

2023-2029 Capital Investment Plan Overview



Utilities



The mission of Bellevue Utilities is to actively support public health and safety, quality neighborhoods, and a healthy and sustainable environment and economy by effectively managing drinking water, wastewater, storm and surface water and solid waste.

Rates pay for more than water

- Bellevue Utilities provides high-quality drinking water, sewer, and stormwater drainage services that sustain quality of life for our customers and our community.
- When Bellevue residents pay their utility bill, they also support the system that delivers their services. On average, about one-third of each rate dollar pays for capital investments.
- Your utility rates support:
 - Delivery of high quality drinking water
 - Streams, lakes, and wetlands free from raw sewage
 - Protection of our streams, lakes and wetlands from raw sewage
 - Protection of public health and safety by preventing flooding and sewer backups

What is the Capital Investment Plan (CIP)

- This 7-year Plan is updated every two years as part of the city's biennial budget process.
- The Plan includes Water, Wastewater, and Stormwater Improvement Projects
- Activities in the Plan include planning, design, and construction for projects that support the following needs:
 - Renewal and replacement of aging infrastructure
 - Capacity for growth
 - Environmental preservation
 - Service enhancement

Why are Capital Investments Important?

- Maintain reliable services through the renewal/replacement aging utility infrastructure
- Support growth and development of the City
- Provide environmental stewardship
- Ensure excellent utility services

Bellevue Utilities Manages over **\$3.5 Billion** of Utility Assets

 **Drinking Water**

- 606 miles of water mains
- 40,000+ water connections
- 24 Reservoirs
- 22 Pump Stations
- 5800+ fire hydrants

 **Sewer**

- 516 Miles Mainline Pipes
- 13,000+ Maintenance Holes
- 120 miles of lateral sewer pipes
- 47 pump and flush stations

 **Storm and Surface Water**

- 408 miles of storm pipes
- 21,385 public storm drains
- 11 regional detention facilities
- 350+ city owned regional facilities



Your Utility Dollars at Work: Major Program Areas in 2023-2029 CIP



Drinking Water

Renewal/Replacement Aging Infrastructure

- Water Main Replacements
- Reservoir Rehabilitation
- Pump Station Rehabilitation
- System Controls
- Pressure Reducing Valves
- Service Lines/Saddles
- Inlet Station Rehabilitation
- 170th Place SE Pressure Improvements

Capacity for Growth

- Reservoir Siting
- Water System Capital Planning

Service Enhancements

- Operations and Maintenance Yard
- Somerset Highlands Capacity Improvements
- Groundwater Well Improvements



Sewer

Renewal/Replacement Aging Infrastructure

- Sewer Pump Station Improvements
- Mainline Rehabilitation/Replacement
- Minor Capital Projects
- Sewer Lake Line Replacement
- System Controls

Capacity for Growth

- Wastewater System Capital Planning

Service Enhancements

- Operations and Maintenance Yard
- Sewer Extensions-Septic Areas

Regulatory

- Permit Compliance Monitoring



Storm and Surface Water

Renewal/Replacement Aging Infrastructure

- Infrastructure Rehabilitation
- System Controls

Environmental Preservation

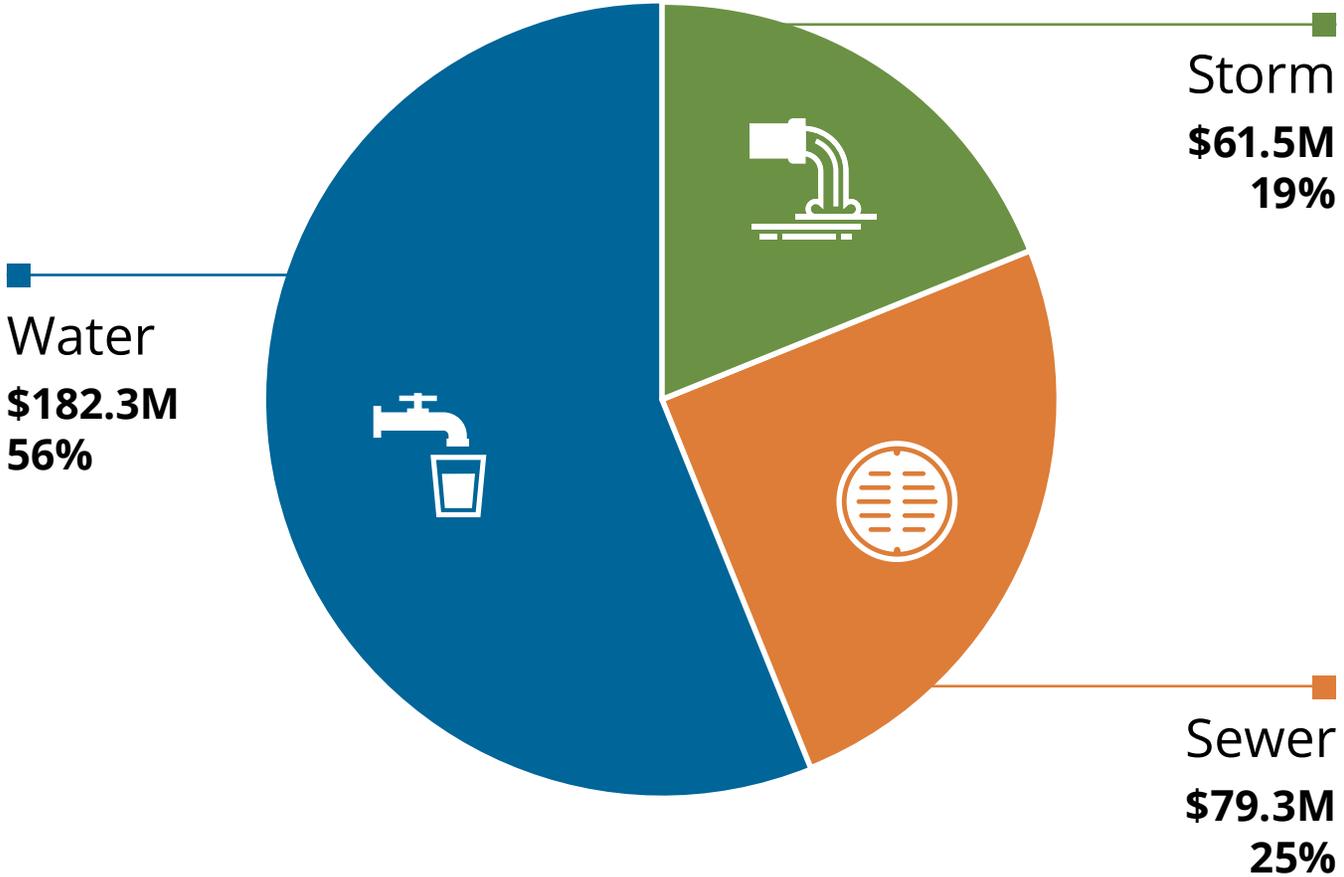
- Flood Reduction
- Culvert Replacement
- Stream Improvements
- Water Quality
- Storm Water Planning

Regulatory

- Permit Compliance Monitoring

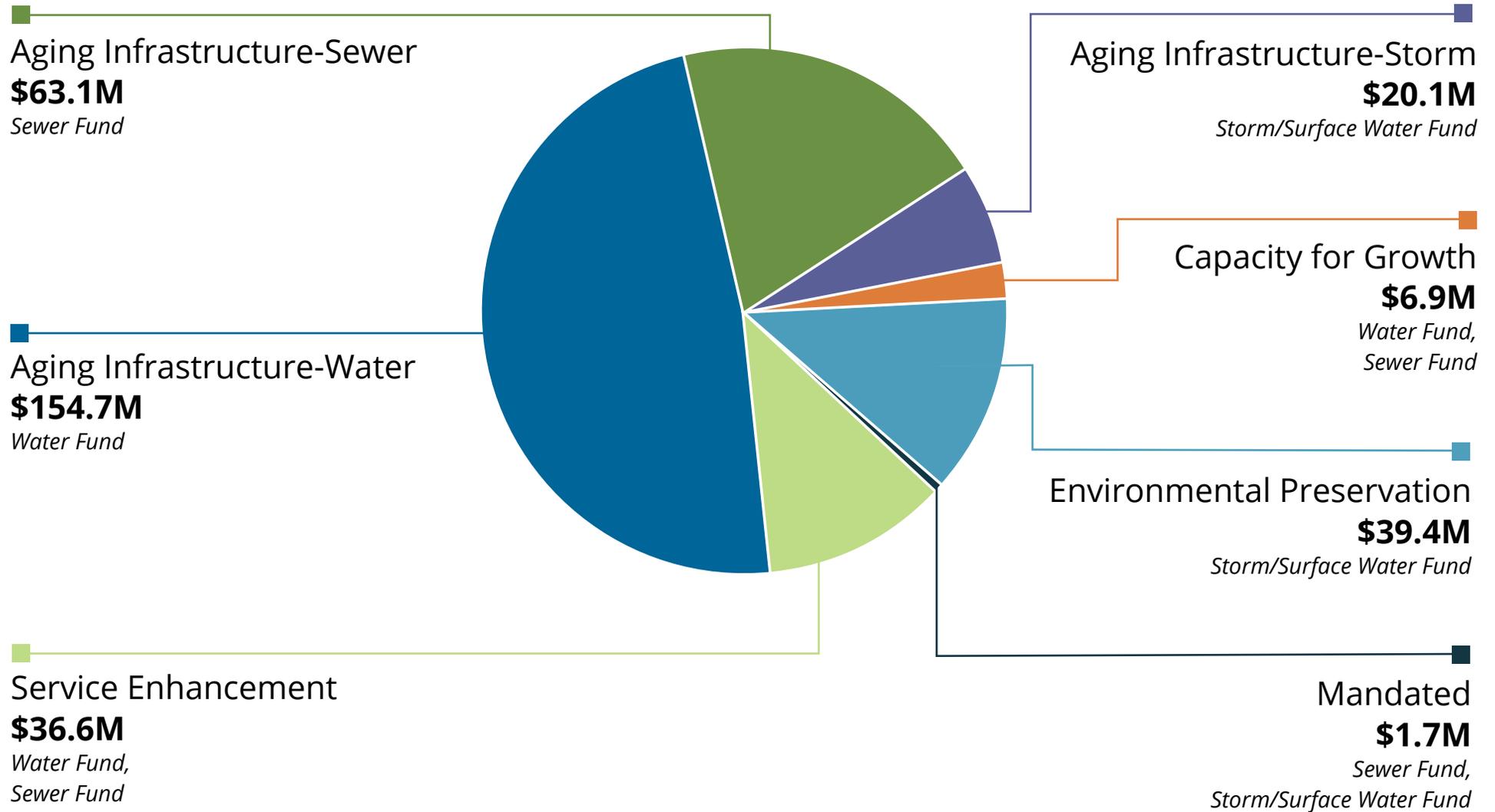
2023-2029 Capital Investments by Utility

\$323 Million



CIP by Area of Investment 2023-2029

\$323 Million





Bellevue Utilities water capital investment projects ensure that current and future generations have reliable drinking water services. Below is a list of water projects proposed for 2023-2029, totaling \$182,325,000 for the 7-year budget.

*Info located on
Capital Improvement
Program webpages*

Capital Investment Project	Description	Reason	Implementation	Cost
Water Main Replacement	Replace 5 miles of old water pipe each year	Renewal and Replacement	2023-2029	\$112,801,000
Pressure Reducing Valve (PRV) Rehabilitation	Replace 3 PRV stations per year; add pressure and flow monitoring	Renewal and Replacement	2023-2029	\$8,932,000
Minor (Small) Water Capital Improvement Projects	Miscellaneous projects or repairs to resolve deficiencies or improve efficiency	Renewal and Replacement	2023-2029	\$1,209,000
Reservoir Rehabilitation or Replacement	Replace drinking water reservoirs that have structural deficiencies and provide recoating for existing reservoirs	Renewal and Replacement	2023-2029	\$13,718,000
Water Pump Station Rehabilitation or Replacement	Rehabilitate and replace water pump stations	Renewal and Replacement	2023-2029	\$10,180,000
Replacement of Large Commercial Water Meter Vaults	Replace four vaults for high volume commercial water meters every year, due to age, access and safety problems	Renewal and Replacement	2023-2029	\$3,206,000
Water Service Line & Saddle Replacement Program	Replace water service lines from the water main to the right-of-way, that are in danger of failing	Renewal and Replacement	2023-2029	\$1,857,000
Increase Drinking Water Storage Availability for West Operating Area	Planning and design for future reservoir needed by 2030.	Capacity for Growth	2023-2029	\$4,216,000
Water Supply Inlet Rehabilitation	Rehabilitate water supply inlets from Cascade and SPU transmission pipes	Renewal and Replacement	2023-2029	\$304,000
Maintenance and Operations Yard	Design and construction of new operations and maintenance facility	Service Enhancement	2023-2029	\$3,867,000
Water System Planning	Evaluate and develop future CIP needs	Renewal and Replacement	2023-2029	\$890,000
SCADA System Upgrade	Upgrade the water system telemetry infrastructure	Renewal and Replacement	2023-2029	\$1,162,000
170th PI SE Pressure Improvements	Resolve deficient water pressure on 170th PI SE	Renewal and Replacement	2023-2029	\$1,367,000
Somerset Highlands Capacity Improvements	Improve fire flow deficiency in Somerset Highlands neighborhood	Service Enhancement	2023-2029	\$5,781,000
Groundwater Well Improvements	Rehabilitate existing groundwater wells for emergency supply	Service Enhancement	2023-2029	\$12,835,000



Bellevue sewer capital investment projects ensure that current and future generations have reliable wastewater services. They also help protect the natural environment that we value in the Pacific Northwest. Below is a list of water projects proposed for 2023-2029, totaling \$79,282,000 for the 7-year budget.

Capital Investment Project	Description	Reason	Implementation	Cost
Sewer Pump Station Improvements	Rehabilitate or replace two sewer pump stations & force mains per year	Renewal and Replacement	2023-2029	\$23,297,000
Sewer System Pipeline Major Repairs	Repair defects found in existing sewer pipes	Renewal and Replacement	2023-2029	\$28,765,000
Minor (Small) Capital Improvement Projects	Miscellaneous projects or repairs to resolve problems or improve efficiency	Renewal and Replacement	2023-2029	\$258,000
Sewer Lake Line Replacement Program	Evaluation and replacement of sewer lake lines in Lake Washington	Renewal and Replacement	2023-2029	\$4,304,000
Sewer System Pipeline Replacement	Replace or insert a liner into older defective pipes, where that is more cost effective than repairs	Renewal and Replacement	2023-2029	\$1,954,000
Operations and Maintenance Yard	Design and construction of new operations and maintenance facility	Service Enhancement	2023-2029	\$6,094,000
Sewer Planning Program	Evaluate and develop future CIP needs	Renewal and Replacement	2023-2029	\$1,763,000
SCADA System Upgrade	Upgrade the sewer system telemetry infrastructure	Renewal and Replacement	2023-2029	\$4,567,000
Post-Construction Monitoring and Maintenance Program	Permit-required monitoring of vegetation survival following improvement projects	Regulatory	2023-2029	\$291,000
Sewer Extensions in Septic System Areas	Install sewer system in areas of city currently served by septic systems	Service Enhancement	2023-2029	\$7,989,000



Bellevue Utilities stormwater capital investment projects ensure that current and future generations have reliable storm drainage services. They also help protect the natural environment that we value in the Pacific Northwest. Below is a list of the storm projects proposed 2023-2029, totaling \$61,532,000 for the 7-year budget.

Capital Investment Project	Description	Reason	Implementation	Cost
Storm System Infrastructure Rehabilitation	Repair defects found in existing storm water infrastructure	Renewal and Replacement	2023-2029	\$19,792,000
Fish Passage Improvement Program	Remove in-stream barriers to fish migration	Environmental Preservation	2023-2029	\$2,724,000
Stream Channel Modification Program	Improve fish habitat in streams	Environmental Preservation	2023-2029	\$10,926,000
Flood Control Program	Construct improvements to reduce or eliminate flooding caused by the public drainage system	Environmental Preservation	2023-2029	\$11,676,000
Stream Restoration for Mobility and Infrastructure	Stream improvements in the Spring District/Bel-Red area	Environmental Preservation	2023-2029	\$258,000
Storm Water Quality Retrofits	Add water quality retrofits at three locations to improve water quality from road runoff that enters Kelsey Creek	Environmental Preservation	2019-2020	\$5,118,000
Storm and Surface Water Planning Program	Evaluate and develop future CIP needs	Environmental Preservation	2023-2029	\$1,421,000
Factoria Blvd Conveyance Improvements	Reduce flooding frequency on Factoria Blvd.	Environmental Preservation	2023-2029	\$7,296,000
SCADA System Upgrade	Upgrade storm water system telemetry infrastructure	Renewal and Replacement	2023-2029	\$865,000
Post-Construction Monitoring and Maintenance Program	Permit-required monitoring of vegetation survival following improvement projects	Regulatory	2023-2029	\$1,456,000

For More Detailed Information

(click the links below):

[Bellevue Utilities Capital Projects](#)

[Bellevue Utilities 2021 Business Profile](#)



 For alternate formats, interpreters, or reasonable accommodation requests please phone at least 48 hours in advance 425-452-5215 (voice) or email UtilitiesCIP@bellevuewa.gov. For complaints regarding accommodations, contact City of Bellevue ADA/Title VI Administrator at 425-452-6168 (voice) or email ADATitleVI@bellevuewa.gov. If you are deaf or hard of hearing dial 711. All meetings are wheelchair accessible.

