# Developing Strategies for Financial Resiliency in Uncertain Times

**CSMFO** 

2023 Conference

February 2, 2023



## Agenda

- The Nature of the Water Sector
- Understand your Risk
- Develop a Financial Resiliency Plan
- Communicate your Needs to Stakeholders

#### Water Cost Structure

#### **FIXED**

- Does not vary with production
- Salaries, debt service, etc.

#### **VARIABLE**

- Varies with water production
- Power, chemicals, etc.

#### Water Cost Structure

#### **Fixed Costs are High**



**80** To **95%** of total annual costs

#### **Variable Costs are Low**



**5** To **20%** of total annual costs

Oct 19, 2022

## Financial Requirements of Reinvestment of Infrastructure

- Water Service is one of the most capital-intensive product
- Asset life varies between 20 to 100 years
- Many assets are buried underground, hard to see, hard to access
- Asset registry lists tend to be outdated
- Many agencies' assets are at the end of their useful life

Creates a ticking time bomb of liability – as we don't know when an asset will fail unless a detailed asset management study is completed

## Political Nature of Increasing Rates

- The adoption of water rates are typically approved by an elected body
  - This creates a political dimension associated with rate adoption
- Since water are an essential service, affordability plays a major role
- Elected officials typically want:
  - Affordability
  - Rate stability
  - Address economic concerns
  - Environmental stewardship

#### Revenue Structure

- To ease the political pressure, most agencies' rate structures tend to have:
  - High variable and low fixed revenue for residential customers
    - Variable revenue based on metered water consumption
- Achieves the goal of general affordability but at the expense of revenue instability

#### Summary of Water Service

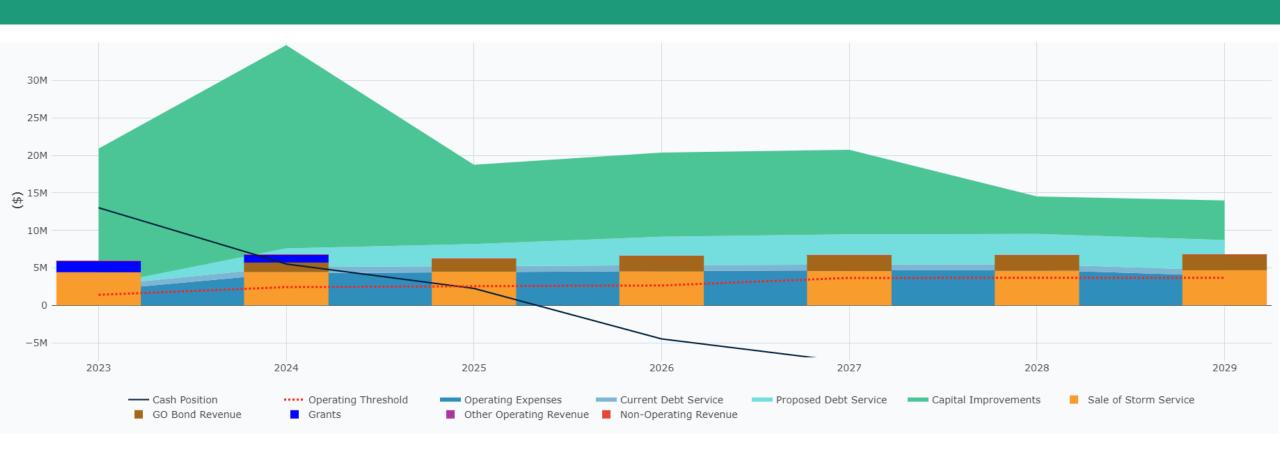
- High fixed cost business
- Capital intensive with most assets at the end of their useful life and unknown liability associated with future ability to provide service
- Rates are highly political to adopt with the key concern being affordability
- Revenues based primarily on variable consumption creates instability

These factors combine to create financial risk!

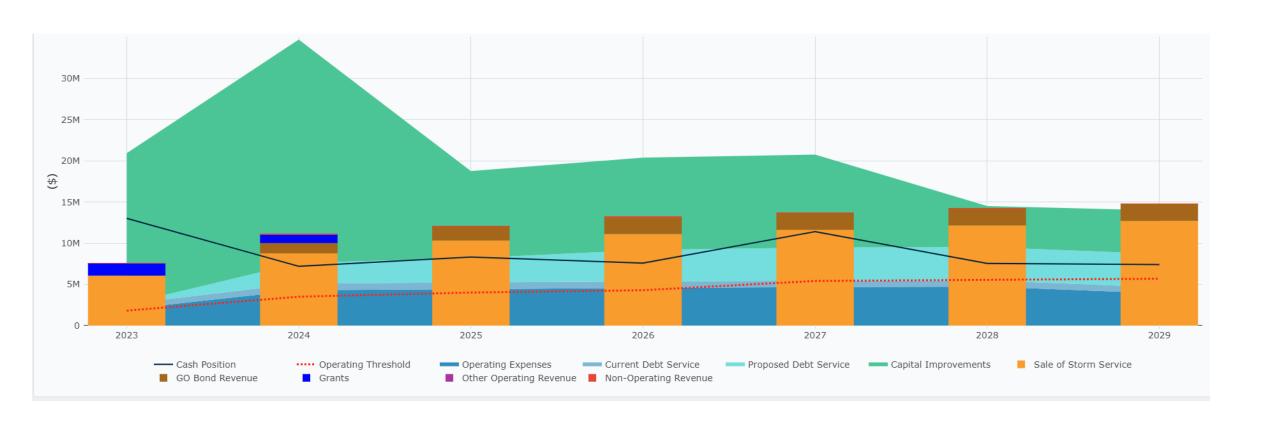
#### Steps to Develop Financial Resiliency

- Understand the risk you face
  - Financial model where cost and revenue structures are mirrored
  - "What if" scenarios can be examined
  - Book end analysis is recommended
- Develop mitigation strategies
  - Reserves
  - Understand core water sales
  - Development of emergency surcharge rates
  - Increase the fixed revenue streams
- Communicate your challenges and strategies to stakeholders
  - Be sure to allocate ample time and energy to this challenging component

## Visual Graphics are Important



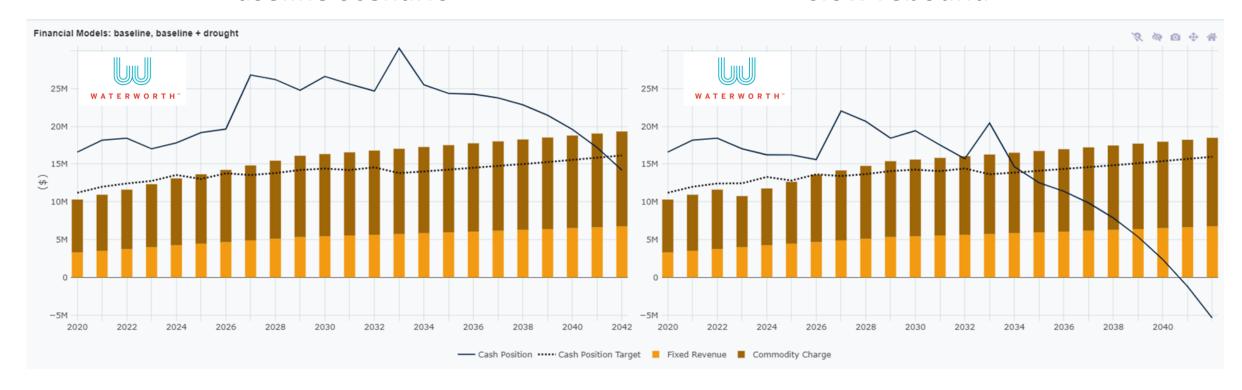
## Graphics Help Communicate your Plan



#### Financial Models: Tools to Understand Uncertainty

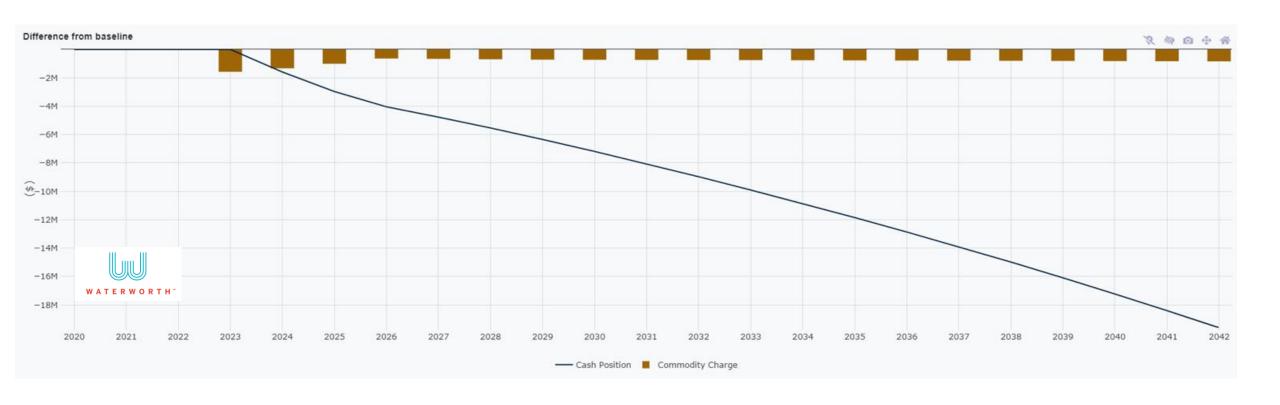
#### **Baseline Scenario**

## 20% Reduction in Demand in 2023: slow rebound



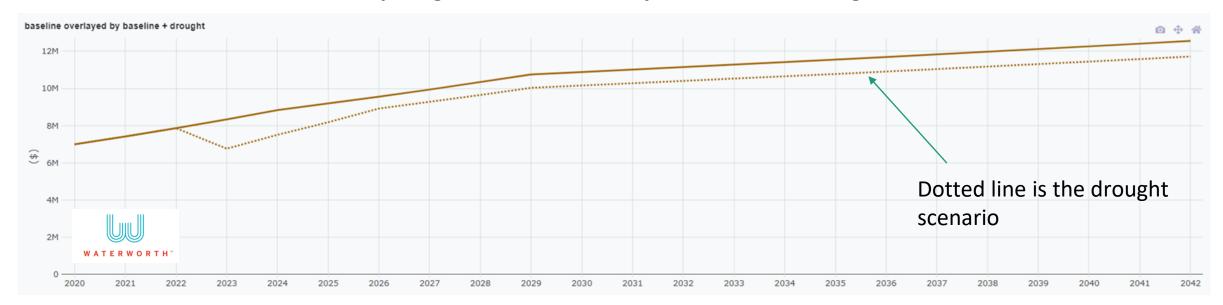
Oct 19, 2022

#### Comparison of Revenues and Ending Cash Balance

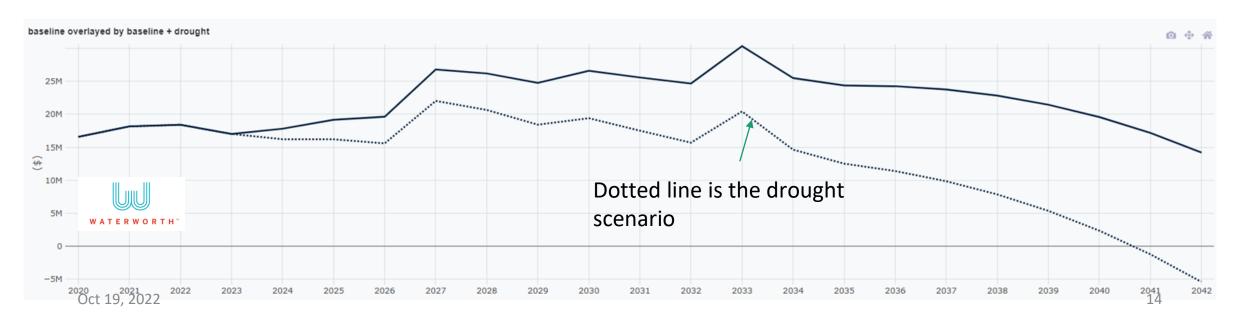


Oct 19, 2022

#### **Comparing Baseline Commodity Revenue with Drought Scenario**

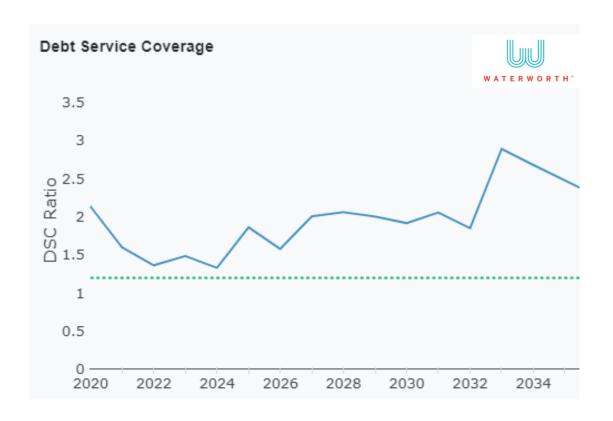


#### **Comparing Baseline Cash Position with Drought Scenario**

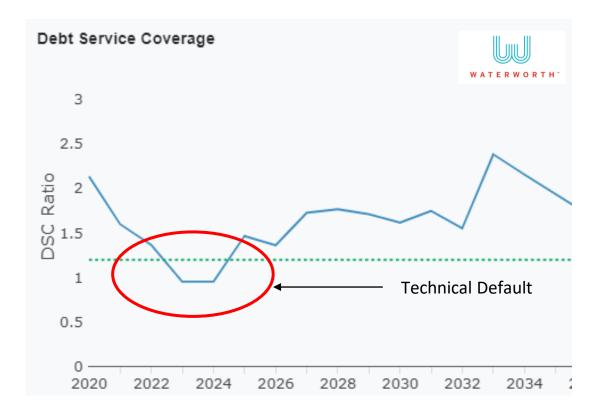


# Pay Close Attention to your Debt Service Coverage Ratio

#### **Baseline Scenario**



#### **Drought Scenario**



Oct 19, 2022 15

## Financial Health Indicators

#### **Healthy Reserves**

- Operating Reserve results from positive cash flow
  - Cash flow approach: Examine the timing of revenues and expenses
  - Benchmarks: % of operating expense or days of O&M (0-180 days)
- CIP Reserves Can award contracts quickly and speed up projects if necessary
  - 2-3% of fixed assets or net book value; or
  - Based on years of capital projects or depreciation expense
- Rate Stabilization funds used during periods of revenue shortages
  - Such as a drought
  - Can use probability analysis to determine reserve levels
- Emergency funds available in case of asset failure
  - Critical asset replacement analysis used to set reserve level

## Financial Health Indicators

#### **Debt Service Coverage Ratio**

- Examines the cash flow of net income
   (Revenues O&M Expense) / Debt service
  - Coverage Ratio target range from 1.1x to 1.5x
  - Some agencies target above the Official Statement requirements
    - Example: 2.0X
    - Assist in providing cash to fund either CIP projects or reserves

## Fixed Cost Recovered on the Core Sale of Water

- Determine reliable water sales by customer class
  - Multiple methods available: efficiency standards, sustainable use or conservation goals
- Develop rates based on these reliable sales

## Emergency Rates

- Temporary surcharge rates put in place under emergency circumstances
  - Drought
  - COVID / global pandemic
  - Natural disaster
- Tie emergency rates with water supply contingency plan and the associated stages
  - Each stage would have its own surcharge
- Good tool to have in the toolbox given constraints of Prop 218
- Challenging Message: During a crisis we are increasing rates

# Strategy to Develop Fixed Sources of Revenue

- Water agencies typically have three major cost:
  - Capital needs
  - Operating cost
  - Water Supply Programs, which includes purchase, development of new sources and conservation programs
- Financial Utopia
  - Capital needs are fixed source of revenue, such as on the property roll
  - Operating cost is covered on the fixed meter charge
  - Water supply programs are covered on the commodity charge

Oct 19, 2022

### Challenge with Rate Utopia

- Rate Utopia will create winners and losers
  - Rate shock to certain customers
- How do we deal with affordability concerns?
- As we shift towards more fixed revenues the commodity rate will go down
  - Messaging challenge as we go in and out of drought conditions and promoting water stewardship

Potential solution: Transition towards having capital charge on the property roll.

Do incremental increase that equals the additional revenue needed

Cost of service study is required

Oct 19, 2022 21

# Garnering Support from Stakeholders

- This takes longer than you think
- Identify your Stakeholders
  - Board Members
  - Business owners / Advocacy group
  - If possible, provide lunch
- Start communicating your needs ASAP
- Be visible and vocal in your community
  - Do site visits
- Develop a financial model that shows visual impact



#### Thank You!

Sanjay Gaur
Principal Consultant
Water Resources Economics
sgaur@water-economics.com

## Financial Resiliency

Strategies at Las Virgenes Municipal Water District

Presented by: Donald Patterson, Director of Finance & Administration



#### District Overview

- Provide Potable Water, Recycled Water, and Sanitation Services to unincorporated western Los Angeles County and the cities of Agoura Hills, Calabasas, Hidden Hills, and Westlake Village.
- Serve approximately 70,000.
- 100% dependent on imported water.
- \$60 million/year operating budget
- 125 positions.



## District Challenges

- Infrastructure Funding
- Addressing Reduced Water Sales
- Labor Demands
- Unfunded Liabilities



## Tools for Financial Resiliency

- Reserve Policy
- Increased Financial Certainty
- Annual Passthrough of Wholesale Water Cost
- Pay Go philosophy
- Financial Modeling



## Tools for Financial Resiliency

- Budget Based Rates
  - Focus on "Water efficiency as a way of life."
  - Ensures lowest cost water is provided for efficient indoor use.
  - Continuously provides a price signal for inefficient and wasteful use.
  - Prioritizes aridification and climate change vs. "drought"



## Other Strategies

- Established OPEB Trust
- Focus on Reducing Future Liabilities
- Increased percentage of fixed cost recovered through fixed fees



## Thank You



#### Alameda County Water District

# Financial Resiliency Strategies at Alameda County Water District

Presenter: Jonathan Wunderlich, Director of Finance & Administration





#### Overview

#### **Alameda County Water District**

- Special District providing water service to the cities of Fremont, Newark, and Union City in the East Bay
- Serve about 345,000 people through 87,000 connections
- Budgeted expenditures of \$175.8 million in FYE 23
  - 244 full-time employees
- Water supplies include local watershed runoff in Alameda Creek (40%), State Water Project (40%), and San Francisco Regional Water System (20%)
- Independent rate-setting authority within the framework of Proposition 218





#### Overview

## Alignment of Financial Mechanisms with Broader Organizational Objectives/Policies

- Financial policies should be developed in consideration with broader objectives. For example, for ACWD:
  - It is ACWD's mission to provide a reliable supply of water at a reasonable price
  - A current Board priority is affordability and that goes beyond our program for the lowest income customers
  - Our Strategic Plan identifies five key organizational goals

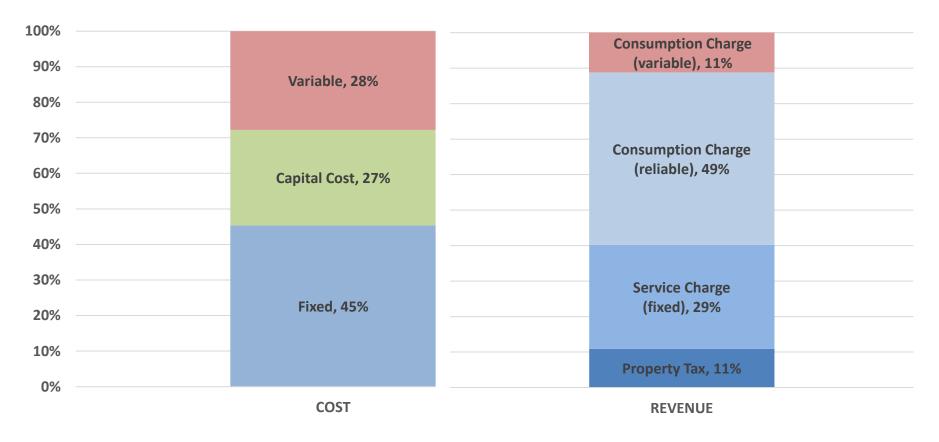


#### Overview

- Alameda County Water District has implemented the following strategies to maintain financial stability in the face of uncertainty:
  - Adequate revenue recovery from fixed and 'reliable' sources as compared to our cost structure
  - Special drought rates to provide revenue stability
  - Robust reserve targets
  - Minimal reliance on development activity
  - Conservative financial forecasts
  - Limiting long-term obligations
- All strategies have been discussed with our Board and have their support



## Revenue Recovery Cost and Revenue Structure - FY 2021/22



\*Consumption at the level of our lowest year is considered reliable





#### **Drought Rates**

- Droughts are a major cause of uncertainty for the District:
  - Revenue will go down
  - Costs to secure water supply may increase
  - May not be practical to defer capital projects or implement other cost reductions
- The District implemented drought surcharges effective March 1, 2022 to achieve revenue stability/neutrality
  - Charged based on water consumption promotes conservation
  - Customers who conserve the requested amount will see their water bill stay about the same
  - Structured so the amount goes up/down if the drought situation changes (with 30-day customer notification for increases). Full table included in Proposition 218 customer notice





#### **Drought Rates**

- Implemented a fixed charge increase at the same time as the Drought Rates in 2022
  - Received 68 online protests: 47 due to the service charge increase; 16 due to the drought rates; and 5 for 'Other' reasons

	Scenario					
	No Drought		Drought w/		Drought w/o	
			Conservation		conservation	
Consumption (HCF*)	16		13.6		16	
Service Charge	\$	58.94	\$	58.94	\$	58.94
<b>Consumption Charges</b>	\$	73.54	\$	62.51	\$	73.54
<b>Drought Surcharge</b>	\$	-	\$	10.70	\$	12.59
Total	\$	132.48	\$	132.15	\$	145.07
*HCF is 100 cubic feet or about 748 gallons						

<sup>\*</sup>The District bills bimonthly and 16 HCF is typical residential consumption





## Financial Resiliency

**Questions?** 



