

Financial Management for Small Water Systems: How to Plan for the Next Five Years and Secure Funding

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



Background

Applying for a grant or a loan?



Compare and Contrast Grants vs Loans: Sustainable Funding Sources

How the Payments are Made For Infrastructure Projects

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

About Grants

M FREE Grant Money For You - Message (HTML) File Edit View Insert Format Tools Actions Help 🕺 Reply 🧔 Reply to Al 🐝 Forward 🖨 🖻 🔻 📑 🗙 🔺 🔹 🖈 🔹 🌋 😰 🖕 From: Amy Cornett [suny@easypeasy.com] jezter@email.unc.edu To: Cc: Subject: FREE Grant Money For You Qualifying for a free cash grant is easy! \$10,000 to over \$500,000 in FREE Grant Money is Available NOW! Never Repay No Credit Checks No Interest Charge To see if you meet the requirements, please visit our web site: CLICK HERE NOW! NOT a good way to find a grant! With best regards, The Grant Giveaway Team

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

In the Old Days...

- Water systems took advantage of the federal government's ambitious construction grants program of the 1970s and 1980s
- It seemed like "free" money

Capital Finance Today

- The money never really was "free"—it came from tax dollars
- Today, the financial burden has been shifted away from federal and state tax dollars (grants) to funds raised by the water system itself (customer sales and loans). For example...



State and local government spending on water and wastewater utilities continued to grow while federal spending declined since the 1980s

State and local governments spent 24 times as much as the federal government in 2014



Graphed by the Environmental Finance Center at the University of North Carolina, Chapel Hill. Source: Congressional Budget Office supplemental data for the *Public Spending on Transportation and Water Infrastructure, 1956 to 2014* report (March 2015). Displays public spending on supply systems for distributing potable water as well as wastewater and sewage treatment systems and plants. Real spending is shown after adjusting nominal spending to their 2014 dollar equivalent using infrastructure-specific price indexes.



Loans

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

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



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



Source: bettermondays.com

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
- Certain best practices can increase your chances of funding

Using Metrics from a Rates Dashboard

Rates Dashboards

Select "Map of Water and Wastewater Rates Dashboards" under the Resources Tab, and click on any state in blue to view its dashboard.



Click a state in blue to view its dashboard

This map shows Water and Wastewater Rates Dashboards created by the EFCN:











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Benchmarking

Can You Sleep at Night?

Is your system self sufficient?

Are you able to cover your debt service after paying for your day to day operations?

If your customers stop paying their bills, how long can you maintain operations?

Can your system meet its short term obligations?

How much of your system's expected life has already run out?

Operating Ratio

Debt Service Coverage Ratio

Days Cash on Hand

> Current Ratio

Asset Depreciation

Whiteboard Video: Financial Benchmarking for Water Utilities

http://www.waterrf.org/Pages/Projects.aspx?PID=4366





Quick Review of Key Financial Indicators

Operating Ratio

Current Ratio

Debt Service Coverage Ratio Days of Cash on Hand

Asset Depreciation



Is your system self-sufficient?



Operating Ratio

OPERATING REVENUES





Read more: http://efc.web.unc.edu/2015/02/27/operating-ratio/



Are you able to cover your debt service after paying for your day to day operations?

Debt Service Coverage Ratio

OPERATING REVENUES - OPERATING EXPENSES (EXCLUDING DEPRECIATION)

PRINCIPAL INTEREST PAYMENTS ON LONG TERM DEBT

Read more: http://efc.web.unc.edu/2015/04/23/debt-service-coverage-ratio/



Can your system meet its short term obligations?



UNRESTRICTED CURRENT ASSETS EXCLUDING INVENTORIES AND PREPAID ITEMS

CURRENT LIABILITIES

Read more: http://efc.web.unc.edu/2015/10/01/key-indicator-current-ratio/



If your customers stop paying their bills, how long can you maintain operations?



Days Cash on Hand

UNRESTRICTED CASH AND INVESTMENTS

OPERATING EXPENSES EXCLUDING DEPRECIATION & AMORTIZATION / 365

Read more: http://efc.web.unc.edu/2015/06/24/days-cash-on-hand/



How much of your system's expected life has already run out?



Asset Depreciation

= Accumulated Depreciation Gross Plant and Equipment

Caveat: this indicator is only as accurate as your depreciation schedule, and even then historic pricing is likely to distort the results.

Where Do We Get Started?

- Local governments: audited financial statements
- Non-governments: balance sheets, shareholder reports, annual reports, etc.

STATEMENT OF NET ASSETS PROPRIETARY FUND JUNE 30, 2011	
Assets	Willer and Server Enterprise Fund
Current Assets:	And the second s
Cash - openting	s 568.061 - O
Astronuts Receivable (Net)	66.346
Propoid Insurance	5.856 70
Total Correct Assets	640,263
Noteurrent Assets:	
Restricted cash	177,208
Capital assets	
Land	209,556
Buildings	22,982
improvements other than buildings	5,873,709 5(9)
Machinely and equipment	896,073
Contraction in program	1,454,079
Cens: Accumulated deprecation	(2,883,225) -
Defended Charge	30,833
Total Americanet assets	5,781,215
LOUD ADRES	6,421,478
Unbilities	
Current Linhilities:	
Accounts Payable	21,090
Arrned Espenses	2.767
Due to Other Funda	8,176
Castorior Deposits	62,625
Deferred Subsidy Revenue	460,005
Current Portion of Long Torin Debt	343,811
Form Correct Lisbillies	398,474 - 0
Comparent Labrings:	14 504
Compensation Australian	15,693
Notes Provide (Net of current portion)	233,337
Total Noncorrent Lightlifes	880 974
Total Liabilities	1.785.399
	Internet a
Fund Net assets	
invested in capital asnets, net of related debt	4,355,133
Restricted for debt service	114,583
Unrestricted	163,363
Fold fund net assets	<u>5 4.633.079</u>

Financial Health Checkup for Water Utilities http://efc.sog.unc.edu or http://efcnetwork.org Find the most up-to-date version in Resources / Tools **Financial Health Checkup for Water Utilities** Excel[®]- based tool Free to use ENVIRONMENTAL FINANCE CENTER ped by the Environmental Finance Cente A resource for water systems through the Environmental Finance Center Network's at the University of North Carolina, Chapel Hill Smart Management for Small Water Systems project funded under a cooperative agreement with the U.S. Environmental Protection. http://efcnetwork.org http://efc.soq.unc.edu What does this tool do? This tool assists in the assessment of the financial performance of a water (and/or wastewater) utility fund. Financial data readily available in annual financial statements are copied into this tool, which computes key financial indicators that measure a variety of important metrics, such as the ability to pay debt service, availability of cash to pay for operations and maintenance, the sufficiency of revenues generated, etc. Each metric is compared against targets that are specified by the user. The tool demonstrates the financial strengths and weaknesses of the utility fund in the past 5 years. Assessment for Town of Anywhere Features: Did you generate the revenues needed to pay for O&M by itself Simple data entry (uses data already reported in your audited financial statements) Did you generate the revenues needed to pay for O&M and a little for capital? Did you generate the revenues needed to pay for O&M and existing debt service 6 financial performance indicators with explanations **Operating Ratio, including depreciation Operating Ratio, not including depreciation Debt Service Coverage Ratio** Set your own targets 2.00 2.50 2.00 1.80 1.80 1.60 1.40 Assessment of last year's financial ratios, improvements since previous year, and five-year trends 1.60 2.00 Guided navigation through hyperlinked images 1 40 1.20 1.50 1.20 1.00 What are financial indicators? 1.00 0.80 0.80 1.00 Watch a whiteboard video explaining financial performance indicators in lay terms. 0.60 0.60 Q. 0.40 0.50 0.20 0.20 0.00 0.00 0.00 2012 2010 2013 2014 2010 2013 2013 2010 2011 2011 FINANCIAL Did you hav rrent liabilities at the end of the yea our utility's assets depreciated (nearing the end of their live e to operate the utility BENCHMARKING **Ouick Ratio** Percent of Capital Assets Depreciated 7.00 6.00 10% 20% 500 5.00 30% 400 40% 50% 4.00 300 3.00 60% 70% 200 2.00 80% 100 1.00 90% 100%

Created by the Environmental Finance Center at the University of North Carolina, Chapel Hill's School of Government A resource for water systems from the EFCN's Smart Management for Small Water Systems project funded under a cooperative agreement with the U.S. E.P.A.



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Why Care About This?

- Funders and ratings agencies care about this
- As you think about the future needs of your system, you have to know where you are starting from



So....

- Now that we know where we are, let's decide where we are going...
- How do we estimate the future costs and revenues?



BREAK