



Brock Township's 2024 to 2029 Energy Conservation Demand Management Plan



Township of Brock

Table of Contents

1. Introduction	2
2. Purpose	2
3. Background	2
4. Corporate Directives	2
4.1 Strategic Plan	3
4.2 Asset Management	3
4.3 Core Service Review	3
4.4 Integrated Community Sustainability Plan	3
4.5 Climate Emergency Declaration	4
5. Overview of Energy Consuming Assets	4
Figure 1: List of the Township’s Energy Consuming Buildings and Assets by Portfolio	5
6. Energy Trends	5
Figure 2: Overview of 2023 Corporate Energy Consumption and GHG Emissions	5
Figure 3: Total Energy Use by Energy Type (2023)	6
Figure 4: Energy Use by Facilities (2023)	6
Figure 5: Total Energy Consumption from 2012 to 2023	7
7. CDM Energy Reduction Target	8
Figure 6: GHG Emissions (tonnes CO ₂ e) from 2019 to 2023	8
8. Commitment to Energy Conservation	9
8.1 Energy Conservation and Demand Management: 2019 to 2023 Progress	9
8.2 CDM Plan Organizational Measures: 2019 to 2023 Progress	9
Figure 7: Review of 2019 to 2023 CDM Goals and Objectives outlining Progress	9
8.3 Key Corporate Initiatives from 2019 to 2023	11
8.4 Renewable Infrastructure	13
8.5 Proposed Energy Conservation and Demand Management: 2024 to 2029	13
Figure 8: Conservation Demand Management Goals and Objective for 2024 to 2029	13
9. Conclusion	15
Appendix A	16

1. Introduction

The Township of Brock, hereinafter referred to as either Brock or the Township, is a municipality located in northern Region of Durham that is situated on the east shore of Lake Simcoe. The municipality is generally rural in nature with agriculture as the largest employer mixed with three distinct villages including Beaverton, Cannington, and Sunderland. Brock is home to approximately 13,000 residents.

2. Purpose

Energy management requires a corporate commitment to reduce consumption across all services and facilities through an integration of energy efficient practices that is embedded into the overall conduct of the organization. Regular review and monitoring of energy performance is required to track progress and costs associated with wasted energy to determine where energy retrofits and enhancements are needed. Successful energy management requires a holistic and organized commitment across the corporation to continually improve energy performance.

3. Background

In 2009, the Ministry of Energy and Infrastructure enacted Ontario Regulation 397/11 - the Green Energy Act to help public agencies manage and reduce their energy consumption. As part of this Act, these agencies are required to report and publicly post on their website, their annual energy consumption and greenhouse gas (GHG) emissions. Brock Townships' reports are posted to the [Township's website](#).

In 2018, Ontario Regulation 397/11 was revised to Ontario Regulation 507/18 - the Electricity Act, then updated to Ontario Regulation 25/23. Municipalities are required to report their goals and objectives for conserving and reducing their energy consumption while managing their future demand for energy. They are also required to develop and implement an Energy Conservation and Demand Management (CDM) Plan, to be reviewed and updated every 5 years. The previous [Township of Brock's Energy CDM Plan](#) covered 2019 to 2023. This report will outline key initiatives implemented, identify future plans for energy conservation, and associated reductions in GHG emissions, as well as forecast current and proposed actions for 2024 to 2029. This revised plan must be approved by Council resolution, posted to the Township of Brock website, and submitted to the Ministry of Energy by July 1st, 2024.

4. Corporate Directives

As the Township prepares for future growth and development, it becomes crucial to plan for the delivery of municipal services and infrastructure in a manner that aligns with a Corporate vision for sustainability. While energy efficiency and climate mitigation have been a Township priority for many years, significant steps to address climate change, sustainability, and

energy efficiency have been made through the continued alignment of various municipal strategies, as noted below.

4.1 Strategic Plan

The Township of Brock's [Corporate Strategic Plan](#) identifies key priorities for the municipality and includes a vision, mission and principals that will guide our actions for the coming years, including supporting a healthy, safe, and sustainable community.

4.2 Asset Management

Asset Management planning takes into consideration the potential impacts of climate change and provides the Township with the information it needs to make decisions on how best to manage capital assets in a sustainable way, as well as take actions that may be required to address vulnerabilities that may be caused by climate change to the Township's overall capital assets.

The Township's contribution to climate change through GHG emissions will be mitigated in accordance with local reduction targets, financial capacity, and stakeholder support. In addition, climate change will be considered as part of the Township's risk analysis within its [Asset Management Plan](#). The awareness of infrastructure risks will help to enable the Township to balance the potential cost of climate change vulnerabilities with the cost of proactively reducing or eliminating these vulnerabilities before they occur.

4.3 Core Service Review

Recognizing the need to modernize and streamline the Township's operations and service delivery model, Brock completed a [Core Service Review](#) in September 2023 with the ultimate goal of achieving high value-for-money service delivery and securing a financially sustainable path forward. The tools and recommendations will help to inform Brock's Asset Management Plan, scheduled for 2024, and their future Comprehensive Strategic Plan.

4.4 Integrated Community Sustainability Plan

After receiving funding from the Federation of Canadian Municipalities' Green Municipal Fund, Brock Township, in conjunction with the Township of Scugog and the Township of Uxbridge, developed an [Integrated Community Sustainability Plan](#) (ICSP) in 2010. Following the ICLEI Partner's for Climate Protection (PCP) 5 step framework, the Township completed all 5 Milestones for both corporate and community.

As part of Milestone 2, corporation GHG reduction targets were established for the 2008 baseline year of:

- 28 per cent reduction by 2015;
- 65 per cent reduction by 2030; and
- 96 per cent reduction by 2060.

Note that these corporate targets are based on total corporate emissions from energy consumption from buildings and streetlights, vehicle fleet, and corporate waste. For the purpose of the CDM Plan, since the Township started reporting their energy consumption in 2011 and included associated GHG emissions in a consistent format starting in 2012, we will use this data as the baseline to trend and track targets against. Refer to Section 6 for Energy reporting versus the 2012 baseline data.

4.5 Climate Emergency Declaration

On August 23, 2021, the [Township of Brock declared a Climate Emergency](#), as outlined in Appendix A. The declaration speaks to the Township's commitment to reduce GHG emissions across the Township and its broader community, with the urgency to take transformative action to protect of the economy, ecosystems, and communities from impacts of climate change. Creating a strategic sustainability and climate lens for which to review Council business, projects, and budgets will help to prioritize climate change initiatives.

5. Overview of Energy Consuming Assets

Services provided by Brock Township include public works, fire, parks and recreation, culture, animal service, and streetlights. Approximately 30 facilities are currently required to support the delivery of these services. Energy used in the operation of these facilities and delivery of services include Hydro One Networks and Elexicon Energy (formerly Whitby Hydro and Veridian Connections which merged effective April 1, 2019). Natural gas is supplied by Enbridge Gas Distribution. Propane is provided by Superior Propane. Heating oil is provided by Pindar's Sunoco. Fuel is provided by various vendors.

As outlined in Figure 1, the following key facility assets fall within the scope of the 2024 to 2029 CDM Plan. A number of smaller and miscellaneous energy consumers have not been listed below, but still contribute to the total annual energy consumption.

Figure 1: List of the Township's Energy Consuming Buildings and Assets by Portfolio

Operational Area		Description
Administrative	Town Halls & Municipal Office	<ul style="list-style-type: none"> Town Halls in Beaverton, Cannington, & Sunderland Cannington Municipal Office
	Health Centre	<ul style="list-style-type: none"> Health Centres in Beaverton and Sunderland
	Community Buildings	<ul style="list-style-type: none"> Manilla Hall and Wilfrid Hall
Cultural	Libraries	<ul style="list-style-type: none"> Libraries in Beaverton, Sunderland, & Cannington
	Historical Buildings	<ul style="list-style-type: none"> Sunderland Historical Building
Emergency Services	Fire Halls	<ul style="list-style-type: none"> Fire Halls in Beaverton, Cannington, & Sunderland
Other	Garages	<ul style="list-style-type: none"> Garages in Beaverton, Cannington, & Sunderland
	Patrol Yards	<ul style="list-style-type: none"> Patrol Yard in Beaverton
	Harbour & washrooms	<ul style="list-style-type: none"> Harbour & public washrooms in Beaverton
	Animal Shelters	<ul style="list-style-type: none"> Animal Shelter in Cannington
Recreation	Arenas	<ul style="list-style-type: none"> Arenas in Beaverton, Cannington, and Sunderland
	Curling Club	<ul style="list-style-type: none"> Curling Club in Beaverton and Cannington; note Cannington's leased out as a gym in 2023
Streetlights	Sports Field Lighting	<ul style="list-style-type: none"> Lighting for ball diamonds and sports field
	Streetlights	<ul style="list-style-type: none"> Streetlights and parking lot lighting

6. Energy Trends

Since 2011, the Township has created annual energy use reports that present energy consumption and GHG emissions by facility and meter. These [energy reports](#) are located on the Township's web site, along with the previous [Energy Conservation and Demand Management Plan](#). An overview of the 2023 energy consumption and GHG emissions by corporate facility portfolio is provided in Figure 2, below.

Figure 2: Overview of 2023 Corporate Energy Consumption and GHG Emissions

Building Type	Total Energy (ekWh)	Electricity (ekWh)	Natural Gas (ekWh)	Cost (\$)	Emissions (GHG/kg)
Administrative	1,286,995	327,402	959,593	94,752	180,029
Cultural	591,360	124,801	466,599	34,954	86,552
Emergency Servi	3158,304	79.177	279,128	25,039	51,910
Other	85,802	41,240	44,562	9,430	9,102
Recreation	1,404,717	792,037	612,681	149,214	131,544
Streetlights	612,329	612,329	0	116,442	17,435
Municipal Totals	4,339,509	1,976,986	2,362,523	429,830	476,571

Figure 3: Total Energy Use by Energy Type (2023)

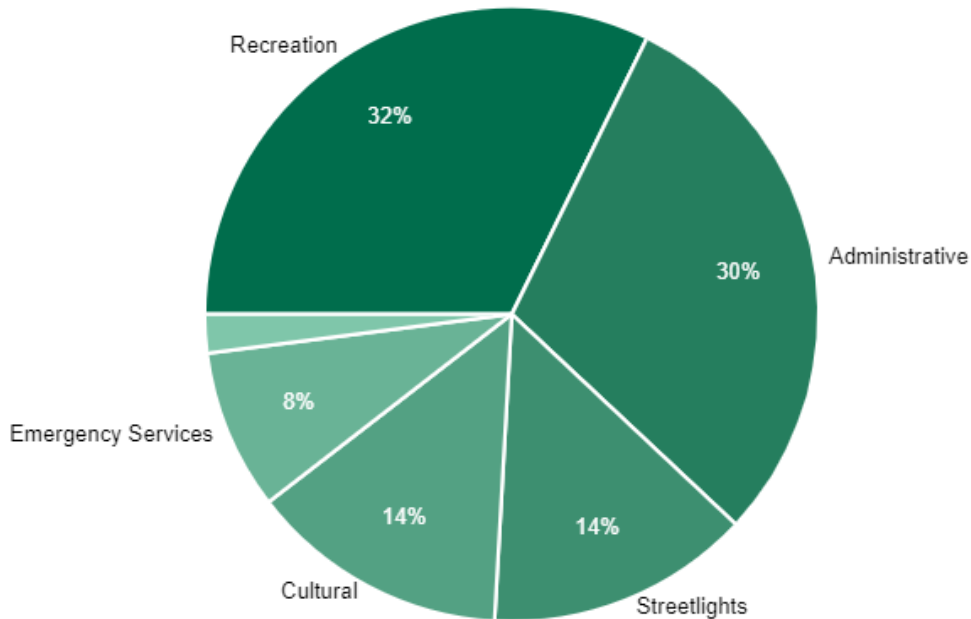


Figure 4: Energy Use by Facilities (2023)

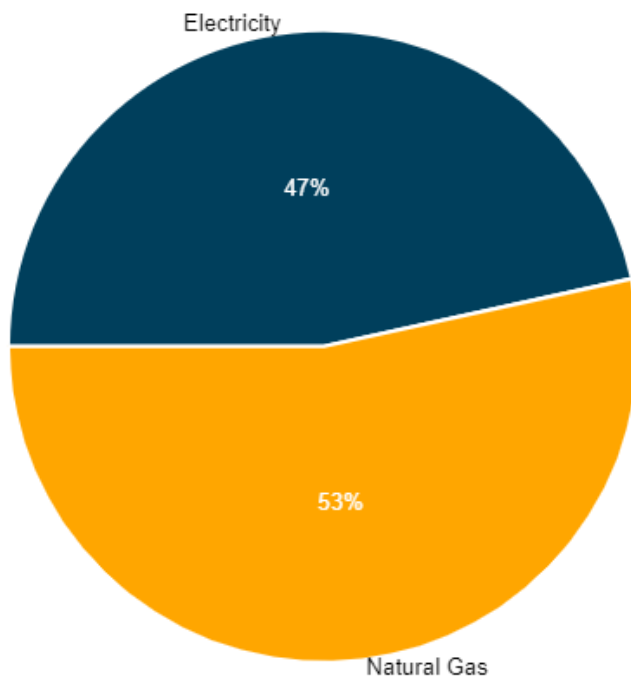


Figure 5 trends energy consumption versus the 2012 baseline. One of the significant impacts which will be noted in the GHG emissions is the phasing out of fuel oil in 2017. Another very noticeable trend is the impacts of COVID-19 that drastically reduced the energy consumption and associated GHG reductions on facilities that were closed and those that faced unusual operating hours and use. With the closure of municipal facilities or modification of work environments, the 2020 and 2021 data cannot be used to trend any facility impacts.

Figure 5: Total Energy Consumption from 2012 to 2023

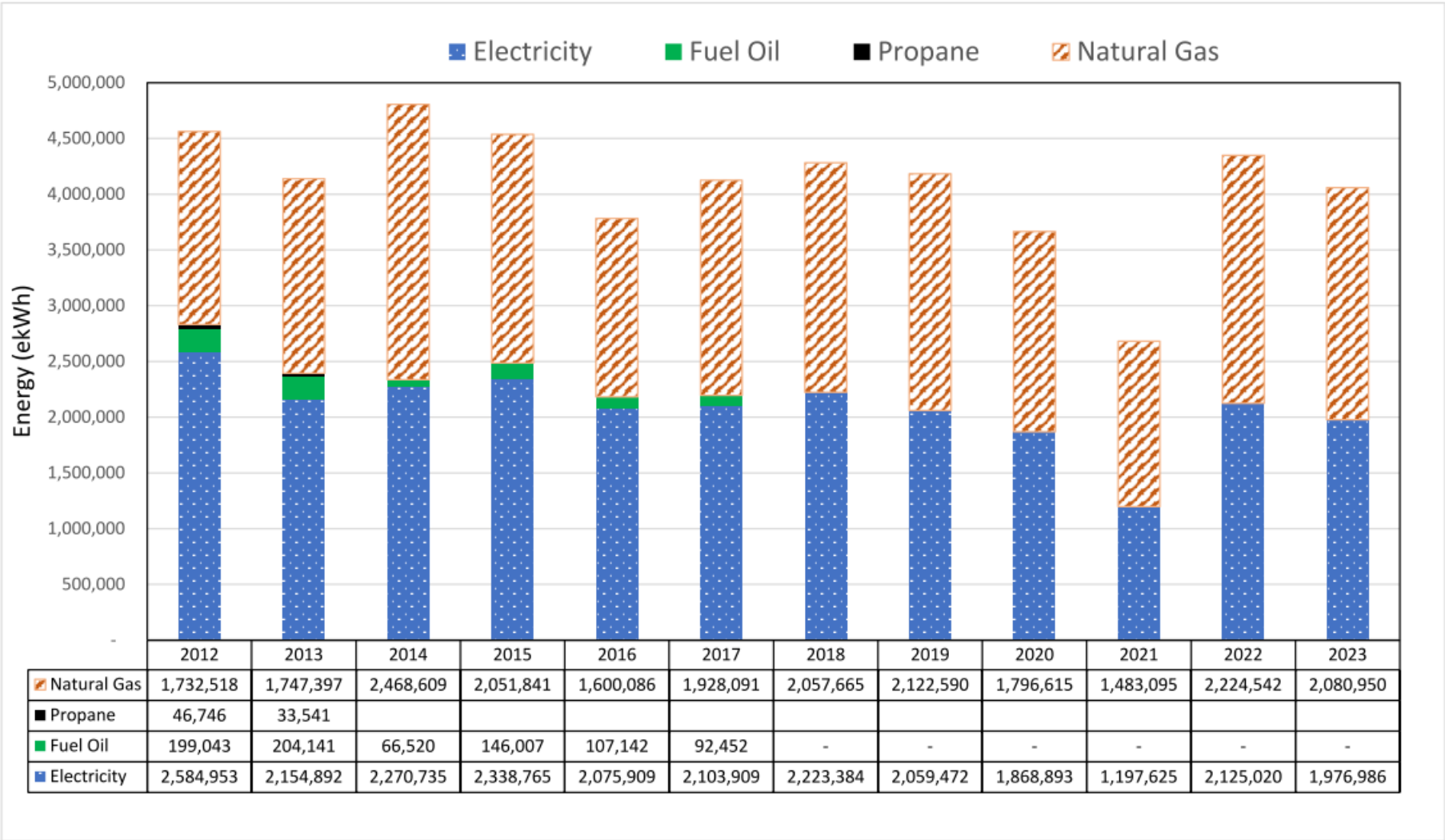
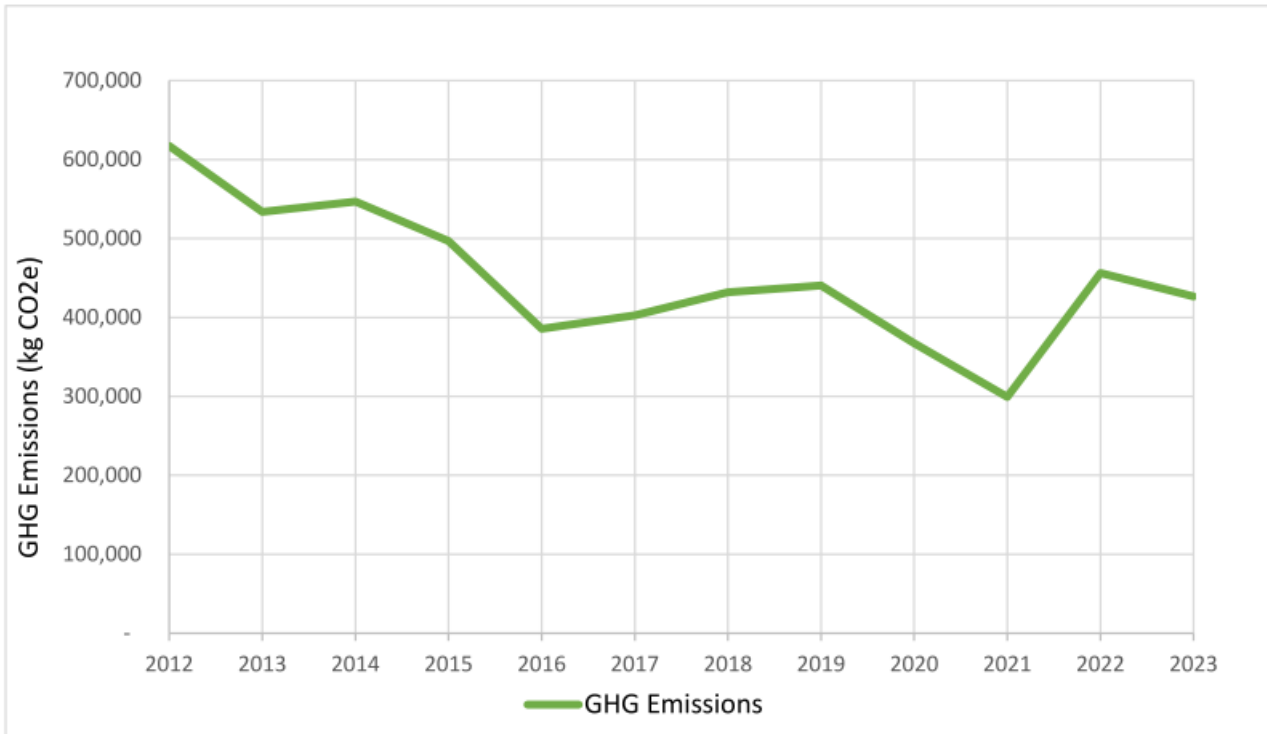


Figure 6: GHG Emissions (tonnes CO2e) from 2019 to 2023



7. CDM Energy Reduction Target

As referenced in Brock’s 2019 to 2023 CDM Plan, the total estimated energy savings measured from 2014 to 2018 was 3.9 per cent of total facility and streetlighting energy consumption. This supports their overall energy reduction target of 1 to 5 per cent every 5 years whereas GHG emissions are loosely following the ICSP target of 28 per cent reduction by 2015 and 65 per cent reduction by 2030, as noted in Section 4.4. Note that the ICSP targets included corporate waste and fleet vehicles which are not included in the CDM Plan.

As noted in Figure 5, a 2.9 per cent reduction in energy consumption occurred between 2019 and 2023 which is in line with the Township target; however, the impacts of COVID and transitioning to hybrid work models, where possible, makes it difficult to associate this energy savings with efficiencies or improvements.

From a GHG reporting perspective, with the provincial phase out of coal in the production of electricity, lead to a cleaner supply of electricity in 2012 to 2013. With the Township phasing out fuel oil as a heating source in it’s facilities by 2017, led to a significant GHG reduction. As noted in Figure 6, comparing the 2023 GHG emissions to the 2012 baseline shows a 31 per cent reduction by 2023. Although this is a significant reduction, it is not on pace to meet the 65 per cent reduction by 2030. Note that a 19 per cent GHG reduction occurred by 2015 which fell short of the 28 per cent reduction target. Again, fleet and waste are not included in these calculations.

8. Commitment to Energy Conservation

Brock Township is committed to energy conservation by embedding the culture and narrative across the corporation, striving to reduce energy consumption and its associated GHG emissions through efficient use of energy and resources, while still maintaining an efficient and effective level of service.

8.1 Energy Conservation and Demand Management: 2019 to 2023 Progress

Council approved the 2019 to 2023 Energy Conservation and Demand Management Plan in 2019. Since then, staff continue to implement technical measures and organizational improvements to enhance energy efficiency across facilities and program areas. The CDM Plan is intended to serve as a living, flexible Plan that is aligned with overarching strategic plans. It is updated every five years to show progress, setting future goals and objectives.

8.2 CDM Plan Organizational Measures: 2019 to 2023 Progress

Energy efficiency and conservation can be enhanced through organizational initiatives such as policy and procedural standard, behavioural change influenced by education, awareness, and engagement, as well as and technological initiatives such as equipment, automation, and programming. The 2019 to 2023 CDM Plan identified high level goals and objectives aimed at reducing energy consumption and GHG emissions. Figure 7 outlines the progress made and specific initiatives implemented as they relate to various organizational, behavioural, and technological initiatives made in advancing energy efficiency.

Figure 7: Review of 2019 to 2023 CDM Goals and Objectives outlining Progress

Goal 1: To reduce energy consumption and improve energy efficiency across the corporation	
<p>Objectives:</p> <p>To reduce the Township’s energy consumption by utilizing best practices to reduce our operating costs, energy consumption, and greenhouse gas emissions.</p> <p>To report energy performance annually, addressing changes and improvements.</p>	<p>Progress:</p> <ul style="list-style-type: none"> • Annual review of energy and GHG emission reduction opportunities undertaken as presented to Council through Report #2023-GG-005 and Report #2023-CLIM-001 • Consideration of energy conservation and GHG reductions in capital projects, as applicable, with directions to consultants to show progress and present cost benefits during project design. • Use a low carbon lens during the annual budgeting process with priority to reducing energy consumption

	<p>and lowering GHG emissions.</p> <ul style="list-style-type: none"> • Addition of a climate change section to Council reports. • Integrating the sustainability and climate lens into the decision-making, business planning, and budget processes.
<p>Goal 2: To maximize fiscal resources through direct and indirect energy savings as well as taking advantage of associated grants, rebates, and incentives.</p>	
<p>Objectives:</p> <p>To maximize fiscal resources through direct and indirect energy savings, including taking advantage of energy grants and incentives.</p>	<p>Progress:</p> <ul style="list-style-type: none"> • Natural Resources Canada (NRCan) Funding- EV charging stations 2022. • Investing in Canada Infrastructure Program (ICIP) grant of \$5.5 million Federal/Provincial funding was secured in 2021 as partially funding for the expansion and renovation of the Sunderland Arena. • Continue to work with the Region of Durham on collaborative funding opportunities, especially the NRCan funding for EV Chargers. • Continue to work with the local area municipalities and the Region of Durham on procurement and piggyback off their procurement for better price points such as the Region’s EV charger Award. • Continue to engage in incentives and funding program such as offerings by Enbridge Gas.
<p>Goal 3: To reduce greenhouse gas emissions and minimize environmental impacts associated with Township operations and services.</p>	
<p>Objectives:</p> <p>To demonstrate leadership and awareness within the Township of Brock community by creating a culture of energy</p>	<p>Progress:</p> <ul style="list-style-type: none"> • The addition of a Climate Change section added to Council Agenda and as a section to all Council reports. • NRCan Funding for the installation of two level 2 electric vehicle chargers for public use.

<p>conservation and sustainability.</p> <p>To build a culture of energy reduction by increasing awareness and empowering staff to integrate best practices and new technology into Township operations and services.</p>	<ul style="list-style-type: none"> • Annual reporting of Environmental Committee, changed to Climate Change Committee to showcase success. • Staff have engaged in various training and education sessions including Federation of Canadian Municipalities' webinars, Energy Star Portfolio Management training, etc. • Transitioning to EV ice resurfacer from traditional propane fueled ice resurfacer at Township arena. • Transitioning to REALice at the Foster Hewitt Memorial Arena is a technological advancement. • Brock Township recognized as a municipal leader at the launch of the Durham Greener Building event in Spring 2024.
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Since Council approved the 2019 to 2023 Energy Conservation and Demand Management Plan, staff have been actively implementing technical measures and organizational improvements to enhance energy efficiency across facilities and program areas. The CDM Plan is intended to serve as a living, flexible Plan that is aligned with broader, overarching strategic plans, which is updated every five years to show progress and set future goals and objectives.

8.3 Key Corporate Initiatives from 2019 to 2023

The following list highlights key initiatives implemented between 2019 and 2023 with associated external funding sources:

- a. Passing of Brock Township Climate Emergency Declaration in August 2021, as outlined in Section 4.5, which requires that a climate lens be used for all future decision making;
- b. In 2021, the Township was successful in obtaining \$5.5 million Federal/Provincial ICIP grant to partially fund the expansion and renovation of the Sunderland Arena which will include the use of an electric vehicle ice resurfacer. Council will decide later in 2024 whether to include the installation of REALice Technology in the facility retrofit;
- c. In 2022, NRCan Funding for Zero Emissions Vehicle Infrastructure Program Round 3 for up to 50 per cent funding for the installation of two level 2 public facility charging units at the Beaverton Fire Station;

- d. The January 23, 2023 Climate Progress Report to Council through [Report 2023-GG-005](#) outlined the energy conservation, environmental initiatives, and climate change projects that have taken place in Brock Township over the last 15 years;
- e. In Q1 2023, the Committee of the Whole agenda structure, including an amendment to the Council Report templates, was amended to include a "Climate Change Impact" section for reporting purposes;
- f. In 2023, the Township transitioned from the Community Environmental Committee to the Climate Committee;
- g. In 2023, the Township secured addition NRCan Funding for Zero Emissions Vehicle Infrastructure Program Round 4 for up to 50 per cent funding for the installation of two level 2 public facility charging units at the Sunderland Arena;
- h. In 2023, the Township started to transition its fleet over to electric vehicles (EV) with the purchased of an [EV ice resurfacer](#) for the Beaverton arena. The EV ice resurfacer will reduce air and noise pollution, improve energy efficiency, and enhance the overall ice maintenance process at the arenas.;
- i. In 2023, the Township budgeted and placed an order for a second electric vehicle ice resurfacer for 2024, to be used at the Cannington arena in the interim, then moving to the Sunderland arena upon completion of the construction;
- j. In 2023, the Township joined the [Durham Greener Buildings](#) program and has committed to sharing their annual energy consumption data through the Energy Start Portfolio Manager with the community. In February 2024, the Township of Brock received special recognition from the Region of Durham Greener Buildings program for the installation of the REALice Pilot program at the Foster Hewitt Memorial Community Centre and transition to an Electric Vehicle Ice Resurfacer;
- k. In September 2023, the REALice system was installed in Beaverton Arena, with a projected annual cost saving of \$10,000 per year;
- l. The November 2, 2023 Council [Report #2023-CLIM-001](#) provided the annual climate change update, outlining initiatives implemented or underway in 2023;
- m. Starting in 2023, the Township has gradually been switching over to battery operated hand tools for parks and arenas;
- n. LED lighting upgrade at Municipal Office,

- o. Replacement of roofs at Beaverton Health Centre, Animal Shelter, Sunderland Arena auditorium, Cannington Arena ice pad roof and Municipal Office roof with better quality materials, and where possible, lighter color materials to reduce heat absorption; and
- p. Replaced the boilers at Beaverton arena with more efficient units and removed the domestic hot water heater for the lobby area. Now using the heated water from the boilers to heat domestic hot water.

8.4 Renewable Infrastructure

The Township does not current have any solar photovoltaic arrays, geothermal systems, or battery back-up systems. Future consideration of renewable energy is always an option.

8.5 Proposed Energy Conservation and Demand Management: 2024 to 2029

The previous CDM goals and objectives were reviewed and refined to reflect corporate progress, evolution, and future directives. The corporate goals and objectives align with emergency climate declaration for improved energy efficiency and GHG reductions and align with corporate plan for improving energy performance, greater conservation, and associated energy savings. Moving forward with the Township’s recent momentum are the Goals and Objectives developed for the 2024 to 2029 timeframe

Figure 8: Conservation Demand Management Goals and Objective for 2024 to 2029

Goals	Objectives
<p>Goal 1 – Governance and Leadership: Formalize a corporate governance structure with clear lines of oversight and accountability for implementation of energy and GHG emissions reductions.</p>	<ul style="list-style-type: none"> • Include energy consumption and GHG emission reduction conversations in senior management committee meetings. • Include energy consumption and GHG emission reduction conversations in operational staff meetings to discuss operational efficiencies and improvements. • Implement energy performance and GHG emissions reduction objectives through plan alignment with Asset Management Plan, Strategic Plan, Budget Process, including lifecycle planning, financial planning, and budget processes.
<p>Goal 2 – Communication and Education: Enhance corporate energy awareness, education, and information.</p>	<ul style="list-style-type: none"> • Encourage staff to participate in training opportunities, seminars, committees, and capacity building opportunities for energy efficiency in their associated operational responsibilities. • Improve corporate communications and recognition of

	<p>achievement through communicating energy strategies, successes, and sharing of information/knowledge throughout the corporation.</p> <ul style="list-style-type: none"> • Share energy and water consumption data with facility operators and frontline staff to instill a behaviour of accountability while providing information and knowledge to reduce energy consumption and reduce GHG emissions. • Leverage available grant funding opportunities to support education and training opportunities.
<p>Goal 3 – Measurement: To continue to measure, monitor, and track energy consumption and GHG emissions across the corporation.</p>	<ul style="list-style-type: none"> • Annually report corporate energy performance to Council, including changes, improvements, operational modifications, and future plans. • To reduce the Township’s energy consumption by utilizing best practices to reduce our operating costs, energy consumption, and greenhouse gas emissions. • To build a culture of energy reduction by increasing awareness and empowering staff to integrate best practices and new technology into Township operations and services. • Install building automation systems (BAS) in all facilities as they are retrofitted or modified, where possible, providing a centralized, remote access to all facilities. • Ensure the update of key strategic plans, including but not limited to, the Asset Management Plan, Official Plan, and Strategic Plan embed energy conservation, climate mitigation, adaptation, and resilience into the document. • Continue to share annual energy consumption data with the Durham Greener Buildings program through Energy Star Portfolio Manager and showcase best practices.
<p>Goal 4 – Maximize Funding: To maximize fiscal resources through direct and indirect energy savings as well as taking advantage of associated grants, rebates, and incentives.</p>	<ul style="list-style-type: none"> • To maximize fiscal resources through direct and indirect energy savings, including taking advantage of external funding sources and incentives. • Collaborate with other municipalities and the Region on joint funding opportunities or training, where possible. • Improve corporate-wide awareness of available grants and funding opportunities to support energy, water, and GHG-related initiatives.

9. Conclusion

The Township of Brock is committed to reducing energy consumption and associated GHG emissions, as outlined in their climate emergency declaration. With a climate lens now in place and embedded into the reporting section in both the Council Agenda and its associated reporting template, it has created far more accountability, transparency, and the operationalization of energy consumption and GHG reductions. With this enhanced governance framework and decision-making lens in place, the Township will continue to embed energy management and climate change in future corporate plans, strategies, and capital work plans on the pathway to meeting the energy and GHG reduction targets.

Appendix A: Brock Township's Emergency Climate Declaration

On August 23, 2021, the Township of Brock declared a Climate Emergency, as follows:

WHEREAS the Township of Brock supports the position that scientific evidence supports the conclusion that human activities are greatly altering the conditions for life on earth; and,

WHEREAS climate change is a well documented issue that poses risks to the environmental, economic and the social well-being of communities across the world; and,

WHEREAS there is an urgent need for transformative action to reduce Green House Gas (GHG) emissions to limit global warming and avoid catastrophic climate change, which is leading to increased heat, drought, insect outbreaks, wildfires, flooding, extreme weather events and declining water supplies; and,

WHEREAS efforts across many levels of government and industry have yet to achieve the speed and scale necessary to achieve the targets of the Paris Agreement to limit global average temperature increase to well below 2 degrees Celsius; and,

WHEREAS climate change will impact human health due to extreme weather, temperature, and vector-borne diseases; and,

WHEREAS the health impacts on those most susceptible or vulnerable will be greatly increased such as children, seniors, those experiencing economic or social barriers such as isolation and those with disabilities or both; and,

WHEREAS the options for reducing GHG provides opportunities to improve human and ecological health, social inequity, and economic diversity; and,

WHEREAS the Township of Brock participated in the Region led development of the community climate action plan along with other municipalities within Durham Region to guide the transition to a low carbon, climate resilient Region while realizing significant economic benefits including household cost savings and job creation; and,

WHEREAS Brock Township can join the over 500 Canadian municipalities who have declared a climate emergency and are implementing programs to reduce their community's contributions to global carbon emissions.

BE IT THEREFORE RESOLVED THAT the Township of Brock officially declare a climate emergency for the purpose of naming and deepening our commitment to the protection of our economy, ecosystems, and communities from the impacts of climate change; and,

THAT the Township of Brock officially declare a climate emergency for the purpose of expressing our commitment to reduce GHG emissions across the whole Township, both within the Township's control and those who consider Brock to be their community; and,

THAT projects that will help achieve GHG reductions be considered a priority during budget discussions; and,

THAT the Township makes sustainability and climate action a strategic lens through which we view and evaluate all Brock decisions through such activities as the creation of the new strategic plan for the incoming Council in 2022; and,

THAT sustainability and climate action be considered as part of the definition of a "healthy community" and form a fundamental premise for policy directions in the updated Official Plan review study process currently taking place; and,

THAT staff ensure the Township of Brock, Scugog and Uxbridge Integrated Community Sustainability Plan is utilized as a platform for public engagement and community collaboration to respond to this emergency and if possible that the plan be refreshed; and,

THAT meaningful climate action build on the support of the community and in respect of Indigenous Peoples' human rights and that Traditional Ecological Knowledge be applied where possible; and,

THAT the Township continues to demonstrate leadership and commitment to economic, social, and environmental sustainability.