



WHAT WILL YOU
SAVE
TODAY?

BROUGHT TO YOU BY YOUR LOCAL WATER PROVIDERS

Bryn Mawr – Lakeridge
Water & Sewer District
Cedar River
Water & Sewer District
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City of Duvall
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City of Kirkland
City of Mercer Island
City of Redmond
City of Tukwila
Coal Creek Utility District
Highline Water District
King County Water District No. 20
King County Water District No. 45
King County Water District No. 49
King County Water District No. 85
King County Water District No. 90
King County Water District No. 119
King County Water District No. 125
Lake Forest Park Water District
Northshore Utility District
Olympic View
Water & Sewer District
Seattle Public Utilities
Shoreline Water District
Soos Creek
Water & Sewer District
Woodinville Water District

Medical Facility Case Study

Fred Hutchinson Cancer Research Center

Project Summary

The Fred Hutchinson Cancer Research Center implemented a multi-year program to substantially reduce water, sewer, and other utility costs at its South Lake Union Center. Combined savings for this

project is estimated at 30,000 gallons per day, resulting in annual savings of close to \$94,000 per year. Payback times on the various activities have ranged from one week to less than 1.5 years.

Project Cost: \$82,300 before incentives
Rebate: \$49,000 (gas and water utilities)
Water/Wastewater Savings: 11.1 million gallons/year = \$93,900/year
Payback Time for Customer: 4.25 months

Background

Fred Hutchinson Cancer Research Center is a world renowned cancer research center in Seattle, WA. The South Lake Union Center consists of four laboratory buildings with 530,000 square feet of space built between 1991 and 1997. Two more buildings are in the construction and design phases including an administration building and Public Health Sciences. Around 2,500 people work at the South Lake Union facility.

Problems Identified

Substantial amounts of water being mixed with steam condensate from steam sterilizers, glass washers and a tunnel washer (for large equipment) to keep the temperature of the waste water below 140F

Solutions Targeted

- Repaired valves and adjusted the flow on 23 sterilizers, the glass washers and the tunnel washer. It is estimated that over 16,500 gallons per day of water was saved by making these adjustments.
- Installed sterilizer controls on each of the 23 operating sterilizers. The manufacturer provided an accessory kit that automatically reduces the water flow when the sterilizer is not operating.
- Installing heat recovery from washers to save gas heating energy and city water used for tempering washer wastewater.

Installation: \$700
Annual savings: \$47,000

Installation: \$38,300
Rebate: \$19,000
Annual savings: \$13,800

Installation: \$43,300
Rebate: \$23,800
Annual savings: \$33,100

SAVING WATER PARTNERSHIP

- Replaced a number of older 3.5 gallon per flush toilets with new 1.6 gallon per flush pressure assist toilets. In addition to saving water, it has been reported that the new low-flow toilets actually flush much better!

Important Conservation Activities for the Health Industry

- Improve the performance of hospital cooling towers.
- Retrofit single-pass equipment.
- Recycle laundry water.
- Replace inefficient toilets, urinals and laundry machines with water efficient models.
- Improve the performance of outdoor irrigation.
- **Call 206- 684-SAVE** for free technical assistance and project rebates.