




2019

SUSTAINABILITY ANNUAL REPORT



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Introduction

The Town of Whitby continues to implement the Corporate Sustainability Plan. The plan outlines the sustainability goals for the corporation and is focused on understanding the challenges and opportunities the entire community faces today.

The annual report follows the One Living Planning Framework. The ten principles guide the Town of Whitby in its efforts to meet its overall vision of the Town of Whitby being a healthy, sustainable and complete community.

In 2019, the Town of Whitby saw a busy year for sustainability. Key highlights include:

- Declaration of a climate change emergency
- Council approval of the Durham Community Energy Plan with a target to reduce greenhouse gas emissions by 80 per cent by 2050 across the community
- A number of tree plantings with support from Whitby volunteers
- The installation of the first municipally placed bee hive on the roof of the Whitby Municipal Building

It is anticipated that 2020 will further Whitby's journey to sustainability with some of the priority initiatives including:

- Corporate Energy and Emissions Reduction Plan
- Launch of the Whitby Green Standard
- The creation of a Whitby Nature Garden
- The initiation of Whitby's first climate change plan

One Planet Living

This report follows the One Planet Living Framework; this international framework consists of ten simple principles, detailed goals and guidance to help ensure that the Town of Whitby advances all aspects of social, environmental and economic sustainability.



Health and Happiness

Encouraging active, social, meaningful lives to promote good health and wellbeing



Equity and local economy

Creating safe, equitable places to live and work, which support local prosperity and international fair trade



Culture and community

Nurturing local identity and heritage, empowering communities and promoting a culture of sustainable living



Land and Nature

Protecting and restoring land and marine systems for the benefit of people and wildlife



Sustainable water

Using water efficiently, protecting local water resources and reducing flooding and drought



Local and sustainable food

Promoting sustainable, humane farming and healthy diets which are high in local, seasonal organic food and vegetable protein



Travel and transport

Reducing the need to travel, encouraging walking, cycling and low carbon transport



Materials and products

Using materials from sustainable sources and promoting products which help people reduce consumption



Zero waste

Reducing consumption, reusing and recycling to achieve zero waste and zero pollution



Zero carbon energy

Making buildings and manufacturing energy-efficient and supplying all energy with renewables



CULTURE AND COMMUNITY

Nurturing local identity and heritage, empowering communities and promoting a culture of sustainable living.

In 2008, Whitby Council approved the establishment of a Corporate Sustainability Team and a Sustainability Advisory Committee for the Town of Whitby. Both groups were formed to provide advisory roles.

2019 INITIATIVES

Community

Whitby Sustainability Advisory Committee

The Whitby Sustainability Advisory Committee (WSAC) is a community-based committee of Council whose role is to promote sustainability, support environmental management, and respond to climate change.

In 2019, WSAC had a busy year; they established a four-year work plan and led the Town's Climate Change Declaration and Earth Day Downtown Cleanup.

Climate Change Declaration

The Town of Whitby's Climate Change declaration was brought forward to Council by the WSAC. Their proclamation to Council highlighted the significant threat climate change poses to both the current and future social, economic, and environmental well-being of the community. Their efforts resulted in Council formally declaring Climate Change an Emergency, and recognizing the immediate need to take action to drastically reduce greenhouse gas

emissions and ensure the community is resilient.

Earth Day Clean-Up

In conjunction with Earth Week each year, the WSAC and Downtown Whitby Development Steering Committee co-hosted the Downtown Whitby Spring cleanup. The event welcomes residents and local business owners to help clean up the downtown area.



Youth Challenge International (YCI)

In 2019, the Town formally supported YCI's "Innovate MY Future" initiative and served as the Durham host of the program. "Innovate MY Future" offers

Canadian youth the opportunity to take action on local climate issues and make a real difference in their communities. Whitby's support has enabled two Durham based youth teams to form and strive to make a difference in the community. The two YCI teams are:

- **Sustainable Durham**
Sustainable Durham educates Durham community members about voting and climate change in the region. Through promoting good voting practices, sharing waste management tips, engaging the community at local parks and green spaces cleanup events, they are committed to empowering individuals to make changes in their daily lives to reduce waste and vote responsibly on waste mitigation policies.

- **Catalysts of Change**
The Catalysts of Change team are striving to promote waste reduction and energy conservation in restaurants. They hope to work with local business owners and managers and provide them with support in finding solutions to food waste.



The Youth Challenge International Team Sustainable Durham meets with Whitby Sustainability Staff

Corporate

Second Nature

In 2019, the Corporate Sustainability Team delivered the "Second Nature" sustainability rewards program. Second Nature encourages staff to embrace a more enriched lifestyle and encourages environmental, social and economically sound choices at work and at home.

Corporate Sustainability Team

The Corporate Sustainability Team is an integrated team of departmental representatives that ensure practices within the corporate structure embrace the principles of sustainability and help

lead the implementation of the Town's Corporate Sustainability Plan. In 2019, the team identified three working priorities:

- Corporate Waste Reduction
- Increased awareness of electric vehicles

Development of a corporate green building policy.



LAND AND NATURE

Protecting and restoring land and marine systems for the benefit of people and wildlife.

2019 INITIATIVES

Community

Intrepid Park Community Tree Planting

On Friday, June 14, more than 300 trees were planted by volunteers as part of the Highway of Heroes Living Tribute to honour the Canadian men and women who have served our country.

Rosedale Park Community Tree Planting (\$)

The Town of Whitby led an event that saw volunteer's plant 400 new trees with support of a grant from TD Friends of the Environment.

Ceremonial Tree Planting

The Town of Whitby hosted ceremonial tree plantings for former Whitby Mayors Jim Gartshore, Tom Edwards as well as Community Marketing Services Commissioner, Peter LeBel. Forestry in the Classroom.



The Town of Whitby supports the Forestry in the Classroom Program led by Forests Ontario. Sustainability staff from the Town facilitated a 1-hour introduction lesson on Tree ID and the Importance of Trees at Donald A. Wilson Secondary School.

Pollinator Habitat Expansion

As a Bee City of Canada, the Town of Whitby is committed to increasing natural meadow habitat to support the survival of native pollinators. In 2019 this included:

- 1,355 square meters of meadow as a part of the Thickson Road Parking Project,
- 2,800 square meters of meadow at Jeffery Park,
- A newly created pond and wetland in Rosedale Park.

Corporate

Staff Tree Planting

Whitby staff participated in a Tree Planting Event in October 2019. This lunchtime tree planting session was hosted at Bradley Park where staff members from across the municipality helped to plant approximately 40 trees.



Town staff plant 40 trees on their lunch break in Bradley Park

Werden's Plan

In 2019, the Werden's Plan Neighbourhood Heritage Conservation District (HCD) was approved and is now in place. The plan is a commitment between the Town of Whitby and property owners in Werden's Plan Neighbourhood to preserve the neighbourhood's small-town historic character.

The plan serves as a guide to managing physical change to the neighbourhood

over the long term. The plan includes a number of policies to protect and preserve trees on both public and private property including the preservation of mature trees, direction for co-ordinating the renewal of the street tree canopy, and ensuring any replanting is completed using a variety of indigenous shade trees.

Application to be a Tree City of the World
The Tree Cities of the World programme is an international effort to recognize cities and towns committed to ensuring that their urban forests and trees are properly maintained, sustainably managed, and duly celebrated.

The Town of Whitby has submitted an application demonstrating how it meets the five standards of the program:

- Standard 1 - Establish Responsibility
- Standard 2 - Set the Rules
- Standard 3 - Know What We Have
- Standard 4 - Allocated Resources
- Standard 5 - Celebrate Achievements

The Town received notification regarding acceptance as a Tree City of the World in early 2020.

2020 INITIATIVES

Community

LEAF Backyard Tree Planting Program



In 2020, the Town of Whitby will be offering subsidized Backyard Tree Planting to property owners of Whitby. This program, delivered by the not for profit organization LEAF, will mirror the offerings available in Ajax, Toronto and York Region. This program will be delivered in partnership with the Region of Durham. It is anticipated this program will be announced in spring 2020 with full implementation in the fall.

Corporate

Tree Protection Guidelines

The proposed Town of Whitby Tree Protection Guidelines are being revised and will promote the education, awareness and investment in the protection of the Town's urban tree canopy for residents, staff and the development industry.

The Guidelines will be updated and expanded to address previous gaps in information and to provide a comprehensive reference source of general information, best practices and requirements supporting the protection of existing trees in the Town of Whitby. The goal of the Guidelines is to minimize damage and removals of the Town's existing urban tree canopy and woodlands. New information reflects updates to policy and legislation, available

information and asset-related data, as well as the consideration of existing trees in development and capital works. The Tree Protection Guidelines provide a comprehensive and convenient reference source for staff to use when addressing the increasingly complex and multi-faceted tree-related inquiries that are regularly received.

Urban Forest Management Plan

In 2020, the Town of Whitby will be developing its first Urban Forest Management Plan.

The Plan will provide recommendations to improving tree health and diversity, increasing tree cover, coping with climate change, reducing risk to the public, and increasing the wide-ranging benefits provided by a sustainable, healthy, and safe urban forest.

Whitby Green Standard

The Whitby Green Standard is born of the Town's vision for a healthy, sustainable and complete community as enshrined in the Official Plan. It is a tool to assist the Town in implementing and achieving the vision for a sustainable community through the development planning process. The Whitby Green Standard defines the minimum and stretch sustainability expectations for all new development and re-development in Whitby. The standards will be used as a component of the development review process to assess the sustainability of new development. It is anticipated that the standards will be completed in mid-2020.

FUNDING (\$)

Species at Risk (Unsuccessful)

In March 2019, the Town submitted a grant application to the Ministry of Environment, Conservation and Parks under the Species at Risk Stewardship Program to support the creation of Brown Bat habitat. This application included funding to support:

- Community tree planting (approximately 6,000 trees)
- Community Build a Bat Box workshop
- Educational material on Whitby Species at Risk
- Interpretive signage
- Community monitoring program

In December 2019, the Town was notified that they were unsuccessful in their application due to an oversubscription in the program.

Using water efficiently, protecting local water resources, reducing flooding and drought.

2019 INITIATIVES

Community

Michael Boulevard Flood Mitigation Assessment (\$)

This project is funded by the National Disaster Mitigation Program to protect 155 houses from a 100-year flooding risk. This project will review past recommendations, find a new socio-economically acceptable solution and complete a detailed design of the recommended solutions.

Bridge/Culvert Master Plan – Hydraulic Capacity Assessments

This project assesses the Town’s culverts and bridges compliance with the Town’s current engineering standards, flood resiliency, assessment of climate change’s impacts, and potential future capital/mitigation expenditure prioritization.

Update of a 1988 Lynde Creek Master Drainage Plan (\$)

This project is to develop environmentally sustainable watershed guidance for management of the creek watershed and stream corridors in terms of flows, erosion, and flooding and to provide an

opportunity for retrofitting stormwater systems, wetlands, and land development in the watershed. This project is funded by the Town and Central Lake Conservation Authority (CLOCA).

Corbett Creek Master Drainage Plan & Floodplain Mapping (\$)

This project is to develop environmentally sustainable watershed guidelines for the management of the creek watershed, stream corridors, erosion control plan, flood mitigation plan, water quality control and natural resources management, including wetlands and naturally sensitive areas and the impacts of climate change on drainage infrastructures.

Jeffery Park Upgrades

The newly developed splash pad at Jeffery park encompasses low impact development technology. The greywater from the splash pad is treated via a bioswale instead of being discharged into regional storm or sanitary systems.

2020 INITIATIVES

Community

Town-wide urban flooding study (\$)

This project will assess the hydraulic capacity of existing municipal storm sewers and overland flow routes to assess compliance with the Town's current engineering standards, 100-year flood resiliency, assessment of climate change impacts on the existing system and potential future capital/mitigation expenditure prioritization. This study will identify areas that could be subject to surface and basement flooding and will compile an inventory of flood-vulnerable areas that the Town could prioritize in a flood mitigation program.

Lake Ontario Shoreline Erosion and Protecting Critical Infrastructure (\$)

This project will assess the 100-year flood hazard risk along the Town's Lake Ontario shoreline, inundation zone and erosion risk. The project will enable the informed risk assessment of existing public and private lands and infrastructure along the Town's waterfront.

FUNDING (\$)

National Disaster Mitigation Program

In 2019, the Town of Whitby received notification of grant funding from the National Disaster Mitigation Program to support two projects including:

- **Town-Wide Urban Flood Study**

This project will assess existing municipal storm sewers and overland flow routes to assess compliance with the Town of Whitby's current engineering standards and flood conveyance resiliency. It includes an assessment of climate change impacts on the existing system and potential future capital/mitigation expenditure prioritization.

- **Corbett Creek Floodplain Mapping and Master Drainage Study**

This project will update the 1990 floodplain mapping and develop a master drainage plan for the Corbett Creek Watershed.



LOCAL AND SUSTAINABLE FOOD

Promoting sustainable, humane farming and healthy diets, which are high in local, seasonal, organic food and vegetable protein.

2019 INITIATIVES

Community

Pollinators

In 2018, Whitby was designated the 10th Bee City in Canada and the first in Durham Region. The Bee City designation is awarded to municipalities that make a declaration to protect pollinators and their habitat through action and education. In 2019, the Town undertook a number of actions to maintain the Bee City status.



Pollinator Workshop (\$)

In support of the installation of the beehive, the Town hosted a “Powerful Pollinators” workshop at a Culture in the Square event in August 2019. This workshop increased awareness of the importance of native pollinators and the positive effect they have on the environment.



Honey Extraction Workshop (\$)

On November 21, the Town hosted a honey extraction workshop at the Station Gallery. This workshop led by Alvéole demonstrated the process for extracting honey from the hive, and each participant was able to take home a jar! Both sessions were generously funded by TD Friends of the Environment.

Volunteers at the honey extraction workshop

Education on Our Native Pollinators (\$)

Whitby hosts a number of initiatives undertaken to support native pollinator populations. This includes being a member of the Mayor’s Monarch Pledge, naturalization of a number of green

spaces, native plant giveaways (milkweed and bee balm) at community events, and the maintenance of Whitby's pollinator

gardens located at Town Hall and along the waterfront.

Corporate

Bee Hive on Town Hall Roof (\$)
In June 2019, The Town of Whitby installed an urban beehive on the rooftop of Town Hall as part of its commitment to being a "Bee City" and protecting local pollinators. The hive was installed during Pollinator Week (June 17 to 23), making Whitby one of the first municipalities in Canada to own a beehive.

Honey Bee Staff Education Session (\$)
Partners Alveole provided a lunchtime education session to staff. The session

helped inform of the lifecycle of honey bees. This session was generously funded by TD Friends of the Environment.

Community Supported Agriculture (CSA)
Town staff, through paid registration, participated in a local community-supported agriculture program. Each week, from June through to October, participants received weekly deliveries of fresh and local fruits and vegetables.

2020 INITIATIVES

Community

Community Gardens
In January 2020, the Town will be hosting "How-To" sessions to encourage the startup of community gardens within Whitby.

FUNDING (\$)

TD Friends of the Environment Fund
In both 2018 and 2019, the Town of Whitby received funding to support the installation of the Urban Bee Hive as well as hold the Education of Our Native Pollinator sessions.

Corporate

Bee Hive on Town Hall Roof (\$)
The Town will once again be installing an urban beehive on the rooftop of Town Hall as part of its commitment to being a "Bee City" and protecting local pollinators.



TRAVEL & TRANSPORT

Reducing the need to travel, encouraging walking, cycling and low-carbon transport.

2019 INITIATIVES

Community

Active Transportation Network

Whitby's active transportation network continues to expand. In 2019, the Rossland Road multi-use pathway was constructed between Lake Ridge Road and the Otter Creek Trail.

Residents of the White Oaks complex also received a new connection to the Michael Boulevard network and GO station via a new pedestrian bridge and park redevelopment. A new parking area at the south end of Thickson Road was also constructed to encourage greater recreational activity along the Waterfront Trail.

Family Bike Rides

The Whitby Public Library and Active Transportation staff hosted family bike rides. Efforts in cooperation with Whitby Library resulted in receiving the Provincial Library Innovation Award.

Corporate

Bike to Work

In 2019, the Transportation and Parking Services group led initiatives in cooperation with SmartCommute Durham to encourage carpooling and active transportation by employees. The Bike Month initiatives were particularly well received with strong community and workplace participation.

2020 INITIATIVES

Community

EV Charging Stations (\$)

In September 2019, the Town of Whitby partnered with the Region of Durham, Town of Ajax, City of Oshawa, Oshawa Public Utility Corporation, and the Municipality of Clarington in an application to Natural Resources Canada, to support 50% of the cost to purchase and install charging infrastructure at a number of locations across the Region.

The funding application was approved and the Town of Whitby will move ahead with installing charging stations at the following locations for public and employee use:

- Brooklin Community Centre & Library
- Iroquois Park Sports Centre
- McKinney Centre
- Centennial Building/1855 Accelerator
- Whitby Civic Recreation Complex

Corporate

Fleet Master Plan (\$)

The Town of Whitby will be completing a Fleet Strategic Master Plan to address long term fleet needs in order to deliver services to the community. The final plan will highlight actions, strategies, and

This program supports the implementation of the Durham Community Energy Plan specifically Program #4 Electric Vehicle Joint Venture.

Active Transportation

The Active Transportation Plan is expected to be adopted in 2020. Staff are excited to continue to encourage Active Transportation in the community and to continue building the active transportation network.

The Plan could include a new multi-use Path on Brock Street, an extension of the Multi-Use Path on Rossland Road, and an expansion of the cycling count program to monitor the number of cyclists using the new path.

It is also anticipated that approximately 2.8 km of new off-road trails located in the Town of Whitby's parks and greenspace will be constructed in 2020.

benchmarks that can be implemented to support the Town's current needs with the flexibility and resilience to adapt to changes in future growth in the Town of Whitby. Considerations will include emerging technologies, zero-emission vehicles, and climate change.

FUNDING (\$)

Natural Resources Canada- Energy Program (energy audits, staffing support, fleet analysis)

In September 2019, the Town of Whitby applied to the Natural Resources Canada Energy Manager Program to support:

- Facility Energy Audits
- Fleet Master Plan
- Energy Manager Plan

The Town was successful in its application to the program and will be moving forward with completing these three initiatives in 2020.



MATERIALS AND PRODUCTS

Using materials from sustainable sources and promoting products which help people reduce consumption.

2019 INITIATIVES

Corporate

55+ Advisory Committee



The 2019 Seniors Christmas Party theme was “Eco-Conscious” and members of the Seniors Club brought their own mugs to the event

The 55+ Advisory Committee, with support from Town staff, have created a

sustainability subcommittee to reduce and eliminate single-use plastics as well as implement other sustainable actions.

Their work was put in practice at the 55+ Christmas Lunch (Dec 12) and the 55+ Holiday Cheer event (Dec 11). Everyone who participated brought their own mug and all supplies were made from either recyclable or compostable materials. All decorations were made from recycled materials and forestry provided over tree clippings. Prizes included re-usable stainless steel straws.

2020 INITIATIVES

Community

Elimination of Single-Use Plastics

In September 2019, Council requested that staff develop a Plan to phase-out and eventually ban single-use plastics within the Town of Whitby. This Plan will be developed with support from the public,

local businesses and upper levels of government and will address items such as plastic bags, straws and plastic cutlery. It is anticipated this plan will be completed in the spring of 2020.



ZERO WASTE

Reducing consumption, reusing and recycling to achieve zero waste and zero pollution.

2019 INITIATIVES

Community

Community Cleanups

In addition to the Town supported cleanup events, over 600 volunteers helped clean the Town through community-led cleanup initiatives in 2019. The Town of Whitby provides bags, gloves and garbage collection to individuals, families and organizations who wanted to ensure Whitby is clean and green. Their efforts resulted in 617 bags of litter being removed from the community.

Compost Giveaway

On May 11, The Town of Whitby partnered with Durham Region to offer free compost to residents. Compost was provided at the Whitby Operations Centre and residents were able to fill up their bins for free as a thank you for using the Green Bin program all year round. 162 tonnes of compost were given out to over 950 visitors. Leftover compost was donated to the Ajax Whitby Community Garden.

Earth Week

Earth Week was celebrated across Whitby in 2019 through the completion of a number of volunteer community cleanup events.

Diversion Day

Diversion Day is a partnership event with the Region of Durham to provide residents with an opportunity to dispose of unwanted electronic waste, household hazardous waste as well as donate unwanted household items for reuse. The event resulted in the collection of 7 metric tonnes of household hazardous waste, 4 metric tonnes of electronic waste and 3 metric tonnes of household goods.

Waste Reduction Week

The Town of Whitby celebrated Waste Reduction week which took place on October 21 to 27 2019. Formally recognized through a Council proclamation the Town launched new tips to encourage waste reduction in the home.



Swap Day event hosted at Town Hall

Corporate

Swap Days

The Town hosted two Swap Day events for staff in 2019. Staff were invited to bring in gently used books, toys, games, sporting equipment, housewares and small appliances for donation. Staff were then able to browse the items and take what they wanted throughout the day. Items left at the end of the day were donated to a local charity.

Paperless Pay Slips

In 2019, the Human Resources department led an initiative to encourage staff to switch to digital pay stubs. Their efforts resulted in 580 staff members switching from paper to electronic. This switch reduced printer and paper consumption by 15,080 paystubs per year.

2020 INITIATIVES

Community

Community Cleanup Online Tool

The Town of Whitby is working on a tool to help make it easier for volunteers who want to adopt a Park, Road, or Trail, or schedule a one-time community cleanup. It is anticipated this tool will be launched in early 2020.

Compost Giveaway

Whitby's Public Works Department and the Region of Durham's Waste Management Department will be co-hosting the annual Compost Giveaway event on Saturday, May 9, 2020, from 8:00 a.m. to noon, rain or shine at Whitby's Operations Centre.

Corporate

Corporate Waste Reduction Strategy

In 2020 the Town will be kicking off the start of its first Corporate Waste Strategy. This work will guide the reduction of waste and help maximize recycling across Whitby's municipal facilities.



ZERO CARBON ENERGY

Making buildings and manufacturing energy-efficient and supplying all energy with renewables.

2019 INITIATIVES

Community



Climate Emergency Declaration

Members of WSAC and Fridays for Future after Council Declares Climate Change an Emergency

In June 2019, upon the recommendation of the Whitby Sustainability Advisory Committee, Town Council declared climate change an emergency.

This declaration is a call to action. It helps the Town of Whitby identify the urgency, and strengthen the commitment to meet the greenhouse gas emissions reduction target of 80% by the year 2050 as well as increase the ways in which Whitby can adapt to short term climate change impacts.

Council unanimously endorsed the proposed motion and became the first municipality in Durham Region to declare climate change an emergency. This has resulted in a number of actions including:

- A department restructure that moved Sustainability and Climate Change from the Planning & Development Department to Strategic Initiatives in the Office of the Chief Administrative Officer.
- New requirement for all Whitby Staff Council Reports identifying how sustainability and climate change is being addressed or considered by the matter being reported.
- Inclusion of the climate change plan as an Action Item in the 2020-2022 Business Plan.

Durham Community Energy Plan & GHG Target

The Durham Community Energy Plan (DCEP) is a joint initiative led by the Region of Durham, alongside all eight local municipalities and five utilities. The purpose of this plan is to:

“Seek to accelerate the transition to a clean energy economy in Durham, while simultaneously achieving multiple economic, environmental and social benefits.”

The DCEP includes the projections of what energy would look like in the community to the year 2050. These projections are based on three scenarios: Business as Planned (BAP); Business as Usual (BAU); and the Low Carbon Pathway (LCP).

In May 2019, Whitby Council formally endorsed the final plan with support to follow the Low Carbon Pathway scenario in the DCEP as the preferred energy scenario for implementation. In addition, the Town also endorsed a new target of reducing greenhouse gas emissions by 80% by the year 2050.

In order to achieve this target, the Town will be looking at opportunities individually and in partnership with stakeholders across the Region of Durham to:

- improve energy efficiency;
- increase energy security and;
- reduce greenhouse gas emissions.

Programs to support the plan's implementation for the next five years include:

1. Durham Green Standard:
Enhanced energy performance for new buildings
2. Durham Deep Retrofit Program:
Transforming existing buildings
3. Renewable Energy Co-operative:
Stimulating Local Renewable Energy Projects
4. Electric Vehicle Joint Venture:
Installing EV chargers at municipal facilities
5. Education and Outreach Program
Engaging the Community

6. Co-ordinating Land Use Policies: Sustainable Growth

Climate Ensemble Model

In 2019, the Natural Environment Climate Change Collaborative (which the Town of Whitby is a member), received funding from the Greenbelt Foundation to develop a climate change model that predicts climate change scenarios likely to occur in the community over the next century. This model will help the Town evaluate the risks that climate change poses on the community, and inform the Climate Change Plan in 2020.

CDP Global Climate Reporting Scorecard

The Carbon Disclosure Project (CDP) is a not-for-profit charity that runs the global disclosure system for investors, companies, cities, states and regions to manage their environmental impacts.

The annual evaluation report is used as a tool for gaining an overview of environmental performance and how the Town's response can be improved in the future. Reporting through CDP meets annual reporting requirements as a member of the Global Covenant of Mayors.

2019 was the first reporting year for the Town of Whitby. The report indicates that Whitby currently scored a "**C - Awareness**". "**C**" grade is the North American average and indicates an awareness level". It is anticipated that this scoring will be improved in 2020 as there are a number of climate actions scheduled to take place. The full Carbon Disclosure Project report is available online at whitby.ca/sustainability

Corporate

Global Covenant of Mayors



The Town of Whitby joined the Global Covenant of Mayors (GCoM) in September 2019.

GCoM is a global network of more than 10,000 cities spanning 139 countries around the world. These local governments all recognize that ambitious climate initiatives in their communities need to be taken in order to keep global temperatures from rising more than 1.5 degrees.

Whitby's participation in the Global Covenant of Mayors commits the community and Town to the following milestones:

- Develop greenhouse gas (GHG) emissions inventory
- Assess climate risks and vulnerabilities of your city
- Define ambitious climate mitigation, resilience and energy targets
- Create full climate action plans

As a GCoM member, the Town will be able to continue to monitor and track the progress on a global stage ensuring the Town's climate actions have a meaningful impact and continue to implement climate change action through its various plans

For more information about the Global Covenant of Mayors please visit: globalcovenantofmayors.org

Clean Air Partnership Declaration



Clean Air Partnership The Clean Air Council (CAC) led by the Clean Air Partnership (CAP), is a network of municipalities and health units from across the GTHA who work collaboratively on the development and implementation of clean air and climate change mitigation and adaptation actions.

Whitby Council endorsed 2019-2023 CAC Declaration which highlights seven priority action areas that CAC members will work together on to advance sustainable, livable communities and develop healthy, low carbon, resilient and sustainable communities. These include:

- Continuous improvement and progress reporting related to the implementation of energy conservation, green procurement, green fleets, community energy, and climate mitigation and resilience plans.
- Advancing air pollution, low carbon and resilience financial mechanisms especially as it relates to expanding and scaling up proven projects, programs and mechanisms and leveraging intergovernmental and private sector opportunities.
- Scaling-up low carbon buildings through the uptake and transfer of green development standards,

energy efficiency retrofits, air quality improvements, resilient building measures, and building energy disclosure and labelling.

- Strengthening municipal capacity to consider and develop value propositions and business cases for green infrastructure.
- Maximizing transportation air pollution and carbon reductions through the increased uptake of electric vehicles, implementation of active transportation/complete streets/vision zero plans, and integrated transportation and land use planning.
- Incorporating climate change mitigation and resilience considerations into municipal decision making.
- Working collaboratively with a broadening stakeholder base to increase the understanding of the links between climate action, public health, community livability and financial sustainability.

Civic Recreation Complex – New Dehumidification Unit

In 2019 the Town replaced the old natural gas-fired makeup air unit with a new, more efficient unit. This unit heats the pool deck using hot water heating supplied by the waste heat of the combined heat and power units that are generating electricity used in the building.

Lighting Retrofits

The Town continued to convert inefficient lighting fixtures to LED fixtures within its facilities saving the Town an additional 500,000 kWh in 2019.

Park Upgrades

In 2019, Pringle Creek Park underwent upgrades through the work, the Town replaced the existing metal halide baseball field lighting system with high efficiency LED fixtures.

Jeffery Park as part of the newly developed splash pad has now incorporated renewable solar energy to help power the water equipment.

2020 INITIATIVES

Community

Home Retrofit Program

The Town of Whitby is exploring ways to develop a “Deep Retrofit Program” as identified within the Durham Community Energy Plan. This program will help stimulate energy retrofits of existing residential buildings. The Town of Whitby is working with the Region of Durham and the Carbon Advancement Support Centre, which is a group of municipalities led by the Clean Air Partnership who are working together to develop financial tools to help implement Home Retrofit Programs within the community. It is anticipated that a draft program will be completed by the end of 2020.

Whitby Climate Change Plan

In the fall of 2020, the Town will be initiating a three-year project to develop

both a climate adaptation and climate mitigation plan for the community. It is anticipated this project will be completed in the fall of 2022.



Staff from Pickering, Durham Region, Oshawa and Whitby collaborating on the home retrofit program.

Corporate

Sustainable Corporate Building Policy

As an action identified as a priority for the Corporate Sustainability Team, Town staff will research, review and provide a recommendation for adopting a policy that ensures all new municipal facilities are built to a sustainable standard.

Corporate Energy and Emissions Reduction Plan (\$)

In 2020, the Town will be developing an updated Corporate Energy and Emissions Reduction Plan. This plan will highlight how the Corporation can reduce energy consumption and greenhouse gas emissions associated with the operation of the Town's facilities, fleet and street lighting as well as corporate waste services for the next five years.

Building Automated System (BAS)

BAS will be installed in several Town facilities. These systems monitor and control a building's heating, cooling,

ventilation, lighting, and other systems.

The core functions of a BAS are to control the building's environment, operate systems according to occupancy and energy demand, and monitor and correct systems performance, and to alert or sound alarms when needed.

Sub Metering

The Town of Whitby will be installing sub-meters in several Town facilities. These meters will provide real-time monitoring of a gas, electricity and water equipment, panel, and building level and will provide an in-depth overview of energy consumption in the facilities.

Energy Management Software (\$)

In 2020, the Town will be implementing a new Energy Management Software. This software will provide automatic utility bill tracking, weather normalization, and benchmarking for comparison of energy use in all buildings and services.

FUNDING (\$)

Natural Resources Canada- Energy Program (energy audits, staffing support, fleet analysis)

In September 2019, the Town of Whitby applied to the Natural Resources Canada Energy Manager Program to support:

- Facility Energy Audits
- Fleet Master Plan
- Energy Manager Plan

The Town was informed of the success of the application and in 2020 will be moving forward with completing these three initiatives.

Greenhouse Gas & Energy Consumption

Town of Whitby Buildings

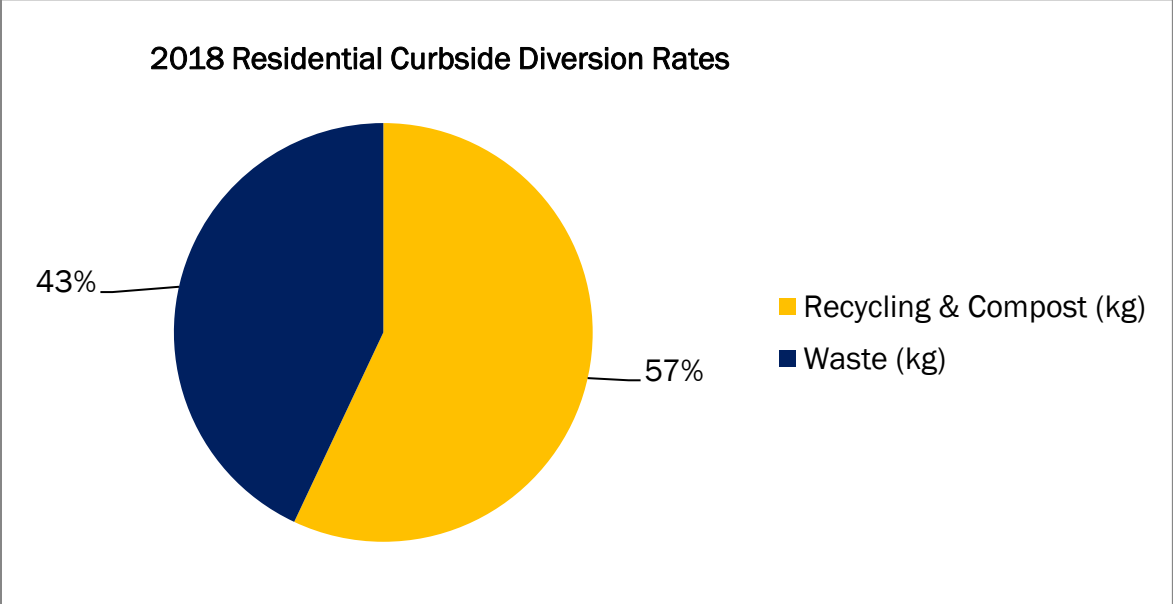
Corporate Buildings Energy Consumption

Energy Type	ekWh 2012	ekWh 2017	ekWh 2018	Difference between 2012 and 2018	%
Electricity	15,518,808	14,487,532	13,329,812	2,188,996	-14%
Natural Gas	13,581,738	15,296,880	17,530,176	3,948,437	29%
Total	29,100,546	29,784,412	30,859,988	1,759,442	6%

Corporate Buildings

GHG (tCO ₂) 2012	GHG (tCO ₂) 2017	GHG (tCO ₂) 2018	Change 2017-2018	%	Change 2012-2018	%
3,921	3,061	3,358	297 tCO ₂	+10%	- 563.10 tCO ₂	-14%

Residential Waste Diversion



2014-2018 Residential Curbside Diversion Rates

Year	Total Waste Generated	Total Waste Diverted	Curbside Diversion
2014	44,610	27,854	62%
2015	40,551	23,919	59%
2016	39,398	22,915	58%
2017	39,124	22,639	58%
2018	38,247	21,740	57%

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