

Attachment 3

Summary of Energy Conservation and Efficiency Measures by Sector

Summary of energy conservation, efficiency and measures that are **currently underway or were completed in 2022**

Existing Policy/Policy levers and practice

- Developing a climate action decision making framework to aid climate action project prioritization and allocation of funds from the Climate Action Reserve fund.

Building Sector

- Construction of the tāmasewtx^w Aquatic and Community Centre in underway, which will be fully electric and the first aquatic center in Canada to achieve the Canadian Green Building Council Zero Carbon Building standard, resulting in a 90% reduction in GHG emissions compared to the previous Aquatic centre on the site
- The tāmasewtx^w Aquatic and Community Centre will include roof mounted photovoltaic panels with a projected electrical yield of 300MWh per year
- Completed an energy saving pilot program with a third-party supplier to improve efficacy of hydronic heating systems at City Hall and Century house
- Completed energy performance upgrades to 3 civic facilities via small-scale improvements to existing HVAC systems (installation of variable speed motors) and building automation controls.
- Converted some appliances at the Fire Halls from gas to electric
- Continued to build awareness across departments about the need to consider GHG emission reduction and energy efficiency in all facility projects, especially renovations or schedule equipment replacements
- Continued to implement CEERS document strategies for scheduled and unscheduled maintenance projects, replacing old lighting with LED fixtures wherever possible, and choosing high-efficiency equipment for all replacements

Vehicle Fleet Sector

- Upgraded 5 light and medium-duty vehicles to hybrid
- Added one new fully electric light-duty vehicle
- Converted emergency response auto-extraction equipment and poser tools to electric power
- An assessment of EV charging infrastructure to support fleet electrification has been initiated
- Reviewing options to use lower carbon intensity fuels

Lighting Sector

- Replacing metal halide lighting with LED retrofit kids along multi-use pathways
- Existing streetlights requiring new fixtures are being replaced with LEDS

- HPS bulb failures in existing streetlights are replaced with bulbs rather than new fixtures to maximize the assets useful life and significantly reduce costs
- LED light installations are a requirement for new development and capital projects. This will significantly reduce electricity consumption, extend the service life of the luminaires and reduce maintenance costs.

Water & Wastewater Sector

- Aging pump station equipment (i.e motors) will be replaced with high efficiency models as older equipment is phased out or repaired.
- New pump station/locations are identified as needed, new sanitary station was built in Queensborough as part of a larger development