

Water Conservation Plan for Greater Victoria

November 25, 2025

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Water Conservation Plan Objectives

- reduce per capita water production and consumption
- manage seasonal peak demand
- improve water use accounting and management of non-revenue water
- program delivery is data driven, measured, and tracked
- encourage wise water use for the Capital Region
- enhance the CRD's reputation as a trusted steward of the region's water resources
- help residents and businesses understand why they should conserve water and the ways that they can do so



Water Conservation Plan Goals

1. Lead and support collaborative conservation best practices in water distribution systems
2. Reduce outdoor water use and instantaneous peak demand
3. Foster community water stewardship and encourage efficient use
4. Improve understanding of community water use through research and monitoring



Goal 1

Lead and support collaborative conservation best practices in water distribution systems

1. Establish a regional non-revenue water management community of practice
2. Investigate the potential impact of conservation-oriented water services pricing in the Juan de Fuca Water System
3. Pilot advanced metering infrastructure in the Juan de Fuca Water System
4. Collaborate with local water suppliers to promote additional water efficiency best practices



Goal 2

Reduce outdoor water use and instantaneous peak demand

1. Review the effectiveness of the Water Conservation Bylaw; based on results, implement new best practices appropriate for the Capital Region
2. Review Water Conservation Bylaw compliance and enforcement regime
3. Enhance outdoor irrigation outreach including campaigns aimed at Water Conservation Bylaw compliance and at reducing peak instantaneous demand
4. Develop “Healthy Landscapes” outreach pilot project Continue native plant gardening workshops



Goal 3

Foster community water stewardship and encourage efficient use

1. Continue print and online education campaigns and share learning resources
2. Attend community events to directly engage with residents
3. Promote the annual “Fix a Leak Week” campaign
4. Continue to deliver ‘Every Drop Counts’ school programs



Goal 3

Foster community water stewardship and encourage efficient use

4. Implement a multi-unit residential building water efficiency pilot project
5. Enhance the industrial, commercial, and institutional Water Use Assessment Program
6. Phase out once-through cooling systems; promote best practices in other cooling technology



Goal 4

Improve understanding of community water use through research and monitoring

1. Participate in the Residential End Uses of Water Study
2. Update the CRD Residential Water Survey
3. Continue annual updates to the Regional Retail Water Use Database
4. Refine plan implementation through an adaptive management approach

Targets

Target 1: Total Water Production

- Reduce per capita water production from treatment facilities by 0.9% year-over-year to achieve a target of 300 litres per capita per day (LCD) by 2035

Target 2: Residential Consumption

- Reduce residential per capita consumption by 1.2% year-over-year to achieve a target of 200 LCD by 2035

Target 3: Instantaneous Peak Demand

- Reduce the maximum change in instantaneous flow rate at 4:00am from 46% to 20%

Target 4: Peak Season Demand

- Maintain Maximum Day Demand at 300 megalitres per day (ML/day) through 2035



Benefits of the Plan

Expected to reduce:

- total annual water production in the by 3-6%
- maximum day demand by 5-9 % by 2035.

Community:

- Enhances drought and climate resilience, safeguards water supplies for emergencies, improves drinking water quality, promotes fairness in water use, and fosters a shared ethic of stewardship and conservation.

Financial:

- Optimize the use of water infrastructure for the CRD, member municipalities and individual users. Accelerates energy efficiency and helps lower utility costs

Environmental:

- Reduces energy consumption and greenhouse gas emissions, enhances stormwater absorption during heavy rains, and helps maintain natural stream flows and aquatic habitats.

Questions & Feedback

Thank You!