



Rates and Finance Workshop for Small Water Systems

09/21/17| St. George, UT www.efcnetwork.org









Applying for a grant or a loan?



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



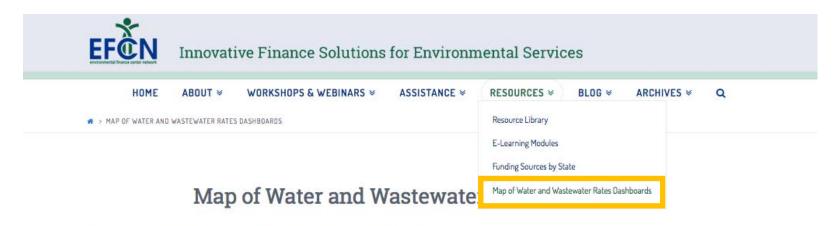
When You Need Cash Now: The Debt Market

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



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



Click a state in blue to view its dashboard



Example Dashboard:

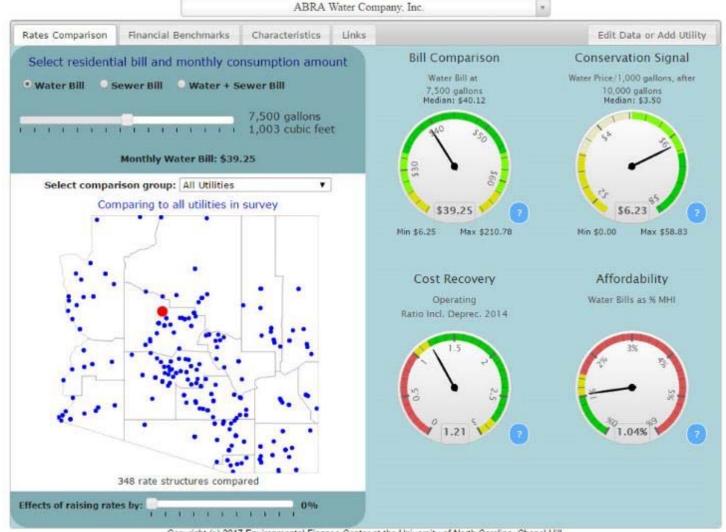


AZ Water and Wastewater Rates Dashboard

Rates as of April 2015

Last updated: September 9, 2015





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Example Dashboard:



AZ Water and Wastewater Rates Dashboard Rates as of April 2015



Last updated: September 9, 2015

ABRA Water Company, Inc. Rates Comparison Financial Benchmarks Characteristics Links Edit Data or Add Utility Select service provided. (Display will not change if the utility has a combined water and sewer enterprise fund.) Water Bill Sewer Bill Water + Sewer Bill Ability to cover expenditures and debt service Measures of liquidity **Cost Recovery** Op. Rev. / Op. Expend. Debt Service Coverage Ratio Days Cash on Hand Operating Ratio (Incl. Dep.) 1.25 1.0

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





ANNUAL COST OF WEAR
AND TEAR ON THE SYSTEM

OPERATING EXPENSES



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/



Debt Service Coverage Ratio

OPERATING REVENUES - OPERATING EXPENSES

(EXCLUDING DEPRECIATION)

PRINCIPAL INTEREST PAYMENTS ON LONG TERM DEBT

> 1.2

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



Can your system meet its short term obligations?



Current Ratio

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?

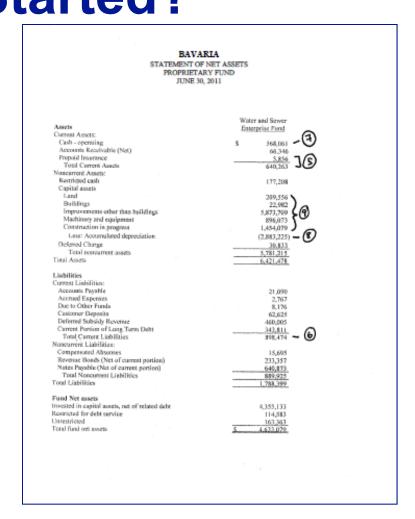
Asset Depreciation

 $= rac{Accumulated Depreciation}{Gross Plant and Equipment}$

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



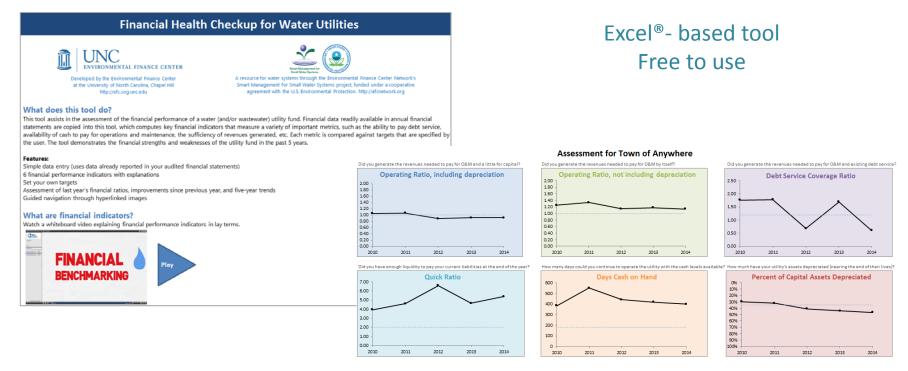
- Local governments: audited financial statements
- Non-governments: balance sheets, shareholder reports, annual reports, etc.





http://efc.sog.unc.edu or http://efcnetwork.org

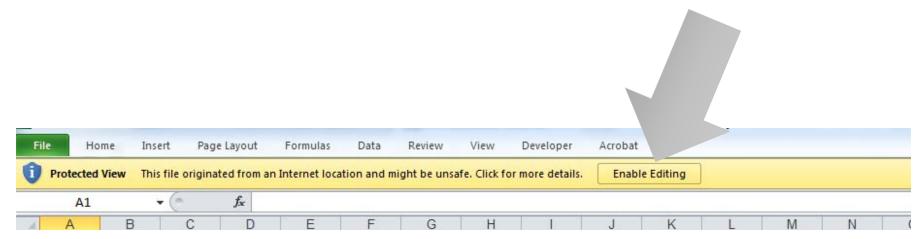
Find the most up-to-date version in Resources / Tools



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?