

City of Brockville Energy Conservation and Demand Management Plan – 2019

What is an energy conservation and demand management (CDM) plan?

Energy CDM plans provide information about how the public agency will conserve energy, and should include the public agency's energy consumption and GHG emissions report. Public agencies will need to post five-year energy CDM plans starting in 2014. Plans must be updated every five years beginning in 2019.

These plans should outline:

- ✓ conservation goals and objectives
- ✓ proposed conservation measures
- ✓ estimated costs and benefits
- ✓ any renewable energy installations.

Conservation goals and objectives

The City of Brockville's Strategic Plan proposes to reduce energy consumption by 2% each year.

Proposed Conservation Measures

The City has completed many projects aimed at energy conservation. They include:

Completed

- Interior lighting retrofit, initially to T8 and T5 and now many buildings have converted to LED.
- Installation of motion sensor lights single-stalled washrooms with plans for more in office areas.
- Sprinkler system at Library converted to timer and installation of a rain barrel.
- Installation of voltage optimization at Water Treatment Plant to increase power factor.
- Streetlight retrofit
- Traffic light retrofit
- Installation of programmable thermostats in city buildings
- Installation of variable speed motors at the Water Treatment and Water Pollution Control Plants.
- Installation of variable speed motors at all Wastewater Pumping Stations.
- Installation of new induction lighting over the ice pads at both arenas.
- Installation of new low-e ceiling at both arenas.
- Upgrade of HVAC unit in Community Hall at Memorial Centre.
- Installation of a variable speed motor at the Youth Arena.
- Pump and motor refurbishment at Reservoir.
- Water Treatment Plant – Heating system upgrade to natural gas and enclose large, older windows.
- Water Treatment Low Lift Station – Pump and motor refurbishment.
- Reservoir – Pump refurbishment and motor replacement.

- City Hall window retrofit - The windows at City Hall are being retrofit to improve efficiency by closing off the drafts and to reduce energy by ensuring the windows are operable so people can open their window for fresh air instead of turning on the air conditioner.
- Water Treatment Plant – Continuation of the conversion to gas heating systems in filter building area.

Estimated Costs and Benefits

The benefits are lower operating costs and/or more comfortable working environment.

Renewable Energy Installations

Currently, the City of Brockville has two rooftop solar projects located at the Brockville Memorial Centre (200 kW) and the Gord Watts Municipal Centre (60 kW).