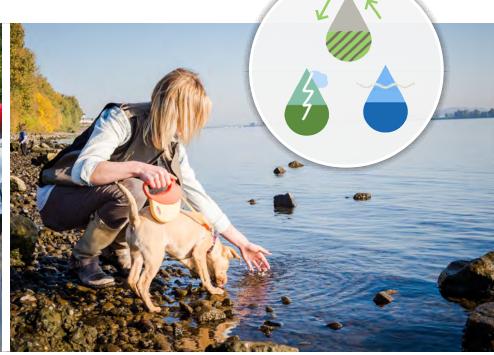
Water Resiliency Strategy







City of Vancouver Water Resiliency Strategy Capital Program and Financial Alternatives



Chris Malone, Finance and Asset Manager October 18, 2022

Presentation Agenda

- Vancouver's Integrated Water System
- Future capital needs
- Financial Levers/recommendations
- Impacts to customers
- Next steps



Using an integrated water approach, we protect our community, environment and infrastructure better.

Wastewater:

We collect and treat wastewater from residential, commercial, and industrial users so that clean water can be reintroduced to the environment.

6.9 billion gallons of treated wastewater

2 treatment facilities

785 miles of wastewater pipe

41 pump stations



Internated Water

Integrated Water Management

Stormwater:

We manage systems that control stormwater including flood control as well as provides solutions to restore area streams and the environment.

300+ miles of stormwater pipe 24,000+ catch basins 5,752 infiltration wells 2,800 treatment facilities 19% tree canopy

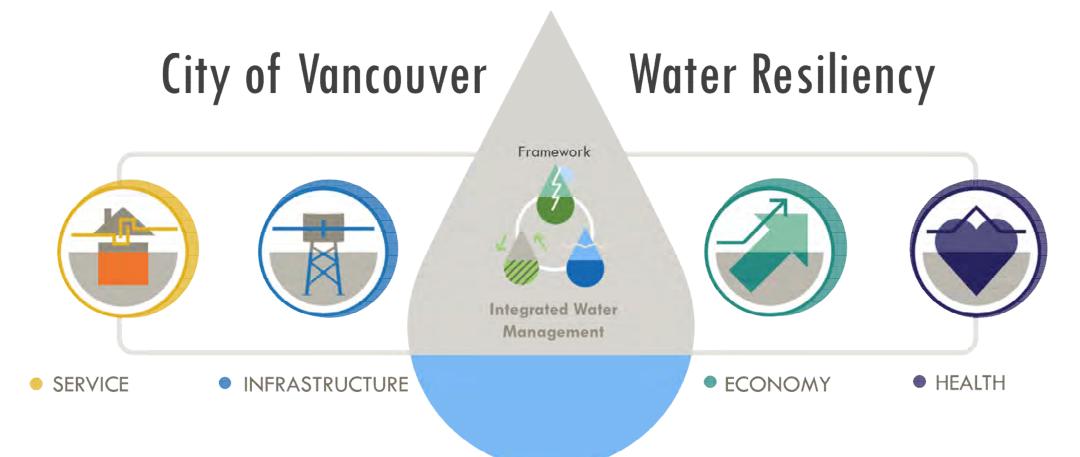
Drinking Water:

We provide high-quality and reliable drinking water and protect groundwater / aquifer water quality.

10.3 billion gallons of drinking water1 water stations1,090 miles of water pipe

Water Resiliency Framework

The Water Resiliency Framework establishes an integrated water management approach that helps us prioritize critical investments to achieve our resiliency and livability goals



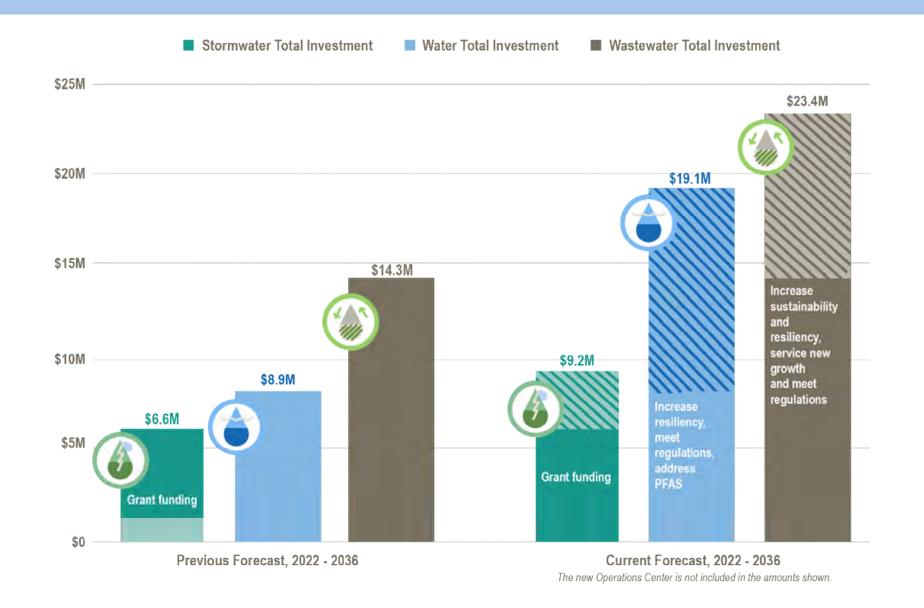
Reliable and Resilient Service

We must continue to **proactively address pressures** on our system:

- Population growth
- Aging infrastructure
- Climate change
- Public health
- Livability
- Regulatory changes



Previous vs. Current 15-Year CIP Forecast



Most Expensive Projects from 15-Year CIP

Project	Description	Benefits	Approx. Cost
New Operations Center Construction	 Replace existing seismically deficient and undersized operations center. 	Improve system resiliency and operational efficiency	\$125 million
PFAS Treatment (Drinking Water)	 Add treatment capacity for PFAS removal 	Safe drinking waterComply with EPA regulations	\$100 million
Solids Renewal (Westside WWTF)	 Construct solids processing tanks, digesters, and equipment Recover biogas for beneficial fuel use Dewater solids for beneficial use (e.g., fertilizer) 	 Replace aging infrastructure Save energy costs Comply with regulations Recover resources Improve air quality 	\$90 million
Marine Park WWTF Capacity Upgrade	 Add primary solids removal basins Add secondary treatment aeration basins and tanks 	Build future growth capacity	\$56.5 million

Key Projects from the 15-Year CIP

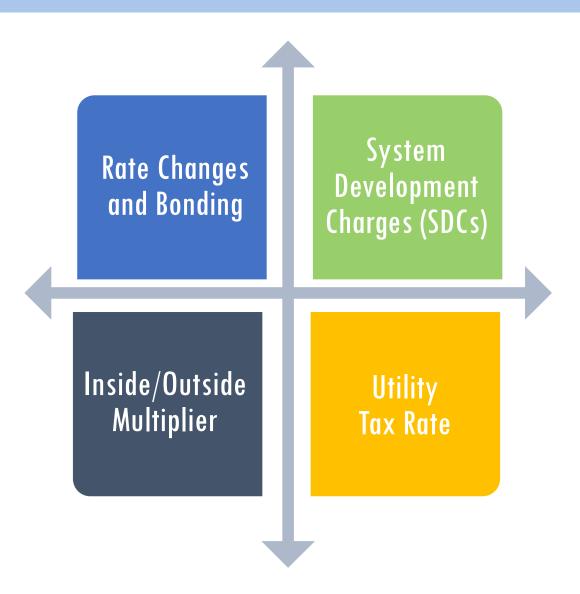


Capital Improvement Program Policies and Principles



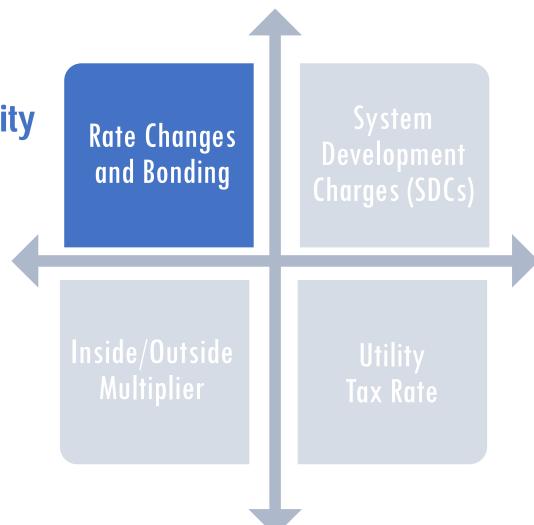
Financial Levers

Levers can be adjusted to meet investment needs and address changing conditions

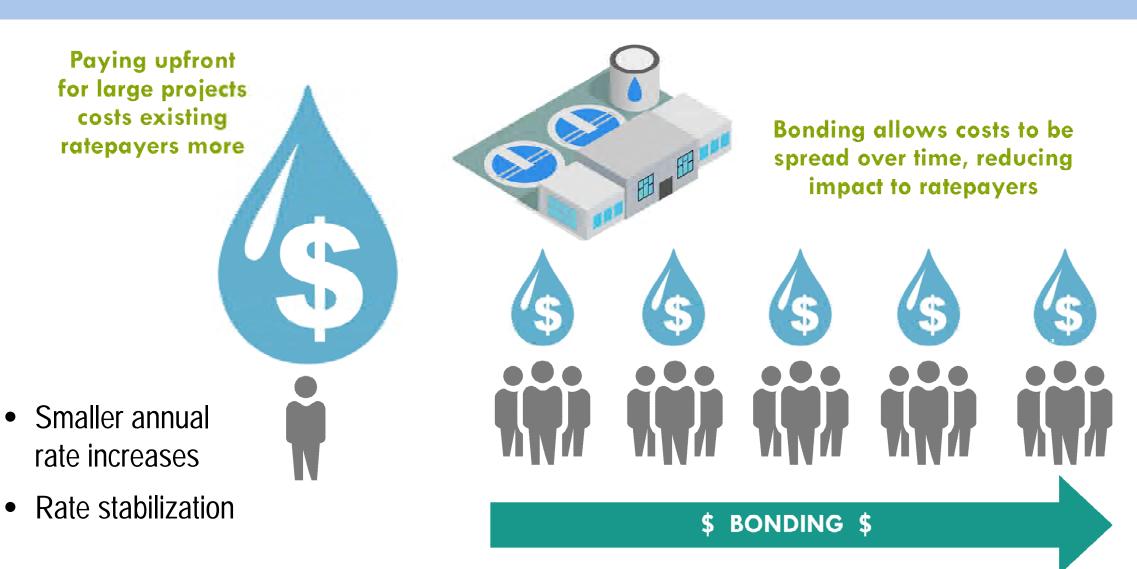


Opportunities with Rate Changes and Bonding

- ✓ Focus on affordability and equity
- ✓ Stabilize rate changes
- ✓ Reduce risk
- ✓ Improve capital investment timing
- ✓ Meet regulatory requirements

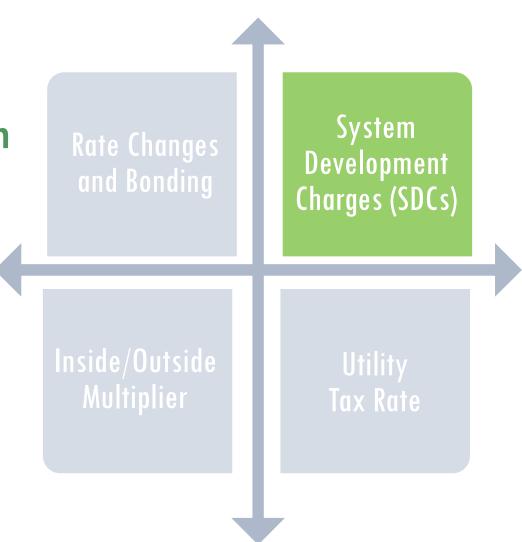


Bonding and Rates



Opportunities with System Development Charges (SDC's)

- ✓ Maintain competitiveness in region
- ✓ Effectively invest in our system to meet growth demands
- √ 10-years since prior update
- ✓ Improve equity of funding
- ✓ Stabilize rate changes

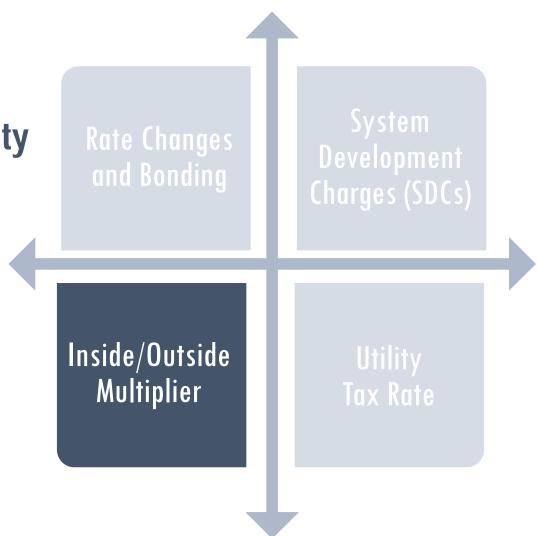


System Development Charges (SDCs)



Opportunities with Inside/Outside Multiplier

- ✓ Focus on affordability and equity
- ✓ Balance and manage annexation impacts
- ✓ Stabilize rate changes



Inside/Outside Multiplier - Background

Why is there a multiplier?

- Higher costs to serve customers outside city limits
- Annexation incentive for unincorporated areas
- Financial return for customers within city limits

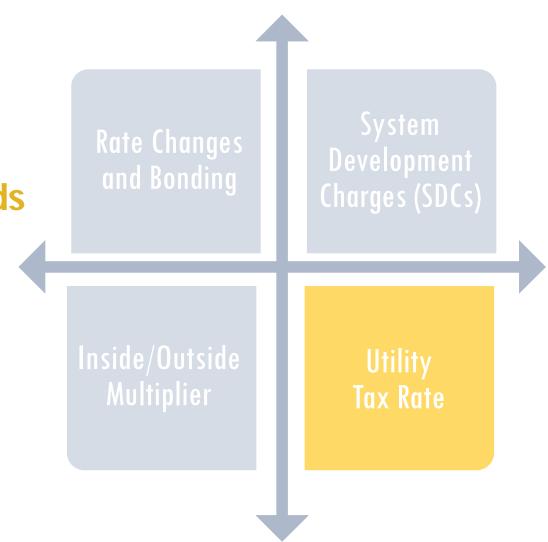
Risks/drawbacks of multipliers:

- Revenue loss with annexation
- Higher costs for utility customers outside city limits

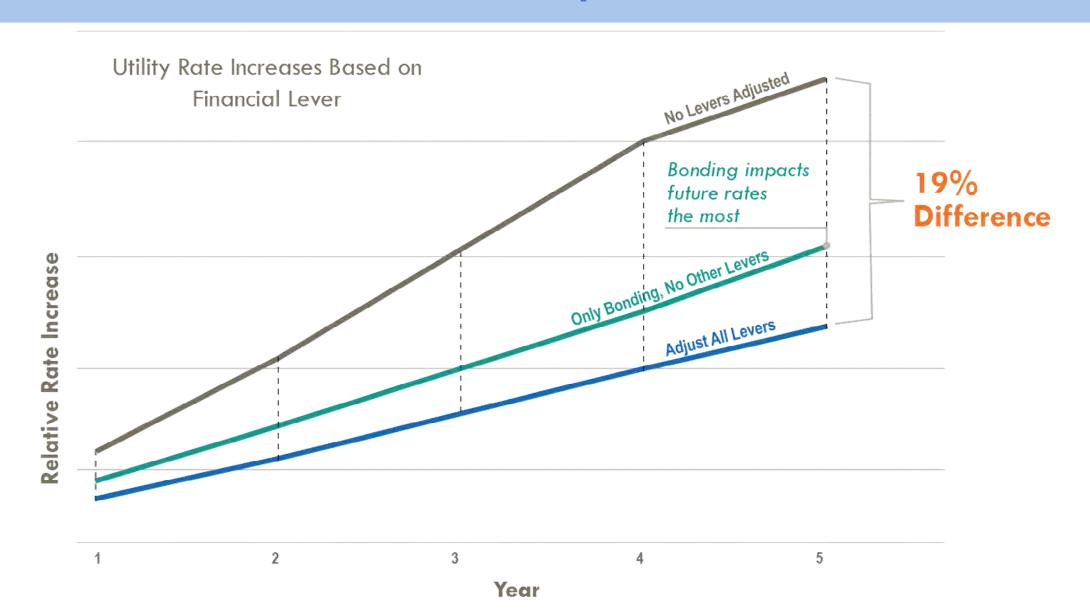


Opportunities with Utility Tax Rate

- ✓ Focus on affordability and equity
- ✓ De-couple tax from capital needs
- ✓ Stabilize rate changes
- **✓ Reduce financial risk**
- ✓ Provide stable funding to General Fund



Financial Levers: Overview and Impacts



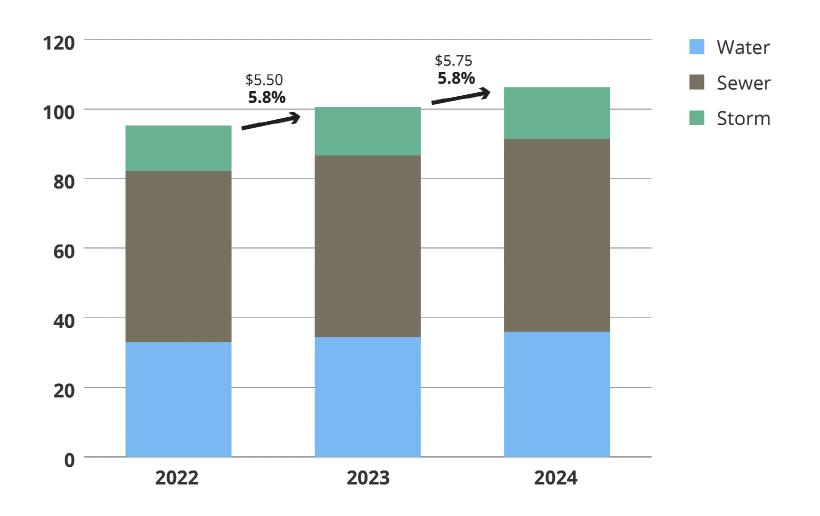
Proposed Monthly Utility Rate Increases

Utility Rate Increase	2022 Rate*	2023 Rate*	2022 vs 2023 Difference
Total – 5.8%	\$95.18	\$100.68	\$5.50

*Monthly rate for a typical single-family residence within the City limits.



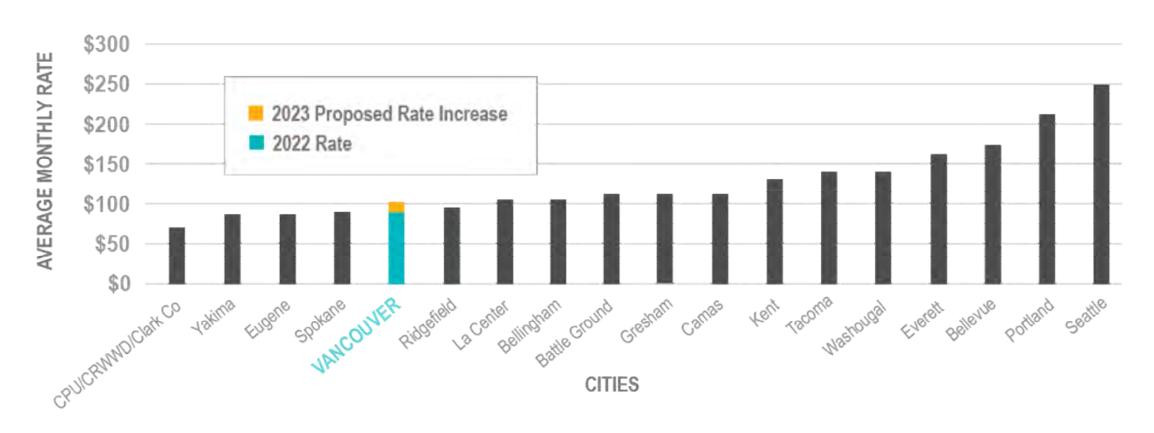
Proposed Monthly Utility Rates*



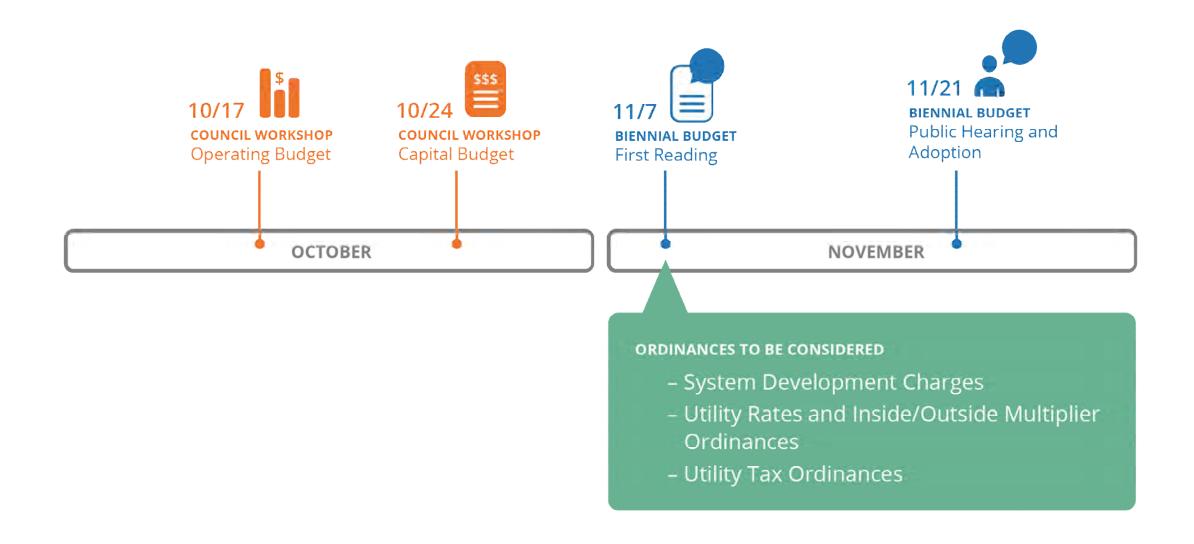
^{*}Monthly rates for a typical single-family residence within the City limits.

Regional Rate Comparison

Single Family Average Monthly 2022 Utility Rates



2022 Biennial Budget Timeline



Policy Direction from Council

Ordinance	Description	Ord. Number
System Development Charges	Increase System Development Charges	VMC 14.04.235
Water Rate Ordinance and Adjust Inside/Outside Multiplier	 Approve 4.5% Water Rate Increase Reduce Inside/Outside Multiplier from 1.5 to 1.25 	VMC 14.04.210
Sewer Rate Ordinance and Adjust Inside/Outside Multiplier	 Approve 6% Sewer Rate Increase Reduce Inside/Outside Multiplier from 1.5 to 1.25 	VMC 14.04.230
Stormwater Rate Ordinance	Approve 8% Stormwater Rate Increase	VMC 14.09.060
Water/Sewer Utility Tax Ordinance	 Align Utility Tax revenue increases with six-year financial forecast 	VMC 5.92.010
Storm Utility Tax Ordinance	 Align Utility Tax revenue increases with six-year financial forecast 	VMC 5.93.010

Next Steps

Near-Term Next Steps:

- November ordinance approvals
- Monitor EPA PFAS regulations
- Look for grant opportunities
- Operations Center design and construction
- Tiered rates study and future discussion
- Initial planning for incinerator replacement
- Reevaluate assumptions in next biennium

