

DEPARTMENT OF COMMERCE, COMMUNITY AND ECONOMIC DEVELOPMENT Division of Community and Regional Affairs

Rate Setting

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Introduction: Topics Covered

Introduction to Local Government Assistance & RUBA

Why is Financial Stability Important?

How can Utility Operators Help?

Rate Setting

Rate Setting Scenarios



LGA/RUBA Program



Local Government Specialists





LGA/RUBA Program

LGA

- Elections
- Title 29 Compliance
- Financial Management
- Bulk Fuel Management & Power Cost Equalization
- Personnel Management

RUBA

- Advice & technical assistance to rural utilities
- Best Practices scoring
- Utility Management Trainings

And Much More!



LGA/RUBA Program

Local Government Resource Desk:

https://www.commerce.alaska.gov/web/dcra/

LocalGovernmentResourceDesk.aspx

Resources & Information

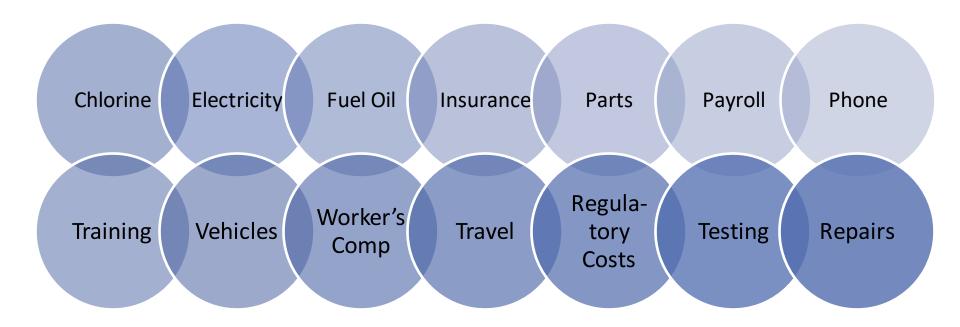
Find your Local Government Specialist

What is Financial Sustainability?



Why is Financial Sustainability Important?

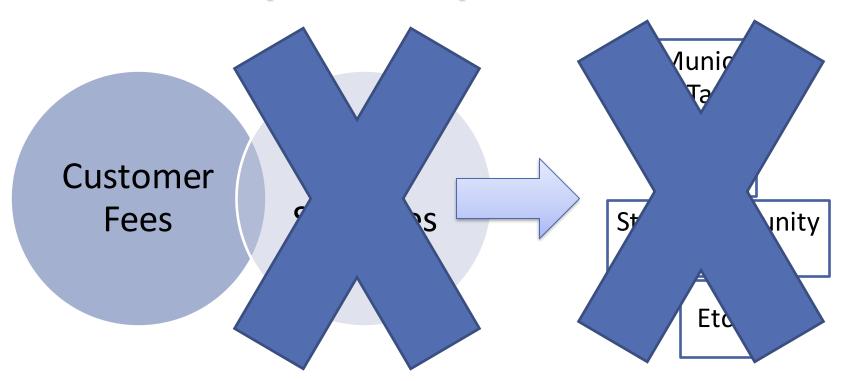
Expenses = Cost of Service





Why is Financial Sustainability Important?

Revenue = How you Pay for Service





How Can Utility Operators Help?

Reduce Expenses

Improve Collections

Rate Setting

Reduce Expenses

- Activities
- Purchases
- Policies



How Can Utility Operators Help?



Improve Collections

 Do your customers actually pay their bills?

How Can Utility Operators Help?

- Utility Ordinances
- Collection Policy
- Bundling Services
- Delinquency Notices
- Fines, Penalties, Interest
- Payment Plans
- Liens
- Small Claims Court



How Can Utility Operators Help?

Rate Setting

- The process of determining how much a customer should pay for a service in order to cover all expenses of the utility.
- Figure out your expenses.
- Figure out your revenues.

- How much do you charge?
- How much should you charge?
- What happens if customers don't pay?
- Change your rates?

Rate Setting Factors

- Utility expenses
- Collection rate
- Number of customers
- Types of customers
- Amount of water used
- Meters (if any)





Where does rate setting information come from?







New utility

Existing utility

Expanding utility

Uniform Flat Rate

- Same each month for everyone
- No meter expense
- Billing is easy
- Not equitable
- High consumption

- Single Block Rate
- Increasing Block Rate
- Decreasing Block Rate



1. Determine Bill Collection Rate

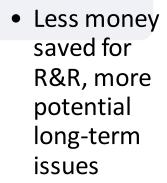


1. Determine Bill Collection Rate

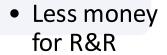


Collection Rate

75%?



50%?



 Less money for basic repairs, even MORE potential for long-term issues 25%?

- Less money for R&R
- Less money for basic repairs
- Can't pay salaries on time
- What else?

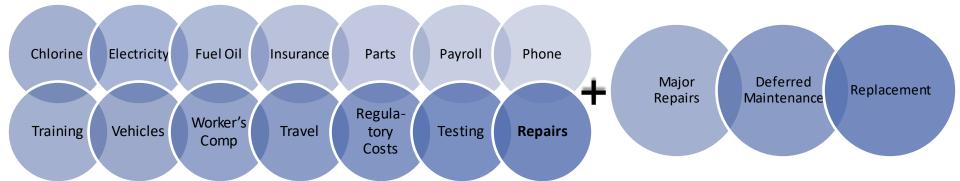


Rate Setting

2. Determine Annual Cost of Service

Operations & Maintenance

Repair & Replacement



Annual expenses

Longer-term expenses

3. Determine usage by customer classification

- Meter readings
- Customer classifications

Total water produced – water used by customers = Calculated Line Loss



Customer Classes









Residential

Commercial

School

Community



$$R = \frac{\binom{\$240,800}{75\%}(56\%)}{12} \div 200$$

R = monthly flat rate per customer

COS = cost of service

CR = collection rate

%U = percent used by class



$$R = \frac{(\$3499976(060\%))}{12} - 200$$

R = monthly flat rate per customer

COS = cost of service

CR = collection rate

%U = percent used by class



$$R = \$73\$8367 + 200$$

R = monthly flat rate per customer

COS = cost of service

CR = collection rate

%U = percent used by class



$$R = \frac{(\$34000)(060\%)}{12} - 200$$

R = monthly flat rate per customer

COS = cost of service

CR = collection rate

%U = percent used by class





\$23,560

-200

R = monthly flat rate per customer

COS = cost of service

CR = collection rate

%U = percent used by class



Collection Rates Matter!

Collection Rate	Customer Monthly Rate
40%	\$137.50
75%	\$73.33
100%	\$55.00



Block Rates

Monthly <u>Base Rate</u>
 Fixed Costs

• Flow Rate (per gallon or block)

Variable Costs





Computing Block Rates

Monthly Base Rate:

Fixed Cost + Customers + 12 mo.

Flow Rate:

Variable Costs + Gallons Produced



Guiding Principles

- Utilities should be self-supporting
- Rates should help build reserves
- Rates should not be permanent
- Inform and involve the public



When to Review Rates?

Annually

Anticipate Changes

Adjust as Needed





Rate Setting Scenario 1

1. Last year, Moose Creek billed \$81,600 but only received \$69,360.

What is the collection Rate?

\$69,360 ÷ \$81,600 = _85_% collection rate

2. Since the collection rate is less than 100%, Moose Creek must bill more than \$81,600 in order to receive that amount.

What is the total annual amount to be billed?

\$81,600 annual cost ÷ 85% = \$96,000 annual amount to be billed

3. What is the monthly rate per residential unit? $(\$96,000 \div 100 \text{ customers}) \div 12 \text{ months} = \frac{\$80.00}{100}$

Step 1. Determine the collection rate.

Last year, the utility provided service to 55 residential customers, a school, and a washeteria. It billed \$43,000 and received \$38,500.

What is the collection rate (round to nearest %)? 38.500/43.000 = .895 or 90%

Step 2. Determine the cost of service.

Current operating expenses are \$44,500. The utility needs to establish an account for reserves with funding at \$5,000 per year.

What is the cost of service? \$44,500 + \$5,000 = \$49,500

What gross revenue amount should be used to calculate rates? \$49.500 / .90 = \$55.000

Step 3. Determine usage by customer classification.

Total water produced was 3,500,000 gallons. According to meter readings, the school used 70,000 gallons and the washeteria used 105,000 gallons.

How many gallons were used by residential customers?

3,500,000 - (70,000 + 105,000) = 3,325,000

What percentage of the total did each class use?

School: 70,000 / 3,500,000 = 2%

Washeteria: 105,000 / 3,500,000 = 3%

Residents: 3,325,000/3,500,000 = 95%

Step 4. Divide total cost between customers.

How much is to be charged annually to the:

School? <u>55,000 X .02 = \$1,100</u>

Washeteria? $55,000 \times .03 = $1,650$

Residents? $55,000 \times .95 = $52,250$

- Gross revenue amount used to calculate rates: \$55,000
- School usage: 2%
- Washeteria usage: 3%
- Resident usage: 95%

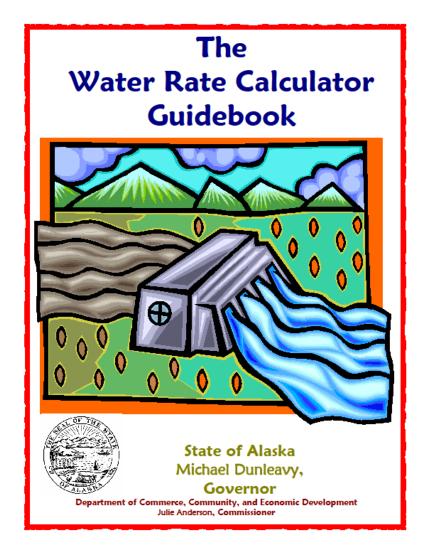
Step 5. Determine new monthly uniform flat rates.

New rate for the school: $\frac{$1,100/12 = $91.67}{}$

New rate for the washeteria: $\frac{$1,650 / 12 = $137.50}{}$

New rate for residents: $\frac{$52,250 / 55 \text{ households}}{$52,250 / 55 \text{ households}} = \frac{$950 / \text{yr}}{$12 = $79.17}$

With a collection rate of 90%, how much annual revenue will the utility receive? $\frac{$1,100 + $1,650 + $52,250 = $55,000 \times .90 = $49,500}{}$





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Rural Utility Business Advisors (RUBA) <u>Contact Information:</u>

(907) 545-5383

Sengbe.Kemokai@Alaska.Gov

Local Government Assistance (LGA) Resource Desk <u>Contact Information:</u>

(907) 269-8122

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