaps consider sharing staff or equipment with other water systems

Join NCWaterWARN (ncwaterwarn.org)







#### ncwater listserv

- Free to sign up
- Ask a question, everyone on listserv gets your question. Any reply goes to all on the listserv too.
- Ask questions, share information, announcements of training courses, etc.
- Administered by the EFC at the School of Government
- Sign up at efc.sog.unc.edu (search for "ncwater")







### **External Funding**







#### Everyone's Favorite: Grants

How can I get them?

Are they sustainable?

Who's handing them out?

Do they even exist?!







#### In reverse order

Do they even exist?!

Who's handing them out?

Are they sustainable?

How can I get them?

Yes

Mostly DWI (DEQ)

No!

Compete, fiercely







### What are the DWI grants?

- Community Development Block Grant-Infrastructure (CDBG-I)
- State Project Grants
- Merger/Regionalization Feasibility Grant
- Asset Inventory and Assessment Grant







# Grants Aren't Completely Free Money

- Application for the grant can be expensive staff time and money
- Applications can take months to process
- Often lots of strings attached
- Often require a percentage match
- Lots of competition
- Difficult to sustain







### Quick Thought on Grants

- This presentation is about sustainable program finance
- Grants are not sustainable finance.
   They are a one-time source of funding that's nice to have but not reliable or consistent by any means.







### The Main Source of Funding: Your Revenue

- Pay as you go (current receipts)
- Save in advance and pay
- Pay later (someone loans you money)
- -- Grants (let-someone-else-pay)----







#### Types of Revenue

- Rates
- Period charges
- Assessments
- One-time fees
- Innovative funding sources (services)
- Debt (commercial and subsidized)







### Periodic Charges

Deposits on new accounts

- Penalties for late payment
- Cutoff/reconnection fees

Meter re-reading fees





#### Assessments

- A recurrent charge to a sub-group of the population
- The sub-group receives benefits from an environmental service or improvement not enjoyed by others in the area
- Close cost/benefit relationship → equity







## Tap & System Development Fees (Impact Fees)

- One-time charges to new users
- Tap/Connection Fees: cost of labor and materials to physically connect a premise to the distribution network
- Impact Fee/SDC: a capacity charge







# Recent changes to NC impact fees/SDC – August 2016

- No change to districts/authorities
- Municipalities: can no longer charge impact fees!
  - Unless, perhaps, can show that fees are priced to pay for services already being furnished to the premise (no future capital costs, no double-charging past capital costs, charged pursuant to development agreement)







# Recent changes to NC impact fees/SDC – August 2016

- See Kara Millonzi and <u>Jeff Hughes</u> blogs (SOG Coates Canons and EFC Environmental Finance)
   listed at <a href="http://www.efc.sog.unc.edu/project/north-carolina-water-and-wastewater-rates-and-rate-structures">http://www.efc.sog.unc.edu/project/north-carolina-water-and-wastewater-rates-and-rate-structures</a>
- Or view a recorded SOG/EFC webinar video at <a href="http://www.efc.sog.unc.edu/event/webinar-update-water-utility-authority-charge-impact-fees-and-other-upfront-charges">http://www.efc.sog.unc.edu/event/webinar-update-water-utility-authority-charge-impact-fees-and-other-upfront-charges</a>







### Innovative Funding Sources

 For example, rent out your water tower for cellphone receivers or put ads on

the tower itself









#### The Debt Market

Why Borrow?

Water infrastructure has a long useful life. You may wish to amortize the loan over the life of the equipment so that the people who benefit from the system pay for it.







### When You Need Cash Now: The Debt Market

Lenders will look at your creditworthiness, your ability to repay the debt, in determining whether to loan to you and your interest rate







#### The Debt Market

- Two types—Loans and Bonds
  - Loans are universally available
  - Bonds are typically only available to large systems with significant revenues and managerial capacity







#### Loans

Typically from a bank

 Can be from a government-sponsored program such as the Drinking Water State Revolving Fund or USDA







#### Bonds

- A written promise to repay borrowed money (on a definite schedule and usually at a fixed rate of interest for the life of the bond)
- Different types exist:
  - General Obligation (GO)
  - Revenue







#### **Common Debt Options**

Advantage	
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<u>Disadvantage</u>

G.O. Bonds: Low Relative Interest Cost:

Lower Issuance Cost

Referendum Required (Politically Sensitive); Lower Structuring Flexibility

Greater Flexibility (Term, Revenue

Amortization); No

Referendum; Advantageous

for Self Supporting Systems

**Higher Issuance Cost** Higher Relative Interest Cost; Feasibility Study

Installment **Purchase/Certi** ficate of

**Participation** 

No Referendum; Lower Cost

of Issuance for Private

**Placements** 

Secured by asset, Placement, limits future options



**Bonds:** 





# Some Projects Can Be Funded by a Single Source But Many Require More Than One Source of Funding







#### Subsidized Loan & Grant Programs in NC

- Division of Water Infrastructure (NCDEQ)
- USDA
- NC Dept of Commerce (EDA, ARC)
- Golden Leaf Foundation

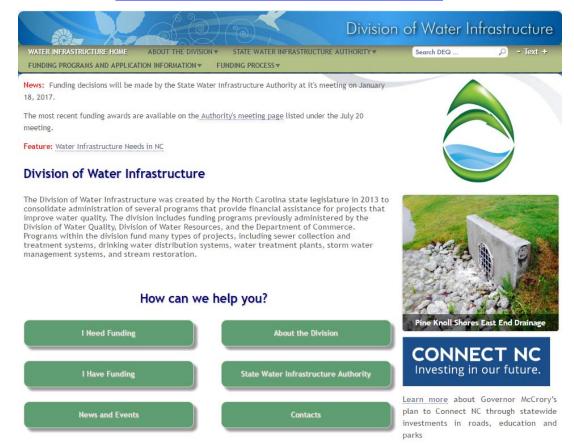
See matrix with contacts and information at <a href="http://efcnetwork.org/resources/funding-sources-by-state/">http://efcnetwork.org/resources/funding-sources-by-state/</a>





#### Division of Water Infrastructure

http://portal.ncdenr.org/web/wi/









#### Division of Water Infrastructure



Funding Programs and Application Information

#### **Funding Programs and Application Information**

The division provides low interest loans and grants for local governments and certain other non-profit entities for water infrastructure through a number of programs. A brief description of each program is provided below. Additional information for each program can be found by clicking on the link.

Contact us if you need assistance determining which program is the best fit for your project needs!

Clean Water State Revolving Fund (CWSRF): Provides low interest loans to local government units to fund wastewater collection and treatment facilities as well as programs associated with estuary and non-point sources.

**Drinking Water State Revolving Fund (DWSRF)**: Provides low interest loans to local government units and certain non-profit water corporations for projects to provide safe drinking water.

**Community Development Block Grant - Infrastructure:** Provides grants to local government units to address water and wastewater infrastructure needs in HUD qualified low to moderate income communities.

**State Wastewater & Drinking Water Reserve Programs**: Provides grants for technical assistance and for construction of critical needs for wastewater collection systems, wastewater treatment works, and public water system projects.

Merger/Regionalization Feasibility Grant Program: Provides grants for studies to evaluate the potential consolidation of two or more systems into one system and the potential physical interconnection with another system for regional wastewater treatment or regional water supply.

Asset Inventory and Assessment Grant Program: Provides grants for developing asset inventories, condition assessment of critical assets, and other components of a comprehensive asset management programs.

#### **Application Process**

- · Applications are accepted either once or twice per year, depending on the funding program.
- Depending on the funds available and the number of applications received, funding awards are often competitive.

#### **Application Deadlines**

- CWSRF: Sept. 30, 2016
   CDBG-I: Sept. 30, 2016
- DWSRF: Sept. 30, 2016
- · State Project Grants: Sept. 30, 2016
- · AIA Grants: Sept. 30, 2016
- · MRF Grants: Sept. 30, 2016

#### **Application Training**

 Application Training Workshops: August 2016







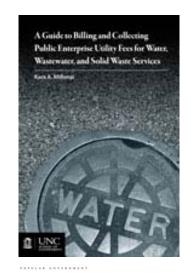


### Closing





### School of Government resources on **Enterprise Funds**

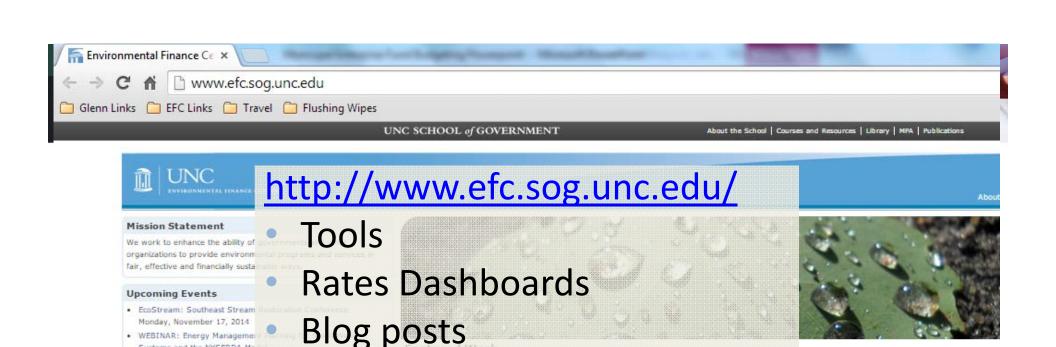


http://www.sog.unc.edu/, click on Publications

A Guide to Billing and Collecting Public Enterprise Utility Fees for Water, Wastewater, and Solid Waste Services

(Kara Millonzi)

"The Painful Art of Setting Water and Sewer Rates" (Jeff Hughes)



#### Latest News

 New Video Series Highlights Cr Utilities

· WEBINAR: Energy Manageme Systems and the NYSERDA Mo

Tuesday, December 2, 2014 · Environmental Public-Private P Tuesday, December 9, 2014

A new series of educational vid Environmental Finance Center from the Water Research Four accessible, and easily shareable management topics designed s governing boards. The Water@ challenges faced by water utilit catching visualizations and easy concepts that can otherwise be

. The EFC Awarded \$2M for its Smart Hanagement for Small Water Systems Project

To improve the country's smallest water systems - those serving fewer than 10,000 people - the U.S. Environmental Protection Agency (EPA) awarded \$2 million to the Environmental Finance Center at the University of North Carolina at Chapel Hill,

1 of 5 next >

Guidebooks

**Technical Assistance** 

(http://efc.web.unc.edu)

Courses

Videos

The Environmental Finance Center and the Water Infrastructure Finance Authority of Arizona conducted a water and wastewater rates survey of over 400 utilities in the Dashboard, and other resources to assist utilities and their stakeholders in analyzing and benchmarking their current rates and financial condition.

Through the Smart Management for Small Water Systems project, the EFC works to improve the financial and managerial capabilities of the nation's smallest, most plentiful, and neediest public water systems - those serving fewer than 10,000



#### Water & Wastewater Residential Rates Affordability Assessment Tool

The EFC's new easy-to-use Excel tool guides a utility to assess the relative affordability of its water and wastewater rates on its residential customers using

Tweets







#### **Smart Management for Small Water Systems**

under a Cooperative Agreement with the US EPA

#### http://efcnetwork.org

- The EFCN (including the EFC at the UNC School of Government) will provide free trainings, webinars, tools and direct assistance to small water systems serving fewer than 10,000 people on:
  - Asset Management
  - Water Loss Reduction
  - Water System Collaboration
  - Fiscal Planning and Rate Setting
  - Energy Management
  - Funding Coordination, and
  - Managerial and Financial Leadership
- Free in-depth (multi-day or multi-hour) assistance available. Sign up at <a href="http://efcnetwork.org/assistance/request-assistance/">http://efcnetwork.org/assistance/request-assistance/</a>





### Let's Revise Our Quiz!







# 1) Local governments' water systems are funded by revenues from the General Fund

- A. True
- B. False
- C. I don't know







# 2) A debt service coverage ratio of +0.9 is:

- A. A sign of financial trouble 😊
- B. A sign of good financial health ©
- C. I don't know







## 3) Nationally, construction costs are:

- A. Growing at the current rate of inflation
- B. Growing at about 3%/year
- C. Relatively stable
- D. Lower than before the Great Recession
- E. I don't know







# 4) An Asset Management Plan starts with

- A. A list of future capital projects
- B. Projections of population growth
- C. An inventory of the water system's equipment
- D. I don't know







# 5) The majority of a water system's revenues depends on how much water customers use

- A. True
- B. False
- C. I don't know







# 6) Municipalities in NC are allowed to charge "impact fees" for water:

- A. True
- B. False
- C. It depends
- D. I don't know







# 7) Grants for water systems in NC:

- A. Are non-existent
- B. Are limited and highly competitive
- C. Fund a significant number of projects
- D. Are basically "free money"
- E. I don't know







#### Thank You!

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- Scan your operator card
- Sign out (name and ID)
- Pick up certificate

#### P.E.s

- Complete and return
   TWO evaluation forms
- Sign out (name and ID)
- Pick up certificate
- Self-report online when you are home/at work



