

## City of Tumwater

EEM#	EEM Description
<b>City Hall Campus</b>	
IGA	<b>Investment Grade Audit (IGA)</b> - Measure Development, Energy Savings Calculations, Preliminary Design (DDC & Mechanical), Incentive Applications (State & Local), Estimating & Preconstruction Services.
EEM 1	<b>Decarbonization</b> - Convert existing HVAC system to Variable Refrigerant Flow (VRF) system
EEM 2	<b>Lighting and Controls Upgrade</b> - Upgrade the remaining compact fluorescent fixtures to LED and add controls <b>Exterior Lighting and Controls Upgrade</b> - Upgrade the exterior lighting fixtures to LED.
EEM 3	<b>Controls Upgrade</b> - Replace existing HVAC controls with Honeywell DDC
EEM 4	<b>Smart Building Analytics, Utility Tracking, and Continuous Commissioning</b> - Provide fault analytics and monitoring on major equipment to reduce energy waste. Optimize controls via continuous commissioning. Provide a new dashboard with equipment health score and cost forecasting for deferred maintenance.
EEM 5	<b>Water Conservation Measures</b> - Retrofit existing fixtures to low flow, higher efficiency fixtures to reduce water consumption.
EEM 6	<b>Irrigation System Water Conservation Measures</b> - Investigate irrigation systems for potential opportunities for water conservation.
<b>Tumwater Library</b>	
IGA	<b>Investment Grade Audit (IGA)</b> - Measure Development, Energy Savings Calculations, Preliminary Design (DDC & Mechanical), Incentive Applications (State & Local), Estimating & Preconstruction Services.
EEM 1	<b>Smart Building Analytics, Utility Tracking, and Continuous Commissioning</b> - Provide fault analytics and monitoring on major equipment to reduce energy waste. Optimize controls via continuous commissioning. Provide a new dashboard with equipment health score and cost forecasting for deferred maintenance.
EEM 2	<b>Water Conservation Measures</b> - Retrofit existing fixtures to low flow, higher efficiency fixtures to reduce water consumption.
<b>Parks and Facilities Building</b>	
IGA	<b>Investment Grade Audit (IGA)</b> - Measure Development, Energy Savings Calculations, Preliminary Design (DDC & Mechanical), Incentive Applications (State & Local), Estimating & Preconstruction Services.
EEM 1	<b>Lighting and Controls Upgrade</b> - Upgrade the remaining compact fluorescent fixtures to LED and add controls <b>Exterior Lighting and Controls Upgrade</b> - Upgrade the exterior lighting fixtures to LED.
EEM 2	<b>Water Conservation Measures</b> - Retrofit existing fixtures to low flow, higher efficiency fixtures to reduce water consumption.
EEM 3	<b>Upgrade Domestic Hot Water Heater</b> - Replace existing domestic hot water heater with new, higher efficiency heat pump water heater.
<b>Public Works - Building #2</b>	
IGA	<b>Investment Grade Audit (IGA)</b> - Measure Development, Energy Savings Calculations, Preliminary Design (DDC & Mechanical), Incentive Applications (State & Local), Estimating & Preconstruction Services.
EEM 1	<b>Decarbonization</b> - Convert existing natural gas-using HVAC systems and equipment to electric
EEM 2	<b>Lighting and Controls Upgrade</b> - Upgrade the remaining compact fluorescent fixtures to LED and add controls <b>Exterior Lighting and Controls Upgrade</b> - Upgrade the exterior lighting fixtures to LED.
EEM 3	<b>Door Control Upgrade</b> - Add door switches to deactivate heating elements when bay doors are open.
EEM 4	<b>Water Conservation Measures</b> - Retrofit existing fixtures to low flow, higher efficiency fixtures to reduce water consumption.
EEM 5	<b>Upgrade Domestic Hot Water Heater</b> - Replace existing domestic hot water heater with new, higher efficiency heat pump water heater.

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EEM#	EEM Description
<b>Public Works - Building #3</b>	
EEM 1	<b>Decarbonization</b> - Convert existing natural gas-using HVAC systems and equipment to electric
EEM 2	<b>Lighting and Controls Upgrade</b> - Upgrade the remaining compact fluorescent fixtures to LED and add controls <b>Exterior Lighting and Controls Upgrade</b> - Upgrade the exterior lighting fixtures to LED.
EEM 3	<b>Door Control Upgrade</b> - Add door switches to deactivate heating elements when bay doors are open.
EEM 4	<b>Water Conservation Measures</b> - Retrofit existing fixtures to low flow, higher efficiency fixtures to reduce water consumption.
<b>Tumwater Valley Golf Club</b>	
IGA	<b>Investment Grade Audit (IGA)</b> - Measure Development, Energy Savings Calculations, Preliminary Design (DDC & Mechanical), Incentive Applications (State & Local), Estimating & Preconstruction Services.
EEM 1	<b>Decarbonization</b> - Convert existing HVAC system to Variable Refrigerant Flow (VRF) system. Investigate possibility of converting gas-consuming kitchen equipment to electric (will require consultation and approval by tenant).
EEM 2	<b>Lighting and Controls Upgrade</b> - Upgrade the remaining compact fluorescent fixtures to LED and add controls <b>Exterior Lighting and Controls Upgrade</b> - Upgrade the exterior lighting fixtures to LED.
EEM 3	<b>Controls Upgrade</b> - Replace existing HVAC controls with Honeywell DDC
EEM 4	<b>Smart Building Analytics, Utility Tracking, and Continuous Commissioning</b> - Provide fault analytics and monitoring on major equipment to reduce energy waste. Optimize controls via continuous commissioning. Provide a new dashboard with equipment health score and cost forecasting for deferred maintenance.
EEM 5	<b>Water Conservation Measures</b> - Retrofit existing fixtures to low flow, higher efficiency fixtures to reduce water consumption. Investigate irrigation systems for potential opportunities for water conservation.