

### **Appendix 3: Environment and Climate Change Workplan 2023-2026**

Appendix 3 provides an overview of the Implementation Plan or work plan that can continue to be implemented with existing resources. Existing contract resources are assumed to continue beyond 2023.

In addition to the below projects, Climate Change staff actively supports external groups/stakeholders with projects and participates on a variety of internal and external committees/working groups.

#### **2023**

**Climate Lens Study (Upcoming)** – Development and application of a ‘climate lens’ to capital projects to maximize efficiency.

**Building Automation System (BAS) Study (Upcoming)** – Preparation to implement building automation systems across Town facilities to improve energy performance and operational efficiency.

**Behavioral Insights for Community Climate Action (Ongoing)** – Development of innovative community engagement tools to support and enable community action.

**Low Carbon Feasibility Studies** – Development of a strategy for achieving net zero carbon at existing facilities, similar to existing plans for the Town Hall and Arenas.

**Fleet Electrification Study (Ongoing)** – Feasibility study and roadmap for fleet electrification.

**Courier/Carpool Vehicle Electrification (Upcoming)** – Purchase of an electric vehicle for Town Courier and staff pool vehicle use.

**Community Education Days (Ongoing)** – Education and awareness events aimed at driving uptake of electric vehicles. Includes the ‘Race to Net Zero Event’ held April 22 as part of annual Earth Day celebrations.

**Climate Change Investment Fund (Ongoing)** – Provides ‘seed’ funding to support practical, community-based initiatives relating to mitigation and adaptation. Town staff will continue to administer the fund and implement changes to improve performance.

**Land-Based Renewable Energy Mapping Study (Upcoming)** – Analysis of potential locations for land-based renewable energy and development of feasibility analysis and policy pathway for increasing local renewable energy supply.

**Solar PV Uptake Resources (Upcoming)** – Resources for homeowners providing information on how to install solar panels and economic benefits of solar power.

**Retrofit Halton Hills Expanded Program (Upcoming)** – Options for expansion of the Retrofit program will be provided to Council in a future report.

**Anaerobic Digester Feasibility Study (Upcoming)** – Feasibility study to identify opportunities for deployment of anaerobic digesters to generate renewable natural gas.

**Adaptation Plan Outreach (Ongoing)** – Limited community outreach and education campaign to raise local awareness about the need to adapt to a changing climate.

**Facility Efficiency and Operational Optimization Projects (Ongoing)** – Implementation of facility retrofit projects to increase efficiency, optimize operations, increase user comfort and reduce emissions. Includes Town Hall heat pump replacement, dehumidification and heat recovery installation at Mold-Masters SportsPlex and Acton Arena. This project is nearing completion.

**Council Report Template Update (Upcoming)** – Subject to completion of the Town’s Strategic Plan, carry out update to the Climate Change section of the Town’s Council Report Template to include more robust reporting on anticipated climate change impacts.

## **2024**

**Workshops - Solar Tours & Green Building** – Community engagement about solar energy installations and local green buildings.

**RetrofitHH Expanded Program** – Ongoing implementation of RetrofitHH program.

**Low Carbon Feasibility Studies** – Development of emission reduction and operational efficiency options for facilities.

**Climate Change Investment Fund** – continued administration of the Climate Change Investment Fund (CCIF)

**Carport Solar PV Arrays D&E** – Design and engineering for Carport Solar power collection at Town Hall, Mold-Masters SportsPlex and Acton Arena.

**Geothermal Study** – Analysis of potential to integrate geothermal systems at additional Town Facilities.

**Lighting** – Review of opportunities to integrate LED lighting at remaining Town Facilities.

**Soil Health Program Feasibility and Design** – Feasibility and design for a program to encourage landowners to increase the ability of agricultural soils to absorb carbon.

**Green Building Standard Update** – Update of the Town’s Green Development Standards.

**Renewable Energy Cooperative Feasibility and Market Sounding** – Analysis, design, and market sounding for development of a local renewable energy cooperative in Halton Hills.

**CEC & DM Plan Update** – Update to Town's Corporate Energy Plan to include additional actions. This is a legislated requirement under O. Reg. 397/11.

**Community Implementation Partner Design Study** – Evaluation and design for creation of a community-based, non-profit organization to assist in the implementation of the Low Carbon Transition Strategy, like [Future Energy Oakville](#) or the Peel region [Centre for Community Energy Transformation](#).

**BAS Implementation at Various Facilities** – Installation and optimization of Building Automation System at key Town Facilities.

**Facility Efficiency and Operational Optimization Projects** – Implementation of facility retrofit projects to increase efficiency, optimize operations, and reduce GHG emissions.

## **2025**

**Low Carbon Design Brief (LCDB) Study - Robert C. Austin** – Development of a strategy for achieving net zero carbon at Robert C Austin similar to existing plans for the Town Hall and Arenas.

**Low Carbon Transition Strategy Update** – Update to Low Carbon Transition Strategy to review status and identify new actions.

**Climate Change Investment Fund** – continued administration of the Climate Change Investment Fund (CCIF)

**Facility Efficiency and Operational Optimization Projects** – Implementation of facility retrofit projects to increase efficiency, optimize operations, and reduce emissions. Includes lighting retrofits and domestic hot water and boiler replacements.

**BAS Implementation at Various Facilities** – Building Automation System implementation at additional facilities.

**Arena Ice Resurfacers** – Purchase of electric ice resurfacers for Acton Arena and Mold-Masters SportsPlex.

## **2026**

**RetrofitHH Expanded Program** - Ongoing implementation of RetrofitHH program.

**Georgetown Library Lighting Retrofits** - Retrofits to lighting and Georgetown Library.

**MMSP LCDB REALice** - Evaluation of implementing energy saving technology for ice production at Mold-Masters SportsPlex.

**Climate Change Investment Fund** – continued administration of the Climate Change Investment Fund (CCIF)

**Robert C. Austin Building Automation System** – Implementation of Building Automation System at Robert C. Austin.

**Town Hall Geothermal System** - Installation of Geothermal heating at Town Hall as part of Low Carbon Design Brief Implementation.

**Town Hall Carport PV Arrays** - Installation of Carport Solar PV Arrays at Town Hall.