



**SNOQUALMIE PASS UTILITY DISTRICT  
KING AND KITTITAS COUNTIES, WASHINGTON**

**RESOLUTION NO. 2023-04**

**A RESOLUTION OF THE BOARD OF COMMISSIONERS OF  
SNOQUALMIE PASS UTILITY DISTRICT, KING AND KITTITAS  
COUNTIES, WASHINGTON, ADOPTING THE WATER USE  
EFFICIENCY PLAN FOR 2023-2029**

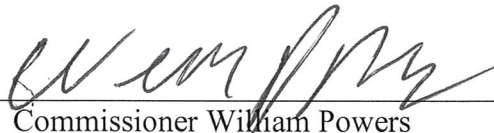
**WHEREAS**, Snoqualmie Pass Utility District (District) is a water-sewer special purpose district authorized and existing pursuant to Title 57 of the Revised Code of Washington (RCW) providing water and wastewater utility services to the Snoqualmie Pass area in King and Kittitas Counties; and

**WHEREAS**, the District Board of Commissioners directed the General Manager to update the Water Use Efficiency (WUE) six-year plan to ensure all WA State Dept of Health policies are adhered to; and

**BE IT RESOLVED**, by the Board of Commissioners of Snoqualmie Pass Utility District, King and Kittitas Counties, Washington, as follows:

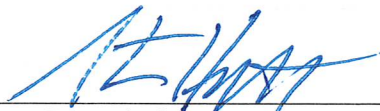
1. Adopt the 2023-2029 WUE Plan (attached)

**ADOPTED** at the open public meeting of the Board of Commissioners of the Snoqualmie Pass Utility District, King and Kittitas Counties, Washington, held on the 13th day of February, 2023.



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Commissioner William Powers



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Commissioner Steve Hartpence



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Commissioner David Harja



## **Water Use Efficiency (WUE) Goal Setting for 2023-2029**

Discuss at the public board meeting on February 13, 2023. This topic was announced at the January 23<sup>rd</sup> board meeting and noticed on the DOH WUE site. The purpose of this document is to set the goals for the next six years. Important to note that the District has an established WUE program in chapter four of the 2022 Water System Plan.

Annual water loss for 2022 was 16.2%, missing 4,713,533 gallons for the year.

The lowest month was Nov with 8.96% or 358,426 gallons missing. This was after fixing several leaks in the preceding month.

- **The 2023-2029 goal is to reduce the missing water by 10% and lower it to 6% or less for the year.**

How will this be accomplished?

- Continue to hire a leak detection contractor to systematically review all District owned water lines throughout the District. With special focus on the Alpentel community due to the age of the system. Most of the service lines between the water main and the meter are galvanized pipe and are prone to leaking.
  - WUE Measure Cost Estimate: \$5,000 annual budget
  - Estimated Water Savings: 250,000 gallons per year
  - WUE Measure Action Status: Annual budgeting and inspection schedule
- Capital projects: Install new water mains and pressure reducing stations. Installing new water mains in specific areas in Alpentel will inevitably reduce water loss simply by replacing the old galvanized pipe that is leaking. The pressure reducing stations will reduce the water system pressure in Alpentel, Summit, Yellowstone, and Hyak communities, thus reducing the leak rates in the distribution system.
  - WUE Measure Cost Estimate: \$2,000,000 capital project budget
  - Estimated Water Savings: 250,000 gallons per year
  - WUE Measure Action Status: planning and design work is complete. The project is shovel ready and the District is seeking funding.
- **The 2023-2029 Water Conservation goal is to increase the customer water meter portal registration by up to 75% participation.**

How will this be accomplished?

- Currently the District offers a program known as the customer water meter portal. On this site the customer can register their own water meter so that they can monitor their



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own water flow and set up usage alerts. The current registered rate is only 22%. The goal is to increase the number of customers that monitor their usage as this will encourage conservation of water usage and also help the customer detect a leak much earlier, rather than relying on meter reading and billing cycles. The District will use education tools and announcements to assist in increasing participation.

- WUE Measure Cost Estimate: \$25,000 annual software renewal
  - Estimated Water Savings: More than 1,000,000 gallons per year
  - WUE Measure Action Status: Already implemented
- **The 2023-2029 Meter accuracy goal is to continue to calibrate source meters and replace failed service meters as needed.**

How will this be accomplished?

- Source meter calibration at the wells is important to obtain more accurate water production information and potentially reduce the District's current DSL percentage. The District has replaced and had the meters calibrated recently. Actual water savings from meter calibration is unknown, but if the accuracy is improved by 0.5%, the resulting water savings could be as much as 200,000 gallons.
- WUE Measure Cost Estimate: \$1,500 annually
  - Estimated Water Savings: unknown, could potentially reduce the DSL by 0.5%
  - WUE Measure Action Status: Already implemented
- Service Meters- in 2018 the District began upgrading all existing service meters. All meters smaller than two inches were replaced. The meters that range from 2" to 6" were either replaced or calibrated by third party contractor. All meters are monitored by the fixed radio read system. The meter communicates at least once every four hours. Replacing and monitoring the usage allows the District to identify the sources of excessive usage and possible leakage on the customer side of the meter. The goal is to continue to ensure that all meters communicate to the fixed radio read system on a regular basis. To change meters and/or radios as they fail. To monitor large water meters and calibrate as needed.
- WUE Measure Cost Estimate: \$2,500 annually
  - Estimated Water Savings: up to 1,000,000 gallons annually
  - WUE Measure Action Status: Already implemented