

ASSOCIATION OF WASHINGTON CITIES

Utility Rate Setting Basics for Newly Elected Officials

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General Government Financial Analysis



**4,000+** PROJECTS

650+
PUBLIC CLIENTS

35 MANAGEMENT AND ECHNICAL PROFESSIONALS

> 36 EARS IN OPERATION

4 DFFICES IN WASHINGTON, COLORADO, AND OREGON

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### **Getting Things Started**



Please scan the QR link to the left to complete a short, interactive survey



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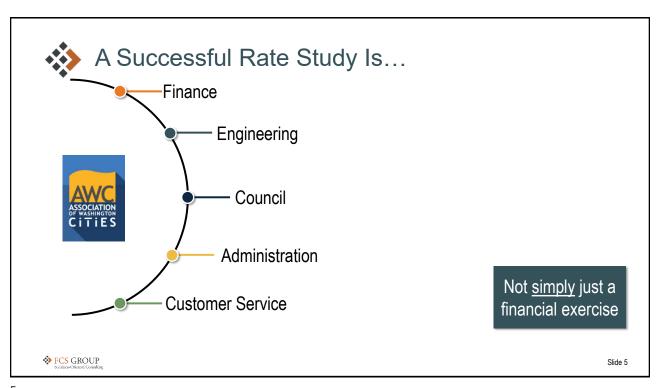
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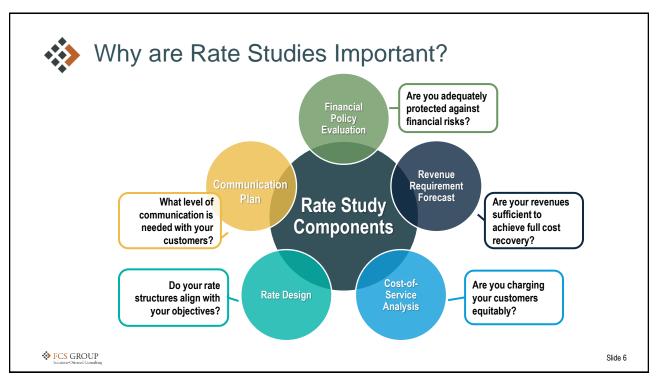


### Agenda

- What is a rate study? Why do we do it? Why is it important?
- Components of a Rate Study:
  - » Financial Policies: Framework for success
  - » Revenue Requirement: Defining overall needs
  - » Cost of Service: Equity evaluation
  - » Rate Design: Collecting the target revenue
- Questions / Discussion









#### Rate Study Purposes



Maintain the long-term health and integrity of utility systems



Quantify policies, priorities, and initiatives



Tell the "true" cost of providing service



Track cost information



Evaluate equity between customer groups



Communicate financial decisions and their impact



Management tool



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### **Understanding Sensitivities and Priorities**

- Understanding priority of management sets the stage for your rate study
- Policies, strategies and rate structures can be developed or refined to align with priorities



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#### **Financial Policies**

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# Are you Adequately Mitigating Risks?

- Financial policies serve to:
  - » Promote financial stability
  - » Improve ability to weather financial disruptions
  - » Establish foundation for consistent financial / rate decisions
  - » Help stabilize rates over time

Formally adopted documented financial policies are ideal!

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### Role of Financial Policies

#### Performance & Budgeting

How well are we financially performing compared to our standards and goals?

#### **Decision Framework**

Do our financial and rate decisions align with our strategic goals, public priorities, and utility obligations?

#### **Contingency Planning**

Are we financially prepared to respond to disruptions (e.g., natural disaster, economic downturn, equipment failure)?

#### **Communication Tool**

Do our financial policies provide documentation of our management philosophy to customers and stakeholders?

Documentation of Policies is Ideal!



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### Choosing your Financial Policies

	Purpose	Target
Operating Reserve	Liquidity cushion to accommodate cyclical cash flow fluctuations	Water = 90; Sewer = 45-90 Storm/Solid Waste = 30 Days O&M
Capital Contingency Reserve	To meet emergency repairs, unanticipated capital, and project cost overruns	1% - 2% of Original Cost Asset Values
Capital Replacement Funding	Annual contribution from rate revenue toward the accumulating replacement liability - utility infrastructure	Annual Depreciation Expense; Replacement Cost Depreciation
Equipment Reserve Funding	To fund ongoing vehicle and equipment replacement	Based on estimated replacement value
Debt Service Coverage	Compliance with existing debt covenants and maintain credit worthiness for future debt needs.	Target 2.0 or higher; Minimum Requirement 1.25
Rate Setting	Multi-year financial plan	2-6 years for rate-setting, 20-yr Comp plans
Revenue Sufficiency	Set rates to meet the total annual financial obligations of the utility and be self supporting	Rates shall be set to cover O&M, debt service, replacement reserves and fiscal policy achievement





#### **Revenue Requirement**

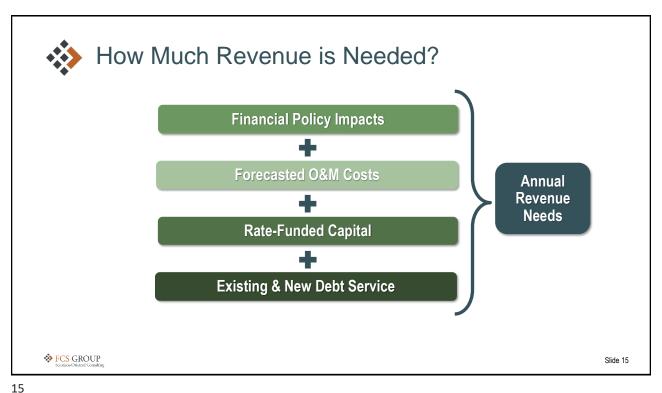
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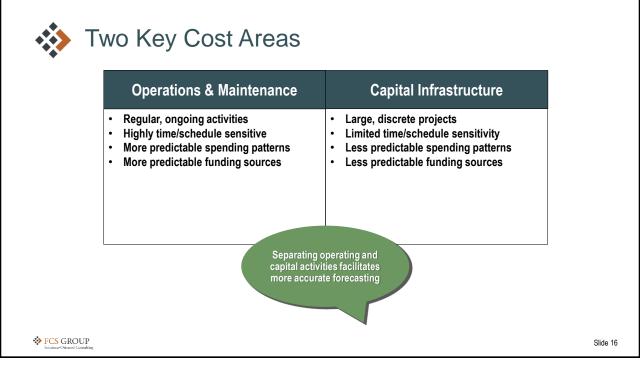


### Overview of Revenue Requirement

- Determines the amount of annual revenue necessary to meet all utility financial obligations
- Evaluates sufficiency of current rates on a standalone basis
- Develops annual rate adjustment strategy
  - » Multi-year financial plan
- Establish revenue requirement objective
  - » Full cost recovery?
  - » Phase-in rate adjustments over time?
  - » Subsidy from General Fund?

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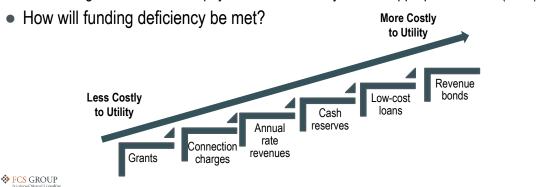






#### **Capital Funding Considerations**

- Understanding nature of capital projects can determine if funding should be cash, debt or a combination
  - » Debt financing spreads costs between existing and future ratepayers
  - » Existing customers should pay for assets currently in use appropriate to rate (cash) fund



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#### Capital Funding Philosophy

Cash (pay-as-you-go)

- Higher near-term rates
- · Existing customers pay 100% of initial costs

**Debt Financing** 

- Lowest near-term rates
- · Mitigates immediate rate impacts of costly capital
- · More closely matches costs to useful life of asset
- Spreads costs between existing and future ratepayers
- · Debt capacity may be an issue

Hybrid

- Define a reasonable basis for cash/rate funding (R&R projects?)
- Evaluate need for debt (large, long-life projects)
- · Aligns funding with nature of capital project

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# **Utility Asset Management**

- Utilities must build, maintain, and replace infrastructure
- Long lived assets require long-term management
  - » Operational management: condition assessments & maintenance
  - » Financial management: saving money for repair and replacement







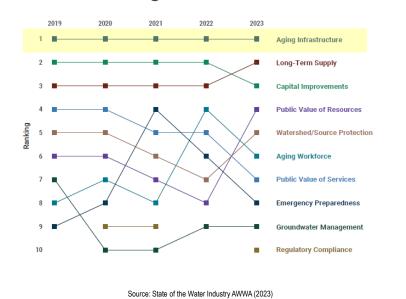


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#### Top 10 Issues Facing the Water Sector, 2019–2023



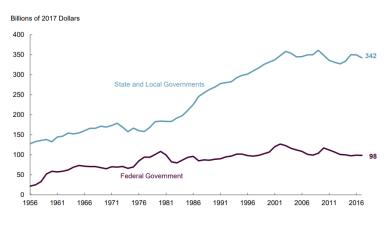
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### Local Government Infrastructure Spending

### Public Spending on Transportation and Water Infrastructure, by Level of Government, 1956 to 2017



State/local spending on water infrastructure is outpacing federal support

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Source: Congressional Budget Office (2022)

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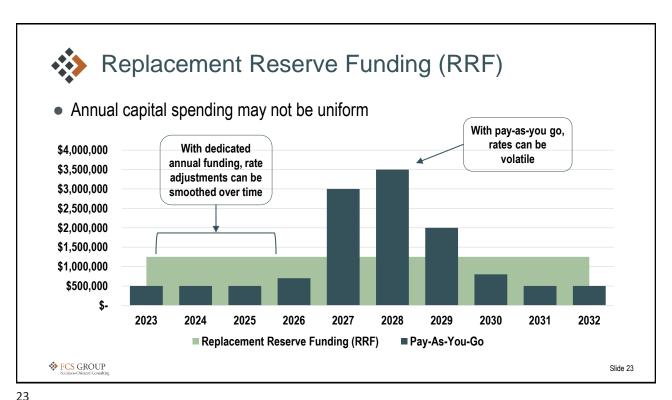
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### Replacement Funding – How Much?

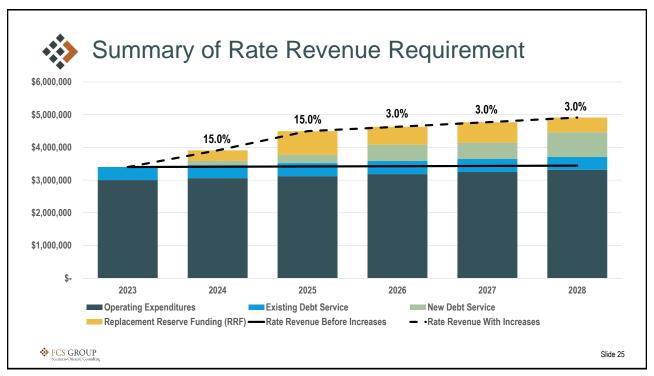
- Is asset inventory available?
- Do you know original cost of assets?
  - » If answer is no, you can still move ahead!
- Gather staff resources and historical documents to begin the process of creating system value
  - » Critical information for understanding replacement funding needs and setting system connection charges

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#### Revenue Considerations **Revenue Considerations** Review historical trends Anticipate growth (but be conservative) Rate Revenue Annexation / service area expansion New, large customer Miscellaneous fees Other Revenue One time or recurring Increase w/ customer growth or flat Not an on-going resource **Cash Balance** Can mask revenue shortfalls ❖ FCS GROUP Slide 24





### Decision Point for Utility - Can We Stop Here?

- Yes, if:
  - » Uniform customer base (e.g., single-family residential)
  - » Satisfied with current class equity
  - » Current rate structure adequately meets goals
- Then:
  - » Simply apply indicated rate increases across the board to existing rate structure

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**Cost of Service** 

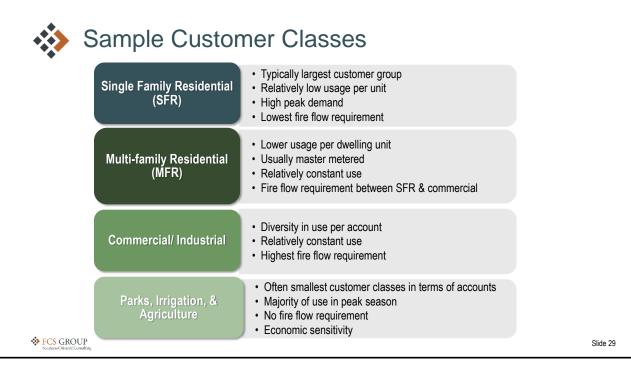
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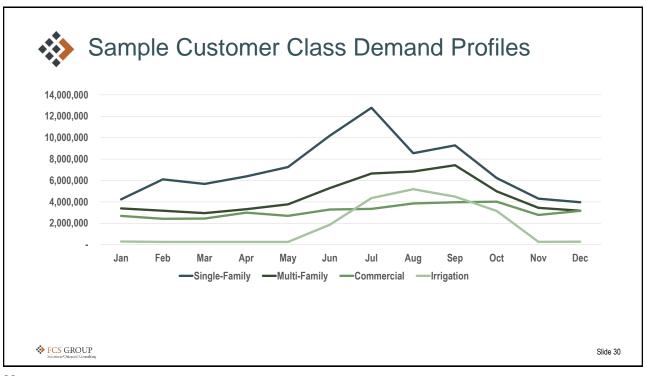


#### Cost of Service = Cost Equity Evaluation

- Policy objective: Equitable and rational distribution of cost to customer groups or classes. Distribution determined by:
  - » Industry standard methodologies
  - » Unique usage characteristics (use and demand)
  - » Unique facility requirements (planning and design criteria)
- Total cost by class (equity)
- Unit costs (\$/usage; \$/customer)
- Determines the cost difference to serve different customer classes of service

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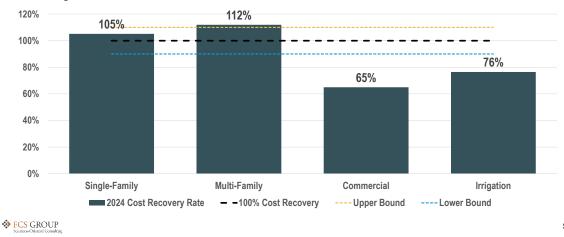






# Determining Your Customer Class Cost Shares

 Cost-of-service analysis identifies how costs should be equitably distributed among customer classes

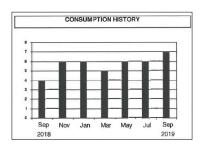






#### Overview of Rate Design

- Policy Objective:
  - » Creation of rate structures that recover the target level of revenue
  - » Primary communication with customers
  - » Composed of fixed and/or variable charges
  - » Considers industry trends and current pricing goals



DESCRIPTION	AMOUNT
PREVIOUS BALANCE	59.95
PAYMENTS	-59.95
PAST DUE BALANCE	0.00
BASE CHARGE	55.85
CONSUMPTION	6.60
SUMMERSURCHARGE	1.60
TOTAL NEW CHARGE	64.05

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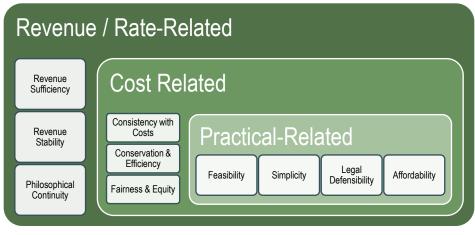
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#### Rate Setting Goals

• No structure can completely achieve all the objectives – it's a balancing act



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Source: Principles of Public Utility Rates, Bonbright, Danielson and Kamerschen

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#### Fixed and Volume Rate Recovery

#### **Fixed Charges**

#### Addresses revenue stability

- Imposed on each meter, account, or ERU
- Do not vary with the amount of use
- Provides a predictable source of revenue

#### **Volume Charges**

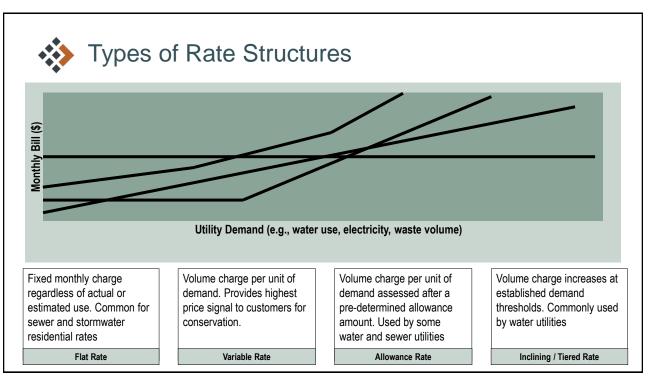
#### Addresses equity & conservation

- Imposed on each unit (ccf or 1,000 gallons) of use/flow
- Recover a greater share of revenue from customers who place the greatest demand on the system
- Encourage conservation and efficiency in use
- Introduces additional revenue volatility and seasonality

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# Parting Thoughts: A Tale of Two Utilities



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# Parting Thoughts: A Tale of Two Utilities



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Source: Kitsap County

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# Thank you! Questions?

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