Water System Revenues

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Session Objectives

 Understand how to pay for the costs of running your water system

Look more closely at your rates

Systems Love Low Rates, but...



Citizen Survey Results

Council Agenda

Comprehensive Planning Information

Community Assessment

E-News Signup





News Flash - All

News Flash - Home

Low Water and Sewer Rates January 8, 2007

Once again, the City of and sewage rates in rates residents p providers to evalua is proud to say, based on City of household, the City has the third lowest water

bill of \$15.38, and sewage bill of \$10.36. As a result, combined residential water and sewage rates, of the 63 polled.

"Once again, the [City's] Water Department proved to have some of the lowest water and sewage rates in the state."

proved to have the third lowest

The commercial rates were also compared among the same providers, based on 150,000 gallons has the lowest sewage, as well as the lowest combined water and sewage rates of those nolled. The average commercial monthly sewage hill is \$222.00 with the combined

Are we following the applicable laws?

Will our rates provide sufficient cost recovery?

What exactly does this include?

Will revenues be resilient to changing water demands?

Will our customers be able to pay these rates?



Do these rates send the right signals to our customers, based on our objectives?

Will our customers understand these rates?

Are we allocating the costs to the right customers?

"Full Cost Pricing"

- Operations & maintenance expenditures
- Taxes and accounting costs
- Contingencies for emergencies
- Principal and interest on long-term debt
- Reserves for capital improvement
- Source water protection

Ways To Pay

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

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

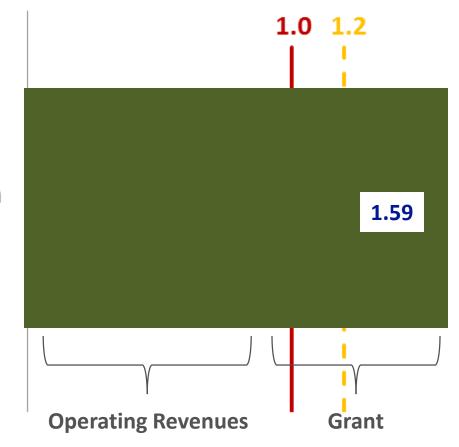
Quick Thought on Grants

 This presentation is about sustainable program finance

Grants are not sustainable finance

Grants Can Distort Operating Ratio

Sewer Program from Michigan



The Main Source: Your Revenue

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

Non-Rate Revenues

- Penalties
- Cellphone and radio receivers on the tank
- Ads on the tank
- Tap fees
- System development charges

Town of Jacksonville

Ve Charge A flat vate of \$ 15,00 modity

Po-Box 133

JACKSONLIB

We ARE A SMOIL HOWN WE DO NOT GAVE SOWOGE

Other Places with a Fixed Rate

- Small town in New York state that charges \$120/year, billed twice
- Trailer park in Ohio that includes water in the monthly rent
- HUD-subsidized apartments that must include water in rent

Other Places with a Fixed Rate

City of Chicago

Lots of meters to read



Drinking water supply

The Reef Condos - USVI



The Reef Condos – USVI

 Has residential units and commercial (shops and restaurants)

- Flat rate structure for residents
- Decreasing block for commercial
- Bulk rate for the next condo complex over

And then there is this...

Single outlet (Minimum charge)	\$193.00
One Bath	316.00
1 ½ or 2 Bath	349.00
2 1/2 Bath	379.00
3 or more Baths	413.00
Additional apartment/same service	316.00
Swimming pool	126.00
Each Boat slip with water available	16.00
Each Rental or Commercial Mooring	6.15
Each restaurant/snack bar seat	16.00

(Annual Rates)

Rank Your Rate Setting Objectives

Full cost recovery/ revenue stability

Encouraging conservation

Fostering business-friendly practices

Maintaining affordability

(keeping rates low – to whom?)

Elements of Rate Structure Designs

- 1. Customer classes/distinction
- 2. Billing period
- 3. Base charge
- 4. Consumption allowance included with base charge
- 5. Volumetric rate structure
- 6. (If applicable) Number of blocks, block sizes and rate differentials
- 7. Frequency of rate changes

Customer Classes/Distinctions

One rate structure for all

Target: All are equal

Customer Classes/Distinctions

 Separate rate structure for residential, irrigation, commercial, industrial, governmental, or wholesale customers

Target: Specific type of customer

#3 City of Stockbridge

Gallons of Water Metered

Residential

0 through 4,000 gallons 4,001 through 9,000 gallons 9,001 gallons and up \$ 4.56 Per Thousand \$ 6.99 Per Thousand

\$ 9.42 Per Thousand

\$ 4.56 Per Thousand

6.99 Per Thousand

\$ 9,42 Per Thousand

Commercial, Apartments and Mobile Home Parks

0 through 10,000 10,000 and up \$ 5.78 Per Thousand

\$ 6.95 Per Thousand

\$ 5.78 Per Thousand

6.95 Per Thousand

<u>Irrigation</u>

Per thousand gallons

9.26

Hydrant Meter

Per thousand gallons

\$ 9.26

Customer Classes/Distinctions

 One rate structure, but with different base charges based on meter size

Target: Non-residential or multi-family housing

#2 Mount Pleasant

Water Meter Size	0 to 2,000 Gallons	Gallons Over 2,000
Inside Town		
5/8" or 3/4"	\$21.00	\$3:40/1000
1"	\$39.80	\$3.40/1000
1 1/2 "	\$112.40	\$3.40/1000
2" and up	\$218.00	\$3.40/1000
Outside Town		
5/8" or 3/4"	\$36.75	\$5.95/1000
1"	\$69.65	\$5.95/1000
1 ½"	\$196.70	\$5.95/1000
2" and up	\$381.50	\$5.95/ 1000

#3 City of Stockbridge

Monthly Minimum Base Charge*

Meter	r Size	<u>Water</u>	<u>Sewer</u>
3/4	Most Residential	. \$ 6.00	\$ 6.00
1		\$ 7.00	\$ 7.00
1,5		\$ 37.00	\$ 12.00
2		\$ 100.00	\$ 12.00
3		\$ 175.00	\$ 12.00
4		\$ 225.00	\$ 12.00
6		\$ 300.00	\$ 12.00
8		\$ 400.00	\$ 12.00
10		\$ 700.00	\$ 12.00

Customer Classes/Distinctions

 One rate structure for all, but with blocks that implicitly only target non-residential use

Target: Non-residential

#4 Union Point

IN TOWN - 1/23/2006

STEP RATE CONSUMPTION

READY TO SERVE \$27.00

STEP 1 3.98

300,000 STEP 2 3.84 999,999,999

Customer Classes/Distinctions

 Different rates for customers outside municipal limits/service area boundaries

Target: "Outside" customers

#2 Mount Pleasant

Water Meter Size	0 to 2,000 Gallons	Gallons Over 2,000
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Customer Classes/Distinctions

 Negotiated rate structure with individual high-use customers (typically an industrial customer)

Target: Only one customer

Billing Period

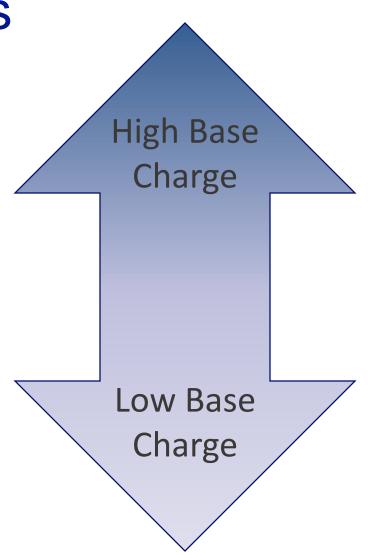
More Frequently
(e.g.: Monthly)

Less Frequently
(e.g.: Quarterly)

Suggestion: Use a monthly billing period if you can afford it

Base Charges

Suggestion: Smaller utilities should lean towards higher base charges



Consumption Allowance with Base Charge

Do not include any (0 gallons)

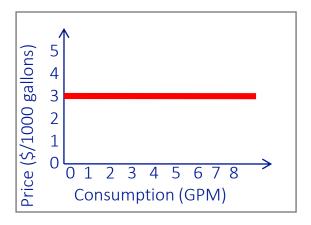
Include some amount (e.g. 1,000 gal/mo)

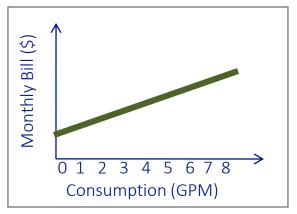
Include high amount (e.g. 3,000 gal/mo)

Suggestion: For systems with low base charges, do not include any consumption allowance. For systems with high base charges but wish to encourage conservation, keep consumption allowance low, if any.

Volumetric Rate Structure Uniform ("Flat") Rates

Fair and simple





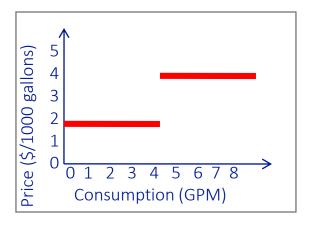
#2 Mount Pleasant

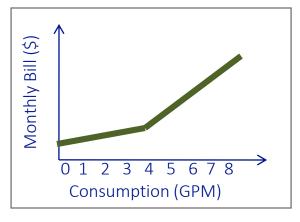
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Volumetric Rate Structure Increasing Block Rates

 Conservationoriented

Consider large families





#3 City of Stockbridge

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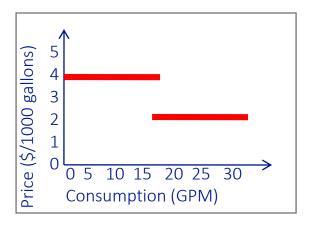
Per thousand gallons

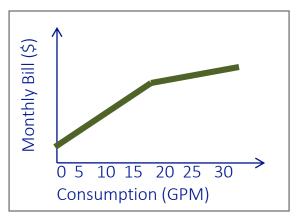
\$ 9.26

Volumetric Rate Structure Decreasing Block Rates

 Provide price break for large users (e.g.: commercial)

Do not use for residential





#4 Union Point

IN TOWN - 1/23/2006

STEP RATE CONSUMPTION

READY TO SERVE \$27.00

STEP 1 3.98

300,000 STEP 2 3.84 999,999,999

(If Applicable) Block Designs

For block rate structures to be effective:

- Decide on the correct number of blocks
- Decide on where the blocks should end/start
- Set significant rate differentials between blocks

(If Applicable) Block Designs

For block rate structures to be effective:

- Keep in mind your base charge and consumption allowance
- Meter reading must be punctual, and meters must be replaced frequently
- Think about large families

#5 – Too Many Blocks!

	Per 1000 gal.	water	Per 1000 gal.	sewer	combined
fixed 1000	rate	11.66	rate	13.10	24.76
2000	2.43	14.09	3.67	16.77	30.86
3000	4.85	18.94	7.41	24.18	43.12
4000	5.65	24.59	7.72	31.90	56.49
5000	5.78	30.37	8.06	39.96	70.33
6000	6.04	36.40	8.21	48.18	84.58
7000	6.23	42.63	8.40	56.58	99.20
8000	6.43	49.06	8.61	65.19	114.24
9000	6.63	55.68	8.79	73.97	129.65
10000	6.63	62.31	8.79	82.76	145.07
11000	6.63	68.93	8.79	91.55	160.48
12000	6.63	75.56	8.79	100.34	175.90
13000	6.63	82.18	8.79	109.13	191.31
14000	6.63	88.81	8.79	117.92	206.72
15000	6.63	95.43	8.79	126.71	222.14
15001-99999999	6.51	102.27	8.99	135.69	237.96

Frequency of Rate Changes

- Always review your rates annually (recommended)
- Review your financial health indicators annually, and then review your rates if any of the indicators reflect poor financing
- Raise rates each year automatically based on inflation

#8 Village of Richmond

SECTION 3.27 ANNUAL INCREASE OF RATES AND FEES

The following fees: Water and Sewer Service, Building Permit Fees, School Impact Fees, Fire Prevention and Life Safety Donations and Municipal Impact Fees as set forth by Village ordinance are subject to an annual increase to be applied by the Village Treasurer by May 1 of each year using the following prescribed formula:

The above rates and Fees will be increased by the amount of the percentage increase of the Consumer Price Index (hereinafter defined) for the previous calendar year. Consumer Price Index ("CPI") means the U.S. City Averages for all Urban Consumers, All Items, (1982-1984=100) of the United States Bureau of Labor Statistics. The CPI for any calendar year shall be determined by averaging the monthly indices for that year. If the Bureau of Labor Statistics substantially revises the manner in which the CPI is determined, an adjustment shall

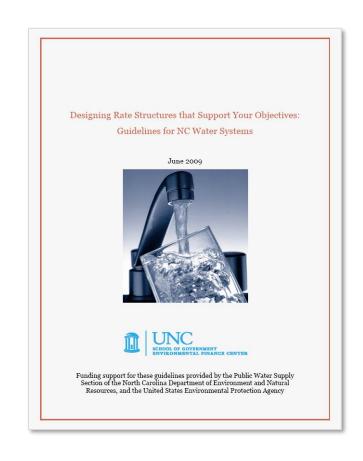
Frequency of Rate Changes

 Important: Avoid maintaining low rates at the expense of your utility's financial health. It will either lead to a sudden, massive rate increase in the future or to failing systems and endangering public health.

Designing Rate Structures That Support Your Objectives

Free guide written for system managers

Available at: http://efc.sog.unc.edu/



Before we go...

http://efcnetwork.org/small_systems_blog/

Learn more about water finance and management through our Small Systems Blog! Blog posts feature lessons learned from our training and technical assistance, descriptions of available tools, and small systems "success stories."



Blog



Magdalena, New Mexico: A Success Story from the Smart Management for Small Water

Written by: Allison Perch Allison Perch is a Program Coordinator with the Environmental Finance Cer financial health of its water system is at risk? This is the question that Stephanie Finch, the town cler



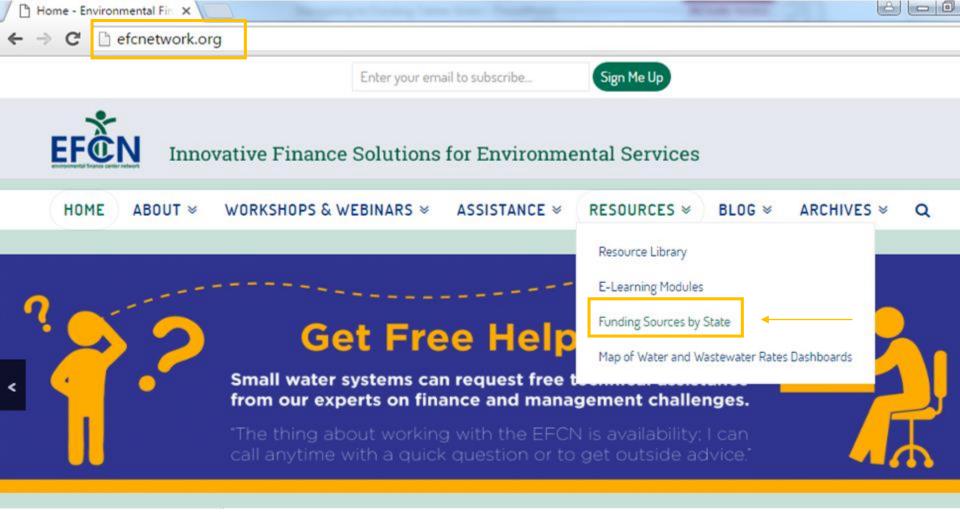
The Virtuous Cycle: Internal Energy Revolving Funds for Small Water Systems

Written by: David Tucker David Tucker is a Project Director with the Environmental Finance Center at pay for energy efficiency and renewable energy, helping cut utility costs? As energy is often the large



Smart Management for Small Water Systems Program Newsletter | Fall 2015

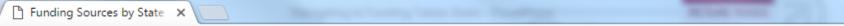
View Full Issue The Environmental Finance Center Network has published the third issue in a series



Navigating to Funding Tables

Step 1: efcnetwork.org

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





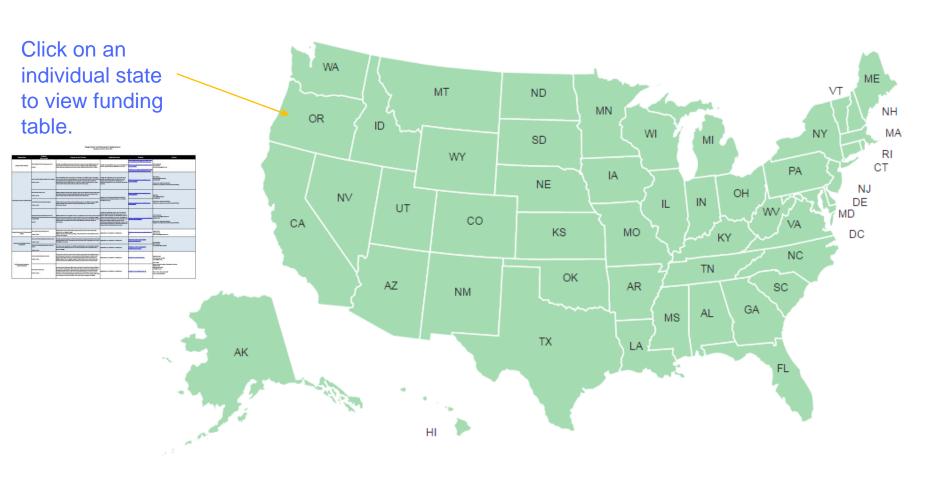


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Funding Sources by State

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

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



A Favor & A Reminder

 Please fill out an eval form for us before you leave

 Contact us anytime for direct technical assistance on any finance and management topic of our project

Thank you!

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