Municipal
Climate Change
Action Centre

CEC Simplified Retrofits List

How to apply for Simplified Retrofits

The Community Energy Conservation program helps municipal facilities reduce energy use and greenhouse gas emissions (GHGs) by providing rebates to help identify and implement energy-saving projects. Through the CEC program, municipalities can receive rebates for retrofit projects that increase the efficiency of their energy systems while reducing energy costs and GHG emissions.

All retrofit projects through the CEC program require project savings details that the retrofit will achieve, such as the annual energy savings, annual energy cost savings, annual GHG emission savings, and lifetime GHG emission savings.

If a municipality does not have this information, there are two ways it can be collected to supplement a retrofit project application, by pursuing an energy audit through the CEC program, or by pursuing one of the Simplified Retrofits below as a fast-track option.

A municipality can apply for any Simplified Retrofits without needing an energy audit due to the predictability of the energy savings achieved by these types of projects. See all eligible project types in Table 1 below.

Table 1: Eligible Simplified Retrofits for the CEC program

Simple Retrofit	Mandatory Inputs	Additional Inputs (if available)
Lighting and Lighting Controls	**To be submitted through the CEC Lighting Calculator:** • Project cost • Price of electricity ($/kWh) • Baseline lighting equipment, fixture quantity, wattage, and lighting controls • Lighting operating hours per year • Proposed lighting equipment, fixture quantity, wattage, and new lighting controls	• N/A
Pipe Insulation	• Length of uninsulated pipe (ft) • Length of uninsulated joins (ft) • Pipe material and size (nominal pipe size) • Type of proposed insulation and thickness	• Operating temperature
Weatherstripping and Door Sweeps	• Number of doors • Length of weatherstripping and door sweeps per door (ft)	• N/A
Pool Pump Replacements (<20 Horsepower)	• Operating hours per year • Existing pump horsepower (found on pump nameplate)	• N/A
Pool Pump Variable Frequency Drives (<50 Horsepower)	• Operating hours per year • Existing pump horsepower (found on pump nameplate) • Pump efficiency (found on pump nameplate) • Pump enclosure and type (found on pump nameplate)	• N/A
HVAC Pump Variable Speed Drives	• Operating hours per year • Existing pump horsepower (found on pump nameplate) • Pump application (hot water or chilled water)	• N/A
HVAC Supply and Return Fan Variable Speed Drives	• Operating hours per year • Existing fan horsepower (found on nameplate)	• Existing fan control type • Proposed fan control type

Simple Measure	Mandatory Inputs	Additional Inputs (if available)
Domestic Hot Water - Storage Tank Upgrade	• Current hot water heater setpoint (in °C or °F) • Photo(s) of unit nameplate and setpoint temperature • Number of hot water tanks • Existing unit efficiency • New equipment specification sheet and efficiency	• Incoming (City) water temp • Estimated average annual hot water use (in gallons or litres)
Domestic Hot Water - Tankless	• Current hot water heater setpoint (in °C or °F) • Photo(s) of unit nameplate and setpoint temperature • Number of hot water tanks • Operating days per year and number of occupants • New equipment specification sheet and efficiency	• Incoming (City) water temp • Existing unit efficiency
Space Heating Boilers (<2.5 Million BTUH total building capacity)	• New equipment efficiency (%) • Input capacity in BTUH (found on existing boiler nameplate)	• Existing equipment efficiency (%) • Load factor (%) • Equivalent Full Load Heating hours (EFLH)
Space Heating Furnaces (<2.5 Million BTUH total building capacity)	• New equipment efficiency (%) • Input capacity in BTUH (found on existing furnace nameplate)	• Existing equipment efficiency (%) • Load factor (%) • Equivalent Full Load Heating hours (EFLH)
Smart Thermostats	• Percent of heating provided by natural gas, if applicable • Input heating capacity in BTUH, if applicable (found on nameplate) • Input cooling capacity in tons or BTUH, if applicable (found on nameplate)	• Equivalent Full Load Heating hours (EFLH) • Equivalent Full Load Cooling hours (EFLC) • Annual Fuel Utilization Efficiency for gas heating, or Heating Seasonal Performance Factor for electric heating • Seasonal Energy Efficiency Ratio for cooling, if applicable
Ice Rink Flood Water De-aerators (REALice)	• Current hot water heater setpoint (in °C or °F) • Photo(s) of hot water heater nameplate and current setpoint temperature • New resurfacing temperature after installation of the de-aerator • Number of operating days per year • Number of ice resurfacings per day • Volume of water used per resurfacing (in litres or gallons) • Number of ice surfaces • Area of ice surface(s)	• Incoming (City) water temp • Baseline chiller plant efficiency • Brine % by volume • Chiller plant load factor

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Get Started

Our team can provide the necessary energy and GHG saving information needed to supplement an application for the retrofit project types listed above. Follow these steps to apply:

1. Submit an Expression of Interest. A CEC program team member will contact you to discuss the project.
2. Collect the mandatory input information and any additional inputs as seen above. Collect photos of the nameplate data from existing equipment and any other supporting documentation as required.
3. Submit the items listed in Steps 2 to your designated CEC program team member along with equipment and installation cost quotes, utility data, equipment specification sheets, and any other information as outlined in the CEC Guidebook.
4. Receive the energy and GHG savings information back from the CEC program team and submit the remaining CEC application form.

After Step 3, MCCAC will provide you with estimates on the annual energy savings, costs savings, GHG emission savings, and lifetime GHG emission savings for your Simplified Measure project. Lighting Projects must use the Lighting Calculator and can proceed directly to a full application package. If approved, MCCAC will issue a Funding Agreement for signing. After signing, the project can proceed to installation and completion.

CONTACT US

Questions about the CEC program may be directed to:
Municipal Climate Change Action Centre
300-8616 51 Avenue
Edmonton, AB T6E 6E6
780.433.4431
contact@mccac.ca