

Water efficient fixtures were installed to assist the university in prioritizing water conservation and stewardship. The university takes a proactive approach to water management—these efficient fixtures were installed before water efficiency requirements became part of the plumbing code used in Alberta.



Water efficiency
reduces water use
without compromising
performance



ENVIRONMENTAL IMPACT

Reduction in water use saves energy that would otherwise be used to treat, transport and distribute the water

Sensor activated faucets ensure that water is not left running when the faucet is not in use

Switching from manual to automatic faucets and flush valves improves hygiene by reducing the surfaces that a user must touch. It also ensures a proper flush every time. Taken together, these result in a cleaner, healthier washroom



INNOVATION & TECHNOLOGY

Faucets use small solar cells to generate power from the room's lighting, which is used to power their internal electronics

Toilet and urinal flush valves generate energy from flowing water, which is used to power their internal electronics



ESTIMATED SAVINGS

\$4,040 per year in utility costs from the upgraded valve

1,324 m³ of water per year

Toilets went from
13 L per flush to 6 L per flush

Faucets went from
7.6 L per minute to 1.9 L per minute

28.6 mg of steam per year that would have been used to heat domestic water

PROJECT TEAM | • Energy Management and Sustainable Operations
• Trades Infrastructure and Maintenance

LESSONS LEARNED | Schedule installations where maintenance is already taking place to reduce labour time.