



Community Sustainability Annual Report

City of Charlottetown, PEI

May 2018

**CHARLOTTETOWN**
Great things happen here.


the
inspired
city

Environment & Sustainability Standing Committee



Vice-Chair - Councillor Jason Coady



Member at Large - Kevin Ramsay

Letter from Committee

Dear residents,

The City of Charlottetown released an updated version of the original 2010 Integrated Community Sustainability Plan (ICSP) in March of 2017. This updated version is a fresh take on where the City is now in regards to sustainability, and what we hope to accomplish in the coming years. Without pause, the Charlottetown community and our staff have been working steadily toward achieving the goals laid out in the ICSP. We are pleased to share this Annual Report listing the progress that has been made in just this past year.

Our work is driven by a love for the environment that sustains us, and a desire to meet the needs and values of the Charlottetown community. Through consultations and collaborations we strive to work with the public and various partners to achieve common objectives with maximum efficiency. We are so thankful for the staff and community members who have contributed to the numerous initiatives laid out in this Annual Report. It would be much quicker read without all of their hard work.

We recognize that the City of Charlottetown has a major role to play in PEI's ability to reduce its environmental impact, and we strive to demonstrate leadership in our commitment to reduce Greenhouse Gas (GHG) emissions that contribute to climate change. We will continue to address environmental, social, economic, and cultural challenges with innovative solutions, and spread awareness of issues and solutions through outreach initiatives related to sustainability.

Thank you for always inspiring us to do our best for you, the people of Charlottetown, and our planet.

Kindest regards,

Mike Duffy
Deputy Mayor – City of Charlottetown
Chair – Environment & Sustainability Standing Committee



Staff



Ramona Doyle - Sustainability Officer

Ramona is a graduate of the University of Victoria and has a degree in Environmental Studies & Anthropology. She is currently enrolled as a first year student in the Masters of Environment and Business program at the University of Waterloo. She has worked with the City of Charlottetown since 2010. In her first position as Utility Projects Officer she worked with the Charlottetown Water & Sewer Utility on water conservation, wellfield protection, metering and leak detection. In 2014, she took on the role of Sustainability Officer where she works on a variety of projects that aim to increase the resilience of the City Corporation as well as to promote and support sustainable action in the community. Current projects include transit, energy efficiency, climate change mitigation and adaption, urban watershed management, urban forestry, active transportation and community outreach & education.



Betty Pryor – Sustainability Projects Officer

Prior to working with the City of Charlottetown, Betty worked as part-time administrator for both the Community of Winsloe and the Resort Municipality. As part of the amalgamation process in 1995, Betty was hired by the City as a Technician II with the Water and Sewer Utility Department. In her technical role, Betty was involved with many aspects of the Utility including record management, estimate preparation and inspections.

Her technical training and experience qualified her to take on the role of Utility Projects Officer in 2014. This position focused primarily on water conservation related duties until February 2017 when the position became part of Environment and Sustainability. In addition to water conservation, Betty's work includes the Cosmetic Pesticide Bylaw, working with watershed groups, and promoting sustainability.



Jess Brown - Sustainability Outreach Coordinator

Jess Brown began her career with the City of Charlottetown in May 2016 after completing the Environmental Applied Science Technology program at Holland College. In 2013 Jess graduated from UPEI with a BA in Psychology and Environmental Studies. Her background in both human and environmental sciences created a great foundation for a position in community outreach with a focus on sustainability. The Integrated Community Sustainability Plan (ICSP) has served as an inspiration and guide for Jess's work with the City. Having a good general understanding of the vast framework of sustainability and its applications has helped Jess coordinate various initiatives on topics ranging from placemaking to pesticide education in the City of Charlottetown.



Matt McCarville – Community Energy Planner

Matt joined Charlottetown's staff as energy efficiency coordinator early in 2017. That fall he became community energy planner. He's working on a Community Energy and GHG Reduction Plan to transition Charlottetown to a clean energy economy.

Matt has worked for over a decade to help understand and solve energy-related problems like global warming, pollution and energy insecurity. A goal has been proposing clean renewable energy solutions across sectors that, if implemented, could improve energy efficiency significantly while providing affordable energy, jobs and economic development.

In 2011, Matt testified before a Parliament of Canada Senate Committee with a roadmap to convert Canada to clean renewables for all-sectors. He testified three times before PEI Legislative Committees responsible for Energy. His most recent testimony to the Province helped form the basis for the Committee's first recommendation to Legislature in 2016 to pursue 100% renewable energy for all purposes by 2050 at the latest.



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Introduction

In March of 2017 the City of Charlottetown released an updated version of the Integrated Community Sustainability Plan (ICSP). The process of updating the original ICSP was a great opportunity to reflect on the progress that has been made, consider what still needs to be done, and get a renewed sense of the community's priorities when it comes to sustainability.

The ICSP is a working document – a useful tool for managing short term actions on the path toward actualizing the community's sustainability goals and long-term vision. Each year we perform a cross-departmental review of the progress we have made towards the Goals and Actions listed in the ICSP and compile the results into a report. This helps us to be mindful of our daily efforts and how they are contributing to key objectives.

We continue to operate with the overarching principles of leadership, collaboration, innovation, and action at the forefront of our efforts to achieve the goals laid out in the ICSP. The ICSP goals are listed under the following themes:

Water • Energy • Transportation
Food • Healthy Economy
Infrastructure and the Build Environment
People and Places
Arts, Culture, and Heritage • Nature

We recognize the interconnected nature of each of the listed themes, and note that sustainable progress in any one theme often has a positive impact on others, benefiting the existing community and future generations.



WATER

Charlottetown residents indicated that access to clean, quality drinking water is of paramount concern for our sustainable future and partnerships that work to conserve and enhance our watersheds are key for success.

2017 progress toward achieving the Water Goals and Actions listed in the ICSP:

1. Continue public awareness campaigns to emphasize the importance of protecting and managing resources

Cosmetic Pesticides: The City of Charlottetown's Cosmetic Pesticide Bylaw came into effect in January 2017. The bylaw restricts the use of non-domestic cosmetic pesticides and was enacted as a precaution to significantly reduce the exposure of residents to chemicals that may pose a threat to human health and/or the environment. A number of online and printed resources were developed for Charlottetown residents with information on the bylaw and tips for how to keep their lawn healthy naturally. Demonstration plots with informative signage on alternative options to maintain a pesticide-free yard that pose no threat to people, pets, or the planet. These movable plots travelled from Victoria Park to West Royalty Community Center and Hillsborough Park. To promote natural lawns we provided 12x12 "This lawn & garden is pesticide free" signs were provided for residents to pick up at City Hall for free and display on their lawn. The promotion was to increase public awareness of the bylaw and why it is in place in a variety of ways with the ultimate goals of normalizing naturally healthy, resilient lawns and giving residents the information they need to make informed decisions about their lawn maintenance regime.

Water Conservation Campaign: The 2017 water conservation campaign during the water restriction period (June 1-September 30) included four 4'x8' signs in two highly visible locations in the City, radio ads during the dry period of July and August, and printed ads in local media (The Guardian and The Buzz). The campaign raised public awareness to reduce water consumption especially during the summer months when consumption can be, on average, up 20% higher.

The Pond Study: The Ellen's Creek Watershed Group in collaboration with the Holland College Environmental Applied Science Program conducted the "Ecological Health of Pond Life in Charlottetown" Project this year. Eleven ponds were included in the project with an assessment of invertebrates, surface water and sediment performed at each. The data is compiled and a report with recommendations is part of the project. Data on the health of the ponds provides insight as to what may be happening and what can be done to improve the health of Charlottetown's ponds to positively impact the brook trout population and the broad aquatic communities in Ellen's and Wright's Creek. It is an important step in the implementation of the Plan's recommendations.

2. Continue to offer incentive programs for water conservation

LIFT Program: The Low-income Financial and Technical (LIFT) Assistance Program was introduced this year in collaboration with efficiencyPEI's Home Energy Low-income Program (HELP).

- Water & Sewer customers who have a total income of \$50,000 or less may apply to qualify for a water audit performed in their home that includes a check for water leaks, installation of a low-flow showerhead, installation of low-flow aerator on bathroom sink, and, if applicable, a voucher for a low-flow toilet and installation.
- Customers are shown how to read their meters and to quickly identify any leaks within their system so they can be promptly repaired.
- Eligible customers are able to replace up to two higher flow toilets with a good quality low flow fixture at a subsidized cost.
- The toilet replacement and replacement of showerheads and bathroom sink aerators with low-flow ones helps customers reduce water consumption.



Rain Barrel Program: A rain barrel program was offered in the spring with two hundred rain barrels available for purchase by Water & Sewer customers. The response was overwhelming with the barrels sold prior to the pickup date in May with a waiting list for 2018. By using rain barrels to capture water for use in the garden, less municipal water is used for outdoor watering. With outdoor watering typically done during drier weather conditions, an alternate water source relieves pressure on the watershed and benefits many.



Fix a Leak Week: Fix a Leak Week was a tri-municipal effort to promote awareness for water leaks with the towns of Cornwall and Stratford. Large 4'x8' signs were placed in the three municipalities and were kept up for the entire month of March instead of only for the designated week. A BeWaterFriendly Facebook account was set up to promote the event and prize draws were offered throughout the monthly campaign. Encouraging customers to check for leaks and fix them promptly reduces unnecessary water consumption. The hands-on display and interaction with the public at the Fix-It Fair provided information on leak identification, encouragement to fix leaks and demonstrations on how some leaks can be easily fixed.

Residential Meter Program: The Residential Meter Program continued in 2017 with over 1,900 customers switching from flat rate to a metered account. Metered customers tend to use less water than unmetered customers. The meter also has a low flow indicator to help the customer identify if a leak exists within their system so that it can be promptly fixed. When all customers are metered, the water audit will more accurately reflect water consumption and the amount of unaccountable water possibly due to leaks within the distribution system.

3. Continue to implement the recommendations of the City of Charlottetown Brook Trout Conservation Plan

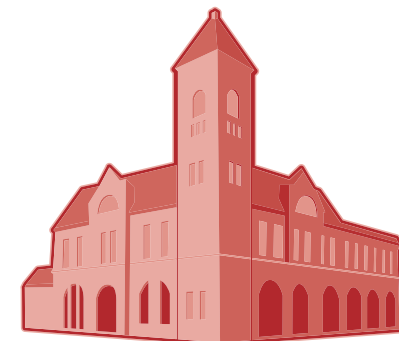
Brook Trout Conservation Program: The Ellen's Creek Watershed Group performed rehabilitation work within the watershed and stocked Tremploy Pond with 125-150 brook trout. Rehabilitation work improves the environmental health within the watershed with the brook trout population used as an indicator species for measuring watershed health. Tremploy Pond is stocked to establish it as one with a self-sustaining brook trout population and to allow a future recreational fishery.

Simmons Arena – Storm water Management Project: Bioswales are designed to manage a runoff from large impervious areas, such as a parking lots or roadways and are planted with perennials that can tolerate soil moisture extremes. The City of Charlottetown, working with the Clean Foundation, created a demonstration bioswale beside Simmons Arena along North River Road. Half of the bioswale is planted with clovers and grasses and is not mowed. The other half of the bioswale is planted with grasses and perennials (blue flag iris, rudbeckia sp., aster sp., native swamp milkweed) and is weeded and mulched on a regular basis.

Brookie Award: In an effort to further promote the objectives of Brook Trout Conservation Plan and to recognize the efforts of members of the community to support the Plan, the Ellen's Creek Watershed Group created the Brookie Award. This award will be awarded annually to an individual, organization or business demonstrating commitment and leadership in promoting urban watershed health. The award is named after the brook trout in recognition of the correlation between watershed health and the health of its brook trout population. The award itself is an image that captures the beauty of brook trout and was licensed from Sean Landsman, a local award-winning nature photographer and Charlottetown resident. The 2017 Brookie Award was presented to Ramona Doyle, Sustainability Officer for the City of Charlottetown for her work in addressing environmental issues impacting watersheds within the City of Charlottetown from stormwater control to fish passage, to reducing the impact of development on fish habitat.

4. Promote the use of low-flow technology (e.g., waterless urinals and composting toilets) and awareness around different quality fixtures using MaP (Maximum Performance) ratings

LIFT Program: Under the Low-income Financial and Technical (LIFT) Assistance Program, the toilets that are eligible for the rebate are required to have a MaP rating of 1,000g and have the Water Sense® label. Toilets that meet the City's requirements for the rebate approval ensures that customers get a fixture that works well and reduces water.



5. Provide drinking water sources or fountains downtown, in City facilities and in parks

Water Bottle Refill Stations: The City of Charlottetown supported Colonel Grey High School in its program to upgrade water fountains by purchasing a water bottle refill station to be placed in the school. The City provided the refill station and the school provided the installation. An immediate impact was recognized in that students used the station to refill their water bottles. In the first week that school opened in the fall, the counter registered that 891 water bottles were refilled. With bottle refill stations in place at the school, the use of soda and bottled water machines in the cafeteria will be reduced.

6. Integrate water-related activities, highlighting Mi'kmaq traditions, storytelling, heritage, watershed education, water conservation technologies and services, into city events

Watershed Model: At the Arbor Day activities hosted by the City this year for Grade 5 students, one of the activities included a demonstration using a watershed model. The model was setup and students interacted with it as part of the demonstration put on by staff. The demonstration gave students an opportunity to learn about watersheds, relate it to everyday activities and to be aware of things that they can do to protect our watersheds.

Tree Planting at Miltonvale: A fieldtrip was held in the fall at Miltonvale wellfield where three Grade 8 classes from Queen Charlotte Junior High spent the morning learning about the water station and the watershed including tree planting. There were four activities – tour of the water station, nature and identification walk, watershed demonstration and tree planting. There were 199 trees planted as part of the fieldtrip. Students were given knowledge and skills that can be used as part of their everyday lives.

Waterlution (micro-grant): As part of the City's micro-grants, Waterlution was awarded a grant for "The Water Story Tour". The project was a multimedia educative walking tour that encouraged people to walk throughout the City and learn about different aspects about water. Five sign locations were proposed with three approved. Each location provided information that could be accessed by the Strollopia application (downloaded by a QR code) or online.

The project also included an art component. Artwork was painted and displayed at the Confederation Centre Public Library. This was to draw attention to the water situation in Canada's First Nation communities. An interpretative walk was held around Governor's Pond with participants given the opportunity to paint their interpretation of the pond. A display of the work was available to the public at Art in the Open.



ENERGY

Improving energy efficiency, converting to renewable energy sources and reducing our dependency on fossil fuels are key components to community sustainability.

2017 progress toward achieving the Energy Goals and Actions listed in the ICSP:

1. Create opportunities to empower and engage the community about energy

Public Consultation on GHG Emissions Reduction Strategy:

During the month of January, the City of Charlottetown held a number of public consultation events and provided ample opportunity for community feedback on the City's Community Energy Plan. The UPEI Climate Lab offered an engaging presentation on the basics of climate change which gave the public a good understanding of why reducing greenhouse gases is a priority for the City. Mayor Clifford Lee hosted Eddie Oldfield from QUEST and Dr. Matthew Hall for a community energy speaker session at City Hall to discuss ways that municipalities can significantly reduce their GHG emissions through community energy planning. A full day of presentations and consultations was held with the public on their ideas, concerns, and vision for the future of Charlottetown in regards to energy and GHG reduction. All of the events were very well attended. Over 300 responses were gathered on an online energy survey and collected feedback via email from residents. Consulting with the public on the topic of GHG reduction was a great way to gauge the interest and attitudes of residents in Charlottetown and their feedback provided direction for the further development of the plan. Through the consultations, it was discovered that the public is very engaged in the topic of energy efficiency and GHG reduction, and that the vast majority wish to see Charlottetown significantly exceed current provincial and federal GHG reduction targets. There is interest in Charlottetown pursuing a target of 100% renewable energy.

2. Develop and deliver public awareness campaigns on energy efficiency and renewable energy

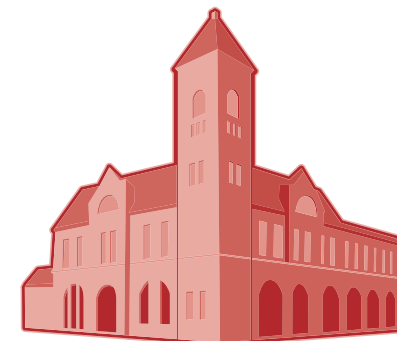
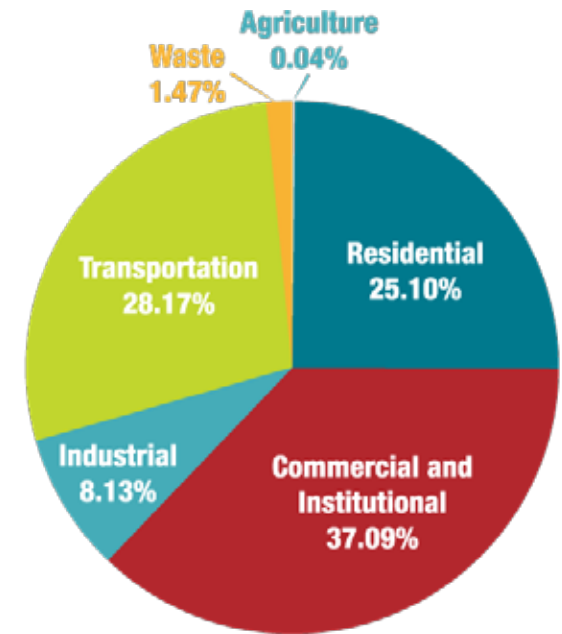
Build a Better Home: The Build a Better Home panel and discussion was an opportunity for people to learn about building sustainability and efficiency into their home to increase financial and energy savings. Panelists talked about maximizing efficiency from a design, energy, landscaping, and water conservation standpoint. There were over 250 people in attendance, and a large online following as we live streamed the panelists presentations and took social media questions using the hashtag #BetterHomesPEI.

3. Update practices to ensure regulations do not impede the use of energy efficient technology in heritage preservation

Heritage Retrofit Project: A partnership between Holland College Heritage Retrofit Carpentry Program, Energy Systems Engineering Technology Program; and efficiencyPEI was developed to look at the potential for improving energy efficiency in heritage homes. The project investigated the potential for wood window repairs and air sealing in a 130-year-old home in Charlottetown with original windows, hardware, trim and siding. Blower door tests were conducted after a full window restoration was completed and again after full weatherization including caulking, weather-stripping and shrink wrap. Through the two components, the project estimates the homeowner will use 315 litres less of oil annually.

4. Continue to work on energy efficiency in City facilities

Update on 2016 corporate greenhouse gas inventory: Corporate greenhouse gas (GHG) emissions across the City of Charlottetown's operations were estimated at 7,420 tonnes of carbon dioxide equivalent in 2016 (tCO₂e/year), 3.8% below 2015 GHGs. Expenditures in the inventory for 2016 were roughly \$3.5 million. GHGs in City operations for 2016 by sector and source are shown below.



Energy Efficiency Upgrades and Infrastructure Renewal:

At the Charlottetown Resource Recovery Facility (CRRF), also known as the wastewater treatment plant, a refurbishment of the anaerobic digesters was completed which reduced methane leakage significantly, lowering greenhouse gas (GHG) emissions and allowing more of the biogas produced by the digesters to be recovered and used onsite for process heat. A number of research projects were funded, in partnership with UPEI's School of Sustainable Design Engineering, to examine further opportunities at the CRRF. LED lighting upgrades were completed at Simmons and Cody Banks Arenas, and at City Hall. Queen Street and Fitzroy Street Parkades saw LED lighting projects completed in 2017, while Phase One of the Pownal Street Parkade LED lighting project was implemented. These efficient lighting projects have reduced energy use and GHGs substantially, and have created financial savings along with rapid paybacks. The City and Holland College have continued their partnership to provide on-the-job training for students enrolled in the Energy Systems Engineering Technology Program. This has led to identifying additional energy conservation measures.

5. Create a community greenhouse gas emissions reduction strategy for the City of Charlottetown that includes setting and implementing long-term emission reduction targets at the corporate and community levels

FCM Funding and the GHG Emissions Reduction Strategy:

Charlottetown has secured funding through the Federation of Canadian Municipalities' *Municipalities for Climate Innovation Program*, as well as from efficiencyPEI, Maritime Electric Corporation Limited, and the City to expand its corporate GHG inventory by developing a communitywide energy and greenhouse gas reduction plan. The first phase involved the development of a community energy, GHG and expenditures inventory which is

available on the City's website. After extensive engagement, consultations and input an evaluation of options to reduce GHGs has been drafted. The next step in the process will be developing the Community Energy Plan, with the goals of reducing GHGs significantly across all-sectors including waste and agriculture; while securing opportunity for growth and economic development. The aim is for the Community Energy Plan to be officially adopted and implemented, using adaptive management when necessary as situations evolve over time.

6. Continue to promote the City's Certified Sustainable Business Program that encourages businesses to lower their environmental impact and rewards best practices in sustainable business

CSB program update: Buns and Things Bakery, Invesco, and Howatt's Enviro Paints have received Certified Sustainable Business Certification since the inception of the program in 2016. The program looks at the businesses operations in terms of sustainability and efficiency efforts in the following categories: Community Engagement, Waste Management, Water Conservation, Energy Efficiency, and the General Work Environment. In 2017, efficiencyPEI joined the Certified Sustainable business team as a partner in the delivery of the program, and they cover the Energy section of the sustainability audit. Island Waste Management Corporation covers the waste management section. The program is an excellent way to bring the business community in to the City's sustainability goals so we can work together to achieve them. We are currently working with other businesses in Charlottetown, such as Beanz Café and Espresso Bar, Kent St Market, MacQueen's Bike Shop, and more to help them reach Certified Sustainable status.



TRANSPORTATION

The City of Charlottetown is striving to reduce fossil fuel dependency by creating a culture of active transportation, improving public transit and reducing car emissions. The City seeks to improve barrier-free accessibility to active transportation networks, to transit and to City facilities.

2017 progress toward achieving the Transportation Goals and Actions listed in the ICSP:

1. Continue to provide courses in cycling safety and completing minor bike repairs/maintenance

Cycle our City 2017: The second annual cycle our City event was an opportunity for cyclists of all skill levels in Charlottetown to get together for a group bike ride and bike repair/tune-up clinic. Cyclists were shown how to use the bike fix it station in Joe Ghiz Park to perform manual tune-ups and minor repairs on their bike. People were fitted properly for their bicycles and helmets before setting off together for a group bike ride to the Farmer's Market along the Confederation Trail. Once the group arrived at the Farmer's Market CyclePEI was set up to offer a bike rodeo to teach and practice cycling rules and safety.

2. Continue to develop and deliver public awareness campaigns highlighting existing and new cycling routes and cycling safety

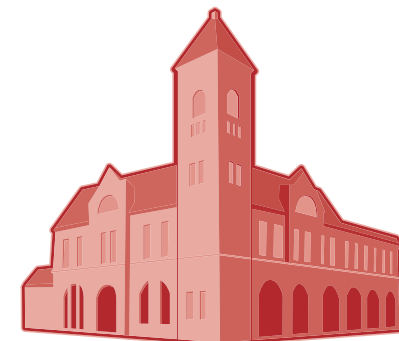
Bike Month/Car Free Day: During Bike Month, the City of Charlottetown offered various events, contests, and communications all about cycling in our City. Bike to work day was taken to the next level with our Car Free Day event where people who travel to Charlottetown were encouraged to bike, walk, or take the bus instead of driving their car into the City. A 'like and share' Facebook contest accompanied this event and cycling gear such as bells, water bottles, and a helmet were given away. A throwback cycling photo contest was held where individuals were asked to share a throwback photo of themselves on their bicycle for a chance to win cycling gear. Other municipalities were involved in delivering similar cycle-centric events and contests. Overall events and communications like this are an important step toward enhancing bike culture in Charlottetown and all across the Province.

3. Continue to increase transit ridership

2017 Transit Ridership: 2017 was an exciting year for transit in the City with annual passenger fares exceeding 500,000. Capital upgrades to transit fleet included security cameras, the addition of WIFI service for passengers and front-mounted bike racks. T3 also launched a new website to improve ease of navigation for transit users.

4. Review City fleet and operations to identify ways to reduce idling, kilometres traveled and carbon emissions

Automated Vehicle Location System (AVL): Despite having a larger fleet as well as an increase in the number of staff we are transporting, our fuel costs have projected downward. This is a direct result of the AVL Fleet Monitoring. The AVL Go Fleet system has helped Charlottetown identify ways of further reducing our fuel costs moving forward. These tasks will include switching the remainder of our beacon light system to LED and having them wired directly to the battery versus the ignition switch. This will allow our fleet of vehicles who must keep beacon warning lights running for safety, to operate the warning lights without having to run the vehicles. It is estimated this will carry an additional savings of \$350-\$500 per month. Not only does this LED switch reduce fuel costs it also reduces the impact we are having on the environment.



FOOD

The City of Charlottetown aims to promote local food production and procurement, improve food security, reduce food waste and use the culinary assets of the community to connect locals and visitors with food.

2017 progress toward achieving the Food Goals and Actions listed in the ICSP:

1. Investigate the possibility of planting urban fruit trees on City property

Desbrisay Edible Trees: Charlottetown received funding from Tree Canada's Edible Trees Program in 2017. In partnership with the PEI Food Exchange and Desbrisay Community Gardens, the City put on a Permaculture workshop with Adam MacLean and planted two edible orchards, one in Desbrisay Park and one in Windsor Park. The orchards include a variety of fruit trees and shrubs, as well as native tree and shrubs that provide food for wildlife.

2. Support and deliver education programs focusing on food preservation techniques and food production skills

Gardening in Small Spaces: The Gardening in Small Spaces workshop held its 6th annual workshop in 2017, which provides information on a wide variety of topics from how to grow vegetables, soil health, dealing with insect pests, invasive species and more. Each year the 11 vegetable planters in Victoria Park are planted by workshop participants allowing people to get their hands in the soil and learn about planting a wide variety of herbs and vegetables. In 2017, the focus of the workshop was Minigardens which are a growing system that allow you to grow herbs and vegetables indoors or out, in a small area.

Garden Days: The City of Charlottetown participated in National Garden Days for the third year in 2017. These workshops provide an opportunity to engage the community, bring families together for some fun, educational activities and provide a platform for disseminating information about City initiatives. In 2017 there were 4 mini workshops held at the Farm Centre: how to make a fairy garden, xeriscaping,

vegetables and pollinator gardens. Each participant received information on the related topic and planted and decorated their own container to take home. As part of Garden Days, a talk on living walls was held at Upstreet Craft Brewing Company and the East Coast Art Party held a garden themed evening of painting in honor of Charlottetown Garden Days.

Community Gardens: In-kind support was provided to community gardens in the form of compost, mulch, soil, rain water harvesting tools, yard waste cleanup, workshop coordination, etc. These contributions help the community gardens promote local food production and involve/connect the community to that food production.

Vegetable Planter Program: The City has 20 large vegetable planters located in three City parks and the Desbrisay Community Garden. Support from local businesses and organizations allowed for the expansion of the program in two new locations. These planters provide an opportunity for the City to carry out educational programming around food production, provide a place to showcase new and unique herbs and vegetables, provide a gathering place to bring the community together to discuss food production, are an opportunity for involving youth in planting and growing their own food and provide a source of local, fresh produce for City residents to harvest. These vegetable planters are very popular and respected by the public as shown by the way the produce is shared and the infrastructure is rarely vandalized.

3. Work with community stakeholders to develop a food security strategy for PEI

Let's Talk Food: In partnership with The Food Security Network of PEI and the United Way, the City of

Charlottetown helped bring together various stakeholders within the food system on PEI to engage in meaningful discussion on the topic of food sovereignty and identify some key action outcomes that would contribute to improvements in the existing food system. This event led to numerous valuable connections among individuals with a diverse range of interests and expertise in the food system, as well as a call to action in the form of the development of a food charter and food policy council for Charlottetown. Charlottetown City council has since approved the development of a food policy council, and the City will soon begin accepting applications for those interested in sitting on the council. The council's mandate will be to improve the existing food system through program and policy work, starting with the development of a Food Charter that clearly defines the elements of a sustainable food system that we aspire to achieve.



HEALTHY ECONOMY

The City of Charlottetown continues to develop partnerships with government, industry and local agencies to ensure a healthy economy and diverse job opportunities to attract and retain residents. The City collaborates with key stakeholders to reduce poverty and ensure an affordable cost of living for Charlottetown residents.

2017 progress toward achieving the Healthy Economy Goals and Actions listed in the ICSP:

1. Develop partnerships between businesses, academia and government to create opportunities for innovation

Charlottetown Resource Recovery Facility Research

Project: The City of Charlottetown is working with faculty and students from the University of Prince Edward Island - School of Sustainable Design Engineering on the Charlottetown Resource Recovery Facility (CRRF) project. Elements currently being researched include the opportunities for biosolids from the City's Pollution Control Plant (PCP), the opportunities for energy efficiency savings at the PCP and the potential for tidal and wind energy production for the PCP. In 2017, the City also worked with the Canadian Impact Infrastructure Exchange (CIIX) based out of Carleton University in Ottawa, Ontario to look at the economic, social and environmental costs and benefits of transitioning the PCP to a sustainably-focused Resource Recovery Facility.

2. Continue to explore economic development and business attraction opportunities

The City met with many prospective companies to promote our value proposition. These were companies from as far away as China and India and in varied sectors such as IT and financial services. The City continues to improve cultural development with growing and successful festivals and events. The impact of newcomers from around the world continues to be the engine of growth in Charlottetown. The City has been busy meeting and working with new entrepreneurs, hosting orientations and receptions, and working with other partners such as Island Advance and Connectors PEI.

3. Continue to sponsor, partner, organize and promote local festivals and events that attract visitors

2017 Celebrations (Canada 150): The City of Charlottetown continues to attract and host one-off festivals and events that stimulate economic, tourism, social, and cultural prosperity for the destination. In addition, there are a number of signature annual events that are held in the City that help to create a balanced calendar of events. 2017 was another banner year for event tourism led by the Capital City Canada 150 celebrations that featured the RDV2017 Tall Ships Regatta, STIHL Timbersports Canadian Champions Trophy, and an enhanced Canada Day celebration that drew upwards of 75,000 attendees and saw the destination featured heavily in national media.

SCORE: The City's sport tourism initiative, SCORE, also played host to a number of impressive events throughout 2017, including international events such as the ScotDance Canada Championship Series, World Sledge Hockey Challenge, and CIBC CHL Canada Russia Series, among many other national events. Of PEI's annual \$67.2 million economic impact from sporting events, Charlottetown accounts for an average of \$43.7 million.

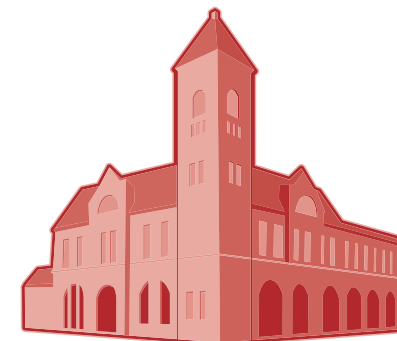
4. Implement the recommendations of the Youth Retention Report (2016) to attract and retain youth in the City

Safe Exchange Zone: The "Safe Exchange Zone" was developed and implemented to provide a safe and secure place for the people of Charlottetown to utilize after buying or selling something on legal online marketplaces such as Facebook Shop N Swap or Kijiji. It allows people to have a

place where they can meet a stranger and still feel comfortable, knowing that it is a well-lit area under 24/7 video surveillance. The "Safe Exchange Zone" is the first of its kind on PEI and feedback from Charlottetown City Police has been positive, stating that it is busier than they initially expected. Anytime things can be implemented to help make Charlottetown a safer place to live is a positive thing.

Taxi Bylaw: With the creation of the Taxi Bylaw Taskforce, the City has shown a commitment to improving our taxi system in Charlottetown. The work done so far has been overly positive with excellent discussions between the task force and the taxi industry. It's vital that we continue to work towards improved safety, reliability within the taxi industry. With Prince Edward Island and Charlottetown becoming an ever increasingly popular tourist destination, our taxi drivers are often some of the first people to greet tourists when they arrive at the airport or the harbor. It is also important to continue to improve the services for all citizens of Charlottetown to help retain our youth population here.

Car-Free Day: The City of Charlottetown held a Car Free Day in June 2017 to encourage those who travel to Charlottetown to leave their car at home and travel by bike, walk, or take the bus instead of driving their car into the City.



INFRASTRUCTURE AND THE BUILT ENVIRONMENT

Developing long-term plans for managing, maintaining and replacing infrastructure, the City works to minimize sprawl, prepare for the effects of climate change, and ensure emergency preparedness.

2017 progress toward achieving the Infrastructure and the Built Environment Goals and Actions listed in the ICSP:

1. Integrate sustainability goals into planning and development policies of the City's Official Plan (e.g. policies that mandate compact development, climate change adaptations, energy efficiency and active transportation)

University of Alberta Research Project: The City of Charlottetown is working with the University of Alberta on a project to review climate change risk and vulnerability in the context of heritage planning and what it ultimately means for Charlottetown; e.g. how the city is approaching the challenge, where does responsibility sit, how could the situation be improved. The project included interviews with 5-7 key stakeholders over the summer of 2017. Key stakeholders included Planning personnel from the City and the Provincial Government, and relevant individuals from the University and the community in general.

New Elevation Requirements: The City of Charlottetown has defined height elevation requirement for the first floor of all development near the waterfront. The City is using the Coldwater Waterfront Assessment Report as a reference when dealing with development in the waterfront area. The City Planning Department continues to try to promote density throughout the City to ensure that development occurs in a cost effective manner and reduces the amount of land required for development.

Eastern Gateway Master Plan: The City Planning Department is working to improve and to adopt the Eastern Gateway Master Plan which deals with the impact of overland flooding as well as storm surge. The Eastern Gateway Plan would protect low lying areas that are prone to flooding from any form of development and promotes large green spaces.

2. Continue to plan and prepare for the impacts of climate change (e.g. storm surges, coastal erosion and sea level rise)

Queens Arms Intersection Project: A major natural storm channel flows under the 'Queens Arms' intersection, leading diagonally from a pond on the upstream side to the tidal, impacted Ellen's Creek on the downstream side. By 2017 the storm pipe under the road/intersection was of unknown age, varying cross-sections (as expansions had occurred) and questionable integrity at some locations. Large sections were box culvert constructed of creosoted timbers.

In the Fall of 2017, the City undertook replacement of storm pipe across the full intersection by installing 60 linear meters of new precast concrete box sections having inside dimensions of 3.0m wide by 1.2m high. In consultation with fisheries officials, a specific baffle system was included to assist in any fish passage.

Associated work in the project was the connection of some storm laterals and upgrading of the intersection traffic signalization. The new storm culvert has an expected 275% capacity of the previous culvert (which had not demonstrated any significant effects in extreme flow events) and at a 6.0 m³/s capacity is just over the expected volume of a 100 year return event per current watershed conditions and intensity/duration frequency calculations; though climate change and new development in the watershed may increase flows in the future.

Charlottetown Water Front Assessment: Charlottetown Area Development Corporation enlisted the services of Coldwater Consulting Ltd. to complete an assessment of water levels, flood risk, storm surge and tides of the Charlottetown Harbour. The report provided new models and mapping infrastructure assets located along the harbourfront.

The report also provided a summary of defence measures that of flood risk and assessed the vulnerability of a number of could be considered for protecting waterfront assets and preparing for the storm surge impacts of climate change.

3. Implement the recommendations of the City's Barrier Free City Report 2016 by looking at new and existing infrastructure through an accessibility lens

Since the City's Barrier Free Report was released in 2016 all Departments have been making efforts to implement the recommendations. Upgrades to existing infrastructure to make it more accessible, such as adjusting door weights, changing out door knobs to levers, lowering mirrors and paper towel dispensers, and more. Outdoors, the City has made improvements to boardwalks and wheelchair ramps in various locations, installing tactile pads at crosswalks, and using a new mix of sand/salt to increase traction on sidewalks in winter months. Accessibility is worked into the plans of all new infrastructure, such as the cultural pavilion, built in 2017 that has an accessible ramp, walkway, and washroom. The City will continue to work on implementing all of the recommendations in the Barrier Free plan to set an example for others in the City, and to raise awareness of the issue.



PEOPLE AND PLACES

The City of Charlottetown works to improve safety and create spaces that engage and inspire residents of all demographics and backgrounds. The City supports an engaged population with a shared goal of enhancing the community and operates as an open and transparent government. 2017 progress toward achieving the People and Places Goals and Actions listed in the ICSP:

1. Update City's website in an effort to improve communication with residents and visitors as well as to provide more online access to City services

New Website: The City of Charlottetown launched a new website in March of 2018 designed with improved search functionality, better navigation, more access to information and increased accessibility. The new website is responsive across multiple devices, and includes features such as a drop-down translation button utilizing Google translate, printable pages, multi-level calendars for meetings and events, a searchable staff directory, online event registration forms, and accessibility features such as larger, more accessible font, text applied to photos and videos with closed captioning.

The website also features new content. The media and the public can access a meetings calendar for all meetings of council and subscribe to be notified when a new meeting is added. As per the new Municipal Government Act, the agendas, minutes, resolutions and council packages are also available on the website. Searchable indexes for bylaw, policies and permits have also been added. Contractors and other vendors can also sign up to be notified by email when a new tender or request for proposals is posted.

2. Implement a Mass Notification System to improve communication with residents and increase efficiencies in emergency alert notification to the public

Mass Notification System: The City of Charlottetown implemented a Mass Notification System in 2017. The primary goal of this Charlottetown Alert System is to notify residents of emergency situations, such as evacuations and severe weather impacts. The system will also be used for

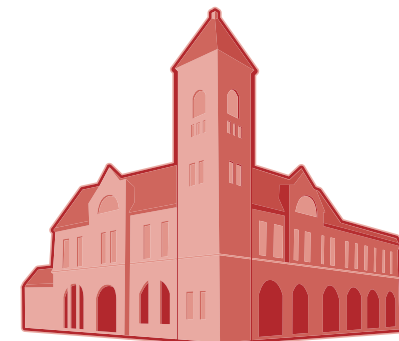
informing the public about the location of emergency shelters as well as other vital, time-sensitive information. The alert system is subscription based, which means residents have to willingly provide their contact information in order to receive notifications. Those who sign up can choose how they receive messages, such as by phone, text or email. There are also optional alerts that the public can sign up for, including traffic advisories and notifications for when the City expects to be de-icing or plowing. Anyone who signs up for alerts can opt out at any time. Subscription to the service is free. The public can sign up on our website at: www.charlottetown.ca. If anyone requires assistance signing up, they can call 902-629-4000, during regular business hours. We had an employee go door-to-door for a number of months. The alert system has also improved how people are notified about snow removal/de-icing. Rather than having to visit our website or social media channels to seek out the information, people can sign up for the alerts about our snow operations and be notified directly on the device or method of their choice.

3. Deliver initiatives that help to create a safe, welcoming space for members of the LGBTQ+ community

Rainbow sidewalks: Things are always bright and colorful at one of the main intersections in Charlottetown (Queen/Grafton) since the City of Charlottetown public works department painted the crosswalk bars in rainbow colors. This initiative was intended as a show of support of the LGBTQ+ community in our City. The crosswalk was painted around Pride PEI week in July 2017 but remains in-tact for most of the year for everyone to see and enjoy.

Pride Week Activities: The City of Charlottetown strives to make its events and initiatives inclusive and welcoming to all

citizens. Everyone deserves to feel included and safe in their environment. With that in mind – recognizing that there is still discrimination and issues that impact people who identify as lesbian, gay, bisexual, transgender, queer, and two-spirit (LGBTQ2) – the City participates in initiatives to send a message of support to the LGBTQ2 community. During and leading up to PEI Pride Week, the City Hall Bell Tower is illuminated in a rotation of the six rainbow colours synonymous with diversity and the LGBTQ2 community. Rainbow crosswalks are painted at a busy downtown intersection, and a flag raising is held with elected officials and members of Pride PEI. A message of support from the City is advertised in the local paper's special Pride Week edition and the City assists in communicating Pride Week information to the public, as well as traffic control and police involvement during the parade.



4. Develop partnership between the community and City Police Services to create a more community-minded police presence

PEI BRIDGE: BRIDGE offers assistance to Islanders facing serious, often time-sensitive issues including violence or abuse, homelessness, or mental health concerns. It allows critical information sharing among staff of government departments and community-based agencies working with people at an acute elevated risk of serious harm happening soon.



5. Develop a dog park or other improvements for dog owners in the City

Hillsborough Dog Park: The City of Charlottetown's Public Works Department has partnered with the Province of PEI to establish a dog park in Charlottetown.

The dog park located off of Acadian Drive in Hillsborough Park. The fenced in area offers approximately 12,000 square feet of open green space for dogs to enjoy off-leash activity. Dog clean up bags, waste bins, and dog play equipment are available at the dog park, along with benches for park users to sit as their dogs enjoy their freedom. The dog park is open seven days a week from 8:00 a.m. to dusk until late fall.

Dog Days of Summer: The City of Charlottetown received funding from the Canada 150 Fund for The Great Trail Celebrations. The Great Trail Celebration happened all across Canada on August 26, 2017 to celebrate the milestone of 100% connection on the Great Trail across Canada from coast to coast. The City of Charlottetown's Great Trail event was called 'Dog Day of Summer' and ended up being the dog social event of the season. The event started with a group dog walk along the Great Trail from UPEI to Orlebar Park. Once we arrived at Orlebar Park the festivities began. There was a healthy BBQ, Live Music – Logan Richard, Face Painting, an Insta-pic photo booth, an opportunity for pups to express their creativity with dog paw painting, and vendor booths set up. Veterinarian Peter Foley was on site to answer common questions about the pup's health and well-being.



6. Create cultural pavilion in Victoria Park to be used for outdoor events and festivals

Victoria Park Cultural Pavilion: In June 2017, the City of Charlottetown unveiled a new performance space in its “crown jewel” the Victoria Park Cultural Pavilion. Constructed to fill an identified infrastructure void in the Park, the Cultural Pavilion is meant to serve as a dynamic and welcoming, multi-functional gathering space for free arts and cultural-based programming in what has long been known as a natural amphitheatre. There was once a bandstand located on site that was built in 1973 to commemorate 100 years since PEI entered confederation but it fell into disrepair. The new Cultural Pavilion was constructed in celebration of Canada 150.

In August 2017, the Cultural Pavilion was the focal point for a new City of Charlottetown family friendly evening event called the “Victoria Park Sunset Series”. The Sunset Series featured five nights of music, movies and art centered entertainment. All events were free, family friendly, non-gated and non-alcoholic. Event goers were encouraged to bring a lawn chair or blanket.

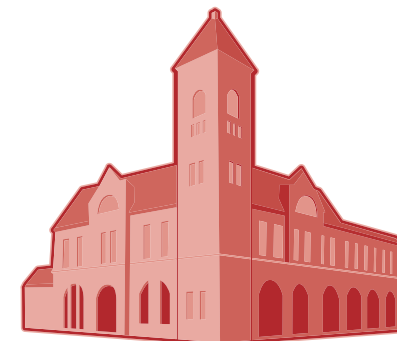


7. Encourage more programming in the City’s greenspaces (e.g. yoga in the park, games and social activities)

Fun in Greenspaces: Every Wednesday at noon in July and August the City of Charlottetown offered free programming in Rochford Square. Activities such as yoga, kung-fu, guided meditation, and swing dancing were offered as well as games like bocchi ball and speedball for people to enjoy over their lunch-hour. The goal of the event was to encourage people to get outside and enjoy some of the City’s greenspace with opportunities to be social and active.



Snoga: In 2017 we held our first ‘Snoga’ event as part of the Winter Love campaign. Snoga is outdoor yoga in the snow and the free, hour-long class was offered by certified yoga instructor, Cynthia Dennis in Rochford Square. The event was well attended and enjoyed by all – so much so that it has become an annual event.



ARTS, CULTURE & HERITAGE

The City works to provide year-round cultural activities and events while making the best use of multi-purpose venues in the community.

The City supports the arts community and celebrates its heritage while embracing the evolving community.

2017 progress toward achieving the Arts, Culture & Heritage Goals and Actions listed in the ICSP:

1. Partner with community organizations to deliver more cultural and heritage-focused events

Picturing a City exhibit: The City of Charlottetown's Heritage Department displays historic photo exhibits that give visitors and residents a glimpse into the past. The Picturing a City exhibits are displayed in the storefront windows of the Planning & Heritage Department on Queen Street and have showcased photographs that make up a variety of themes, such as 'Christmastime' to 'Cycling in Charlottetown'. Collecting the photos is a great opportunity for the Heritage Department to learn from their owners about the history of Charlottetown and expanding our knowledge of times past.



2. Promote the City's public art assets

ArtWalk: The City of Charlottetown is producing an ArtWalk marketing/information piece. The document will highlight significant and very visible pieces of public art that exist primarily in downtown Charlottetown. The document will be a benefit to visitors, local citizens, lovers of art, investors, and people of all ages. The City of Charlottetown was designated as a Cultural Capital of Canada in 2011. This designation was a launch pad for numerous art installations and projects, and set a new trajectory for cultural development in the capital city. New public art was one of the beneficiaries of the project, and with new projects from the 2014 celebrations of Confederation's 150th Birthday, Charlottetown has greatly increased new art on our streets for all to enjoy. This document, which will first be available in print form and eventually digitally as well, will provide a map of the downtown area along with photos and descriptions of the pieces, the year of completion and the artist. It is hoped that the document will serve as a great guide that will assist people to easily find these great works of art.



ACTIVE HEALTHY LIVING

The City works to improve the overall health and wellbeing of the community by providing and promoting recreation opportunities for all ages and demographics year round and by maintaining parks and facilities that provide essential spaces to improve and maintain health and wellness.

2017 progress toward achieving the Active Healthy Living Goals and Actions listed in the ICSP:

1. Continue to provide low-cost activities and free programming

Parks & Recreation Programming: The Charlottetown Parks and Recreation Department offers a number of low cost activities for city residents. There are activities for all ages from preschool to seniors and they take place during the whole year. Programs included are an intro to sports program for preschoolers, adult and seniors fitness classes and during the summer we offer a couple of seniors days in the park. Free programs are also offered with the support of provincial recreational initiatives. Some of the programs included I love to Skate, Snowshoeing and other family events during the Fall and Winter.

2. Continue to connect Routes for Nature and Health to provide a comprehensive trail system

The City's Parks and Recreation Department continued to partner with Wright's Creek Watershed Environmental Committee on Andrew's Pond Trail Development to complete trail resurfacing upgrades (i.e., crushed asphalt), trail extensions to better connect, and trail wayfaring signage. To improve public safety, the boardwalk behind the Culinary Institute (Sydney Street to Irish Monument) was completely renovated and included the surface being upgraded to marine grade lumber.

3. Work with partners to connect residents with mental health supports and addiction services

City Employee Assistance Program: LifeWorks is a full-service Employee Assistance Program (EAP) and wellness resource designed to help with work, life and everything in between. LifeWorks is a benefit provided to employees by the City of Charlottetown at no cost, and it's completely confidential. The program includes consultations, information and educational materials, counselling and personalized community referrals. LifeWorks can help with a wide range of issues, including:

LIFE: Stress/Overload, Anxiety, Depression, Grief/Loss, Community Resources

FAMILY: Parenting, Separation/Divorce, Blended Families, Caring for Older Adults,

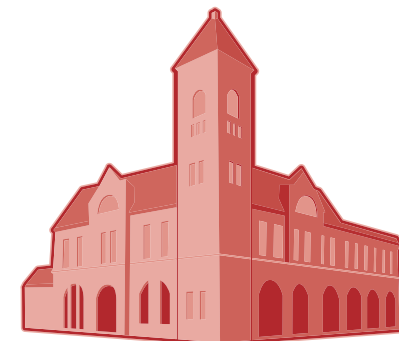
MONEY: Saving/Investing, Debt Management, Estate Planning/Wills, Home Buying/Renting

WORK: Work Relationships, Job Stress/Burnout, Managing People

HEALTH: Fitness/Nutrition, Sleep, Addiction/Recovery, Smoking Cessation

LifeWorks also includes access to a program website where a person can find hundreds of articles, watch short videos, listen to podcasts, order free educational materials and resources, and much more.

Mental health week for staff: During Mental Health Week the City of Charlottetown offered a unique wellness opportunity to staff to carve a little time out of their workday to slow down and be mindful. Every afternoon during Mental Health Week (May 1 – 7) staff were invited to the breakroom for 10 minutes of meditation guided by the mindfulness meditation app called 'Headspace'. Staff who participated noted that it made them feel refreshed and improved feelings of wellbeing.



NATURE

The City works to protect urban wildlife, promote biodiversity of flora and fauna, and care for the City's urban forest. 2017 progress toward achieving the Nature Goals and Actions listed in the ICSP:

1. Continue to use the street tree inventory as a proactive urban forest management tool

The Street Tree Inventory Program: The Street Tree Inventory Program was in its 2nd year of implementation in 2017. The inventory records detailed data on the street trees and signature parks trees. This information allows for proactive and efficient operational activities to be scheduled such as tree pruning, identifying tree planting sites, monitoring heritage trees, monitoring for invasive insects pests and diseases, determining the percent of certain tree species in the urban forest, creating a successional tree planting plan and more.

2. Continue the proactive Dutch elm disease program to reduce the spread of the disease and protect the City's healthy elm trees

The Dutch elm disease (DED) program: The Dutch elm disease (DED) program was carried out for the third year in a row in the fall of 2017. Seventy-seven DED infected elms were removed in an effort to protect the City's healthy elm trees. The City also treated nine elm trees to help reduce their susceptibility to DED. The treatment (fungicide and water mix) is a macro-infusion that is pumped into the elm tree through tubes that are placed in the crown roots of the tree. The treatment is taken up by the actively growing elm tree and is distributed throughout the tree canopy. The number of elm trees removed each year is declining, which is what we want to see. Approximately 45% of the City's elm population remains.

3. Continue providing community engagement activities related to flora and fauna

Where the Wild Things Are: The "Where the Wild Things Are in the City" family fun day event was held on October 14, 2017. This was a celebration of the flora and fauna that are found in the City. Between 700 and 800 families and friends came out to enjoy the day. Some of the highlights were: tree planting, creating an insect hotel, seeing live birds of prey and much more.

Arbor Day: 165 students from five Charlottetown schools participated in the City's annual Arbor Day celebrations. The students planted 97 native trees and shrubs, went on a nature tour of Victoria Park, watched a watershed erosion demonstration that looks at sources of water pollution and how to prevent it, and had fun with photos at a nature photo booth.

Make Your Hometown Beautiful: The City's Make our Hometown Beautiful program (previously known as Make Charlottetown Bloom) rewards property owners for their unique features, design, overall aesthetics as well as their environmentally friendly and sustainable practices. Many of the categories are focused on community and youth engagement, edible gardens, creating habitat for urban wildlife and using water wisely. The program promotes communities and pride in our City. Many excellent entries were received and an awards night was held to honor the efforts of those who make our City beautiful.

Communities in Bloom: Charlottetown continues to be a longtime participant in the Communities in Bloom Program. Many of the areas judged within the program align with City's sustainability goals, such as environmental action and urban forestry.



Micro-Grant recipients (2017)



The Community Sustainability Micro-grant Program was developed in 2011 in order to support community groups and individuals in their sustainability-focused projects. Community action was seen as an integral part of the success of the implementation of the City's Integrated Community Sustainability Plan (ICSP).

Through the community sustainability micro-grant program, individuals can apply to receive up to \$2,500 in funding for a project that contributes to the achievement of the goals and actions listed in the ICSP.

Each year we are inspired by the ideas that the public share with us through this program. We are honored to help make these ideas come to life.

The following projects were chosen to receive funding in 2017:

Community Garden Mentor Program: PEI Food Exchange

A garden mentor certification program intended to create a dedicated network of garden mentors through a shared learning experience that will increase the exchange of information on growing food, food skills, healthy eating, and local food sourcing.

Charlottetown Junior Sous Chefs: Island Food Skills Initiative

The Charlottetown Junior Sous Chef Program is an interactive and inclusive program aimed at youth age 8-17 that seeks to improve health and wellness through food literacy, food skills training, and kitchen confidence. Renowned chef Chris Sallie, and registered dietician Chie Xu will be administering the courses.

Living Roof Bike Shelter: Charlottetown Farmers Market Cooperative

Not your average bike shelter, this structure will provide a secure space right off the confederation trail next to the market to leave your bicycle, and biodiverse bird and insect habitat, and a living roof. This project aims to reduce vehicle traffic at the market, and encouraged cycling and the use of the confederation trail. It is 'sustainability in action' and it will include educational signage and benches for users.

Restoring Biodiversity to Public Places, Phase II: MacPhail's Woods/ECOPEI

This project will continue to expand the Confederation Forest by another 30 acres using native plants and involving local volunteers, with the added benefit of improving wildlife habitat, increasing biodiversity, and establishing an accessible public forest for everyone to enjoy.

Recycled Public Access Piano: Arduino for Autism - David Sheppard

A recycled piano will be placed in a public space for public use. The piano will have a rain cover for protection and a micro-controller that will track usage as well as local pedestrian presence and record the data.

Micro-workshops: Charlottetown Tool Library

This project consists of six (6) micro-workshops planned and delivered by the Charlottetown Tool Library. Each workshop will be delivered concurrently with a public event organized by a collaborating community organization. The workshops will give the Charlottetown Tool Library an opportunity to engage with the public, spark creativity and dialogue.



**Gardening and Food Security:
First Baptist Church**

As a way to engage and empower the Church's refugee families and downtown community to increase their food security and promote healthy eating, the Church would like to provide garden plots, transportation, initial purchase of seed/ fertilizer and organic pest management.

**Charlottetown Rural Living Wall Project:
Charlottetown Rural High School**

A student led project aimed at enhancing the existing greenhouse through the installation of a "living wall" that will save space and increase food production throughout the year. The goal is for the students to experience and understand the 'ground to plate' process that our food takes and will hopefully inspire a taste for growing their own quality food year-round.



**Water Story Tour:
Waterlution**

The Water Story: an interactive tour about drinking water in Charlottetown will be a multi-media educative walking tour leading residents of all ages, tourists, and newcomers on a stroll through the City to discover the story behind their drinking water. It intends to draw attention to our water resources in an enjoyable, healthy, and inclusive way in order to raise awareness and encourage the adoption of water conservation measures.

**Community Garden Rain Water Harvesting System,
Phase II - Multi-Barrel Solar Powered System:
Desbrisay Community Garden**

The multi-barrel solar powered rain harvesting system at Desbrisay Community Garden will provide a demonstration of renewable energy technology that will allow households, community gardens, and small business to reduce run-off, the demand on City water supply, and energy costs.



PARTNERS

- Abeqweit Fish Hatchery
- Adult Protection
- All Island Police Services
- Arduino for Autism
- Arts Advisory Board
- Atlantic Canada Opportunities Agency (ACOA)
- Atlantic Green Contractors
- Buns and Things
- CADC
- Canadian Impact Infrastructure Exchange (CIIX)
- Charlottetown Area Development Corporation (CADC)
- The Charlottetown Farmers Market Cooperative
- Charlottetown Special Events Reserve Fund (SERF)
- Charlottetown Rural High School
- Charlottetown Tool Library
- Child Protection Services
- Clean Foundation
- Colonel Gray High School
- CN Connections
- Communities in Bloom
- Community Museums Association
- Confederation Centre Public Library
- Connectors PEI
- Cycling PEI
- Desbrisay Park Community Garden
- Department of Education
- Discover Charlottetown
- Downtown Charlottetown Inc.
- East Coast Art Party
- ECOPEI
- efficiencyPEI
- Ellen's Creek Watershed Group
- Farm Centre – Legacy Garden
- Federation of Canadian Municipalities (FCM)
- Food Security Network PEI
- Garden Days
- go!Charlottetown
- go!PEI
- Government of Canada
- The Great Trail
- Habitat for Humanity
- Heart Beet Organics
- Holland College
- Holland College Environmental Applied Science Technology Program (EAST)
- Holland College Energy Systems Engineering Technology Program (ESET)
- Holland College Heritage Retrofit Carpentry Program
- Home Hardware
- Howatt's Enviro Paints
- Innovation PEI
- Invesco
- Investors Group
- Island Advance
- Island Coastal
- Island Falconry
- Island Food Skills Initiative
- Kent Building Supplies
- Local elementary schools
- Local minor sport groups
- MacPhail Woods
- MacQueen's Bike Shop
- Maritime Electric
- McInnes Cooper
- Mental Health and Addictions
- Mi'kmaq Confederacy of PEI
- MRSB
- The Music Man
- Nature Conservancy of Canada
- Outer Limit Sports
- PEI Council of People with Disabilities
- PEI Family Violence Prevention
- PEI Food Exchange
- PEI Food Security Network
- PEI Invasive Species Council
- PEI Museum & Heritage Foundation
- PEI Regiment Museum
- PEI Wildfowl's Carving Association
- Pride PEI
- Probation Services
- Province of Prince Edward Island
- Public Archives & Records Office
- Public Health
- Queen Charlotte Junior High School
- Quality Urban Energy Systems of Tomorrow (QUEST)
- RBC
- Recreation PEI
- Sierra Club
- Skills Canada PEI
- this town is small
- Town of Cornwall
- Town of Stratford
- Tree Canada
- Sherwood Lions Club
- Social Programs
- Sport PEI
- Sporting Intentions
- T3 Transit
- The Tech Guru
- United Way of PEI
- University of Prince Edward Island (UPEI)
- UPEI Climate Lab
- UPEI Let's Talk Science
- UPEI – School of Sustainable Design Engineering (SSDE)
- Upstreet Craft Brewing Company
- Upton Farm Trust
- Victim Services
- Vital Natural Health
- Waterlution
- Wild Child
- Winter River Tracadie Bay Watershed Association
- Winterlove PEI
- Wilfred J. Smith Community Garden
- Wright's Creek Environmental Committee
- Youth Matters Advisory Board





For questions, or comments please contact: **Ramona Doyle, Sustainability Officer**

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