BUILDING RESILIENCE

ENVIRONMENTAL HEALTH IN PRINCE EDWARD COUNTY

Presentation to Bay of Quinte Greens Speakers Series

Session: "Precious and Free" Water as a Vital Need and a Basic Commodity in a World of Climate Crisis
Jane Lesslie, Chair, Prince Edward County Environmental Advisory Committee
April 28, 2021

Environmental Advisory Committee Mandate from Council

- 1. Engage with public to support broadened public environmental awareness in PEC
- 2. Draw on environmental knowledge and expertise in the community
 - Provide advice and information to Council, Staff as required
- 3. Receive or initiate deputations from other organizations regarding other specific environmental concerns
- 4. Co-ordinate with experts and representatives of the public on a voluntary basis to collaborate on initiatives

 Advancing environmental aspects of Council's strategic priorities
- 5. Provide advice and information to Council and the Public through an annual report

Advance Environmental Aspects of Council's Strategic Priorities

- 1. Mitigate the effects of climate change
- 2. Encourage water and energy conservation measures
- 3. Foster waste reduction, reuse and recycling programs
- 4. Encourage conservation/restoration of natural features and habitats which support the community's unique ecology character and environmental assets
- 5. Identify new opportunities for business/ employment/ housing that climate change mitigation efforts may offer

Members of the Environmental Advisory Committee — established Feb 2020

Community

- Eva Bednarczuk (Vice Chair)
- Geoff Burt
- Rachel Kuzmich
- Vanessa Lavender (Youth Member)
- Jane Lesslie (Chair)
- Angus Ross

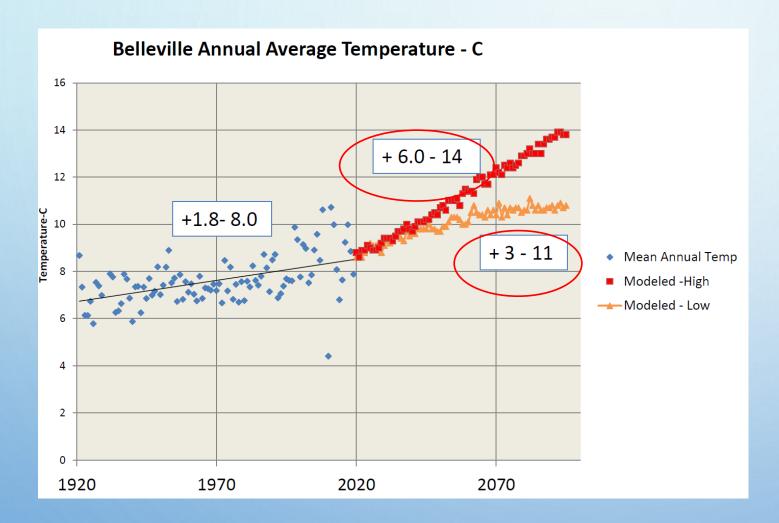
Councillors

- Stewart Bailey
- Steve Ferguson (Mayor)
- John Hirsch
- Kate MacNaughton

Technical Experts

- Mark Boone, Quinte Conservation
- Nicole Storms, Mohawks of the Bay of Quinte
- Jillian Van Patter, Hastings Prince Edward Public Health

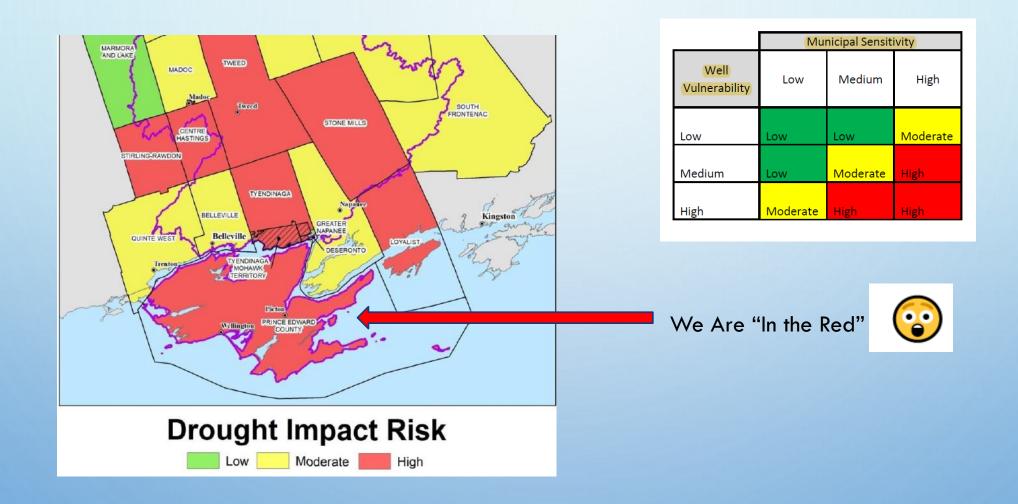
If "all politics are local" – well so is climate



2015 Paris Climate Agreement target 1.5°

Source: Quinte Conservation, presentation to PEC Environmental Advisory Committee, August 2020

THE PEC ENVIRONMENTAL DOUBLE WHAMMY - FLOODING AND DROUGHT PRONE!



Source: Quinte Conservation, Presentation by Mark Boone to EAC August 2020

Quick!
Which municipality in Canada has the longest shoreline?



PEC has 500 kilometres of shoreline*

So not surprising we spent \$1.7 million on flood damage in 2017 and 2019.

That's about 8.5% of our 2019 general spending

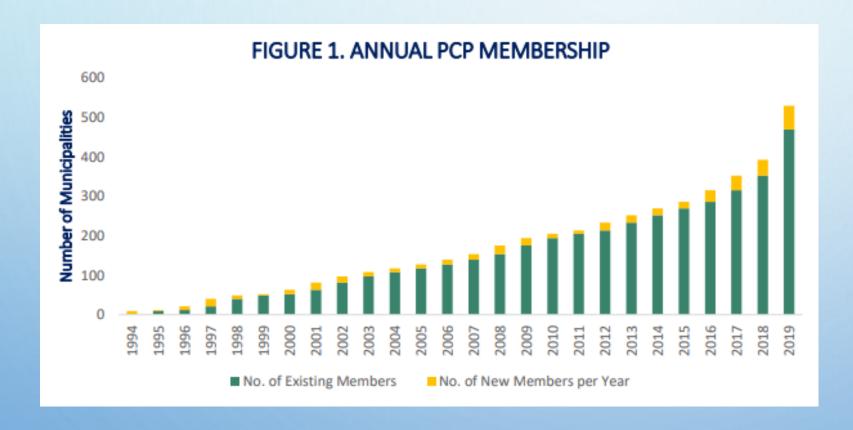
I believe that makes us a ...





^{*} Thanks for the heads up Councillor Hirsch!

TRENDS - Canadian Municipalities - Plenty of Great Ideas Out There



As of February 2021
500 Canadian municipalities are taking part in the 25 year old Partners for Climate Protection (PCP) program offered jointly through Federation of Canadian Municipalities and Local Governments for Sustainability (ICLEI) associations.

In 2018 it was 350

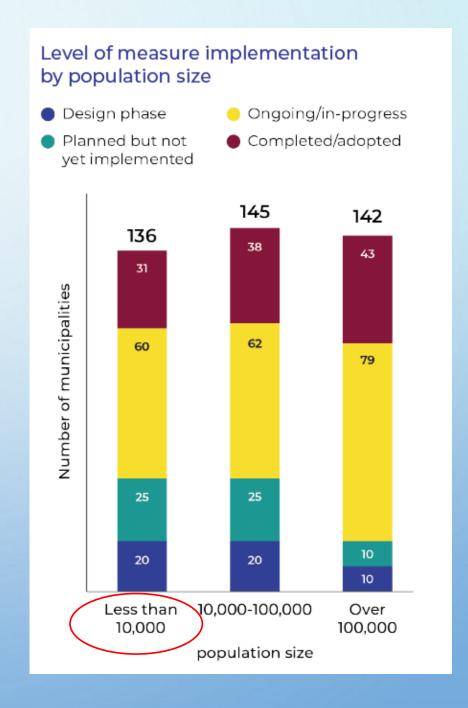
Source: Federation of Canadian Municipalities, 2019-2020 annual report

"Municipal governments currently have direct or indirect control over approximately 44% of green house gas emissions in Canada"

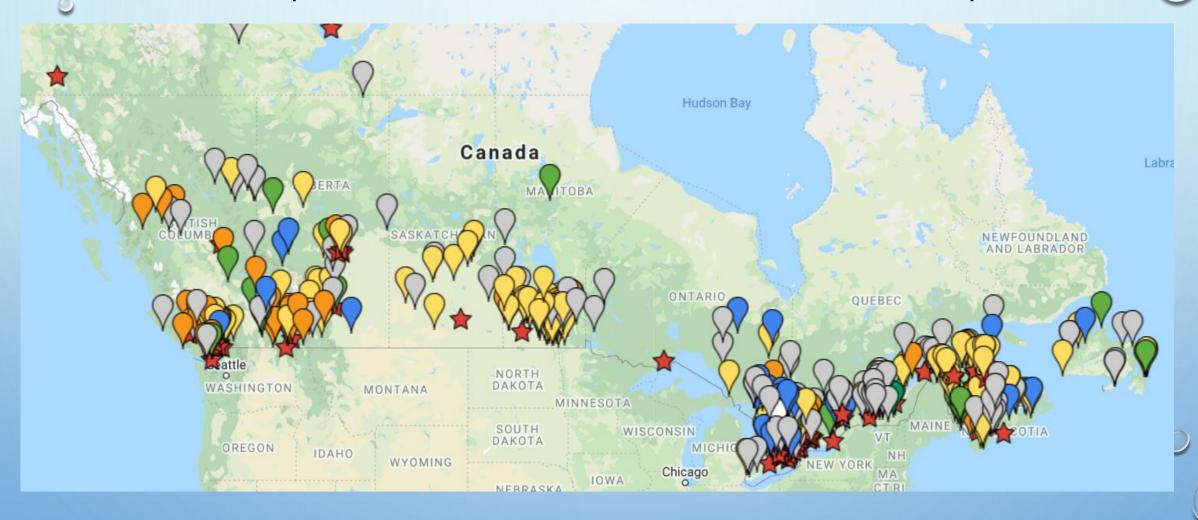
Federation of Canadian Municipalities (FCM)

"Yeah, but these are things only big cities can afford to do?"

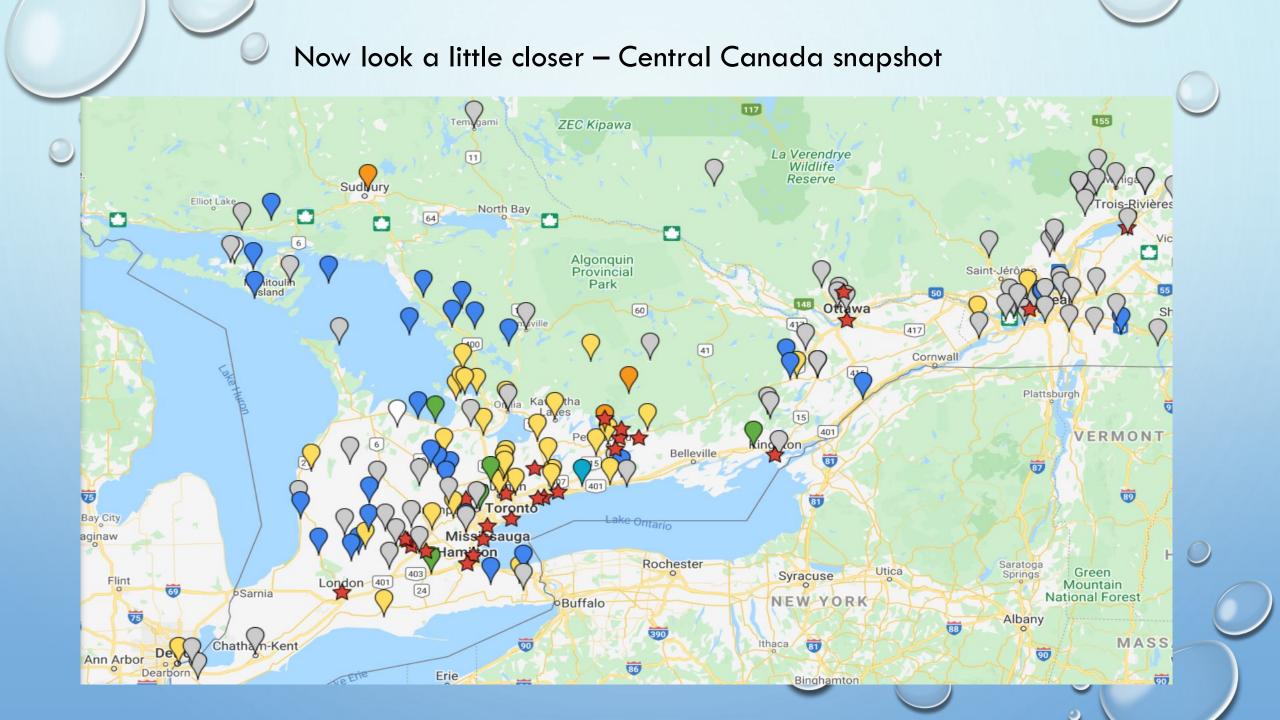




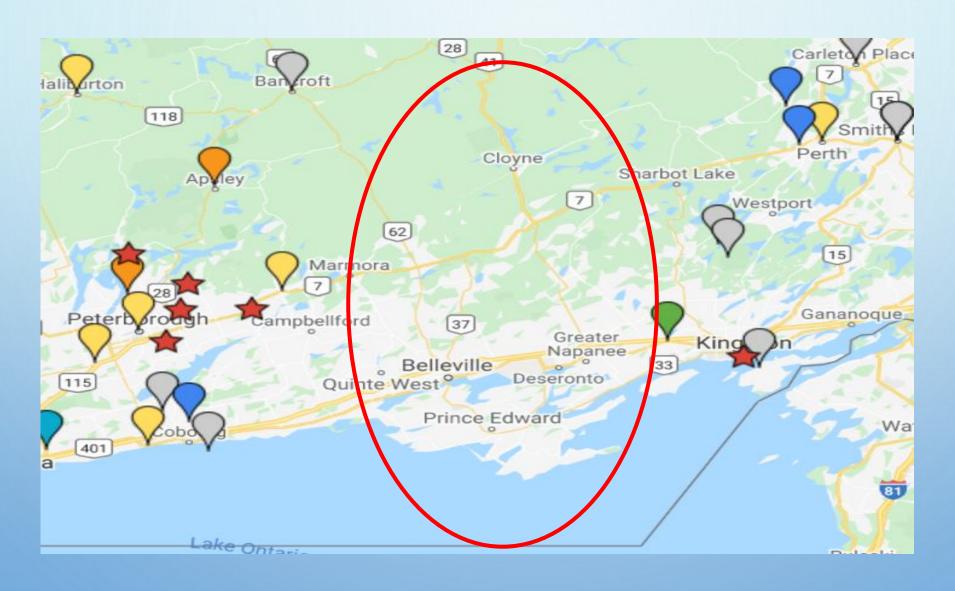
National Snapshot – Partners for Climate Protection Partner Municipalities



Partners for Climate Protection, Federation of Canadian Municipalities



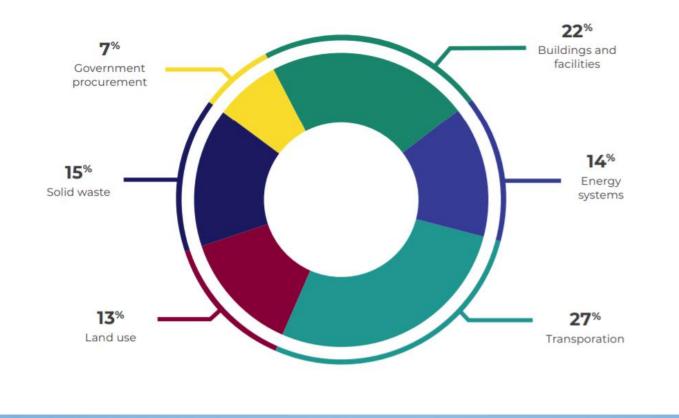
NOW CLOSER STILL....WE ARE IN A "DEAD ZONE"



PROFILE OF PCP INITIATIVES

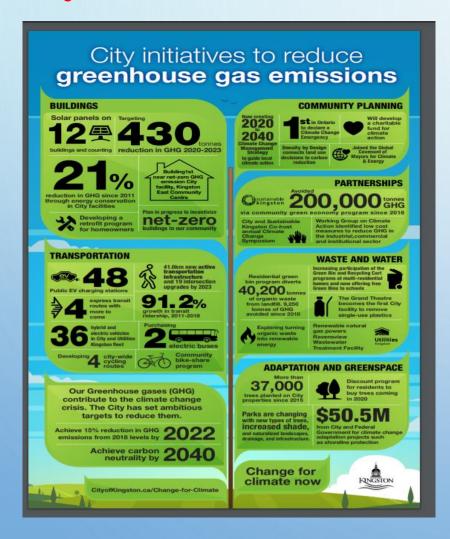
KEY TAKEAWAYS

65 PCP member municipalities reported 420 initiatives to reduce emissions across six sectors:



HOW ABOUT A LITTLE HEALTHY COMPETITION WITH THE NEIGHBOURS?

Kingston



Mohawks of the Bay of Quinte



The Adaptation Plan included a Cost-Benefit Analysis.

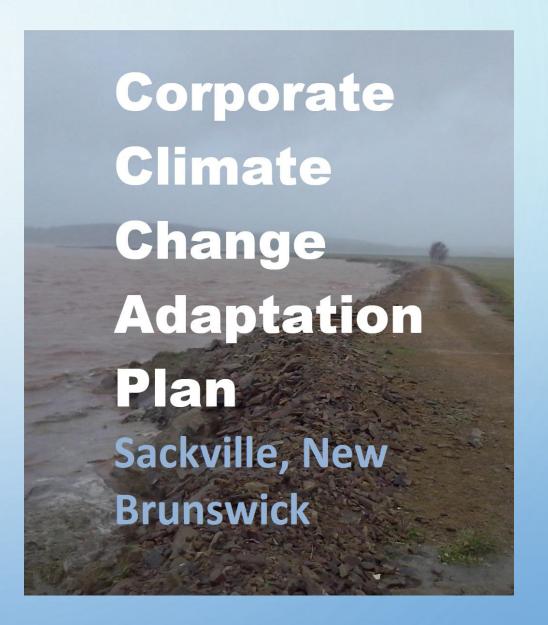
Water Specific Initiatives



Sackville Corporate Climate Change Adaptation Plan 2016

Executive Summary

Sackville, New Brunswick, located on the Chiqnecto Isthmus, is one of the most vulnerable regions to climate change impacts, in particular both freshwater and coastal flooding. Due to these well-known vulnerabilities, the Town of Sackville has taken a series of actions to adapt to climate changes already including adopting an updated flood risk map, the use of Sentinel (a public emergency alert system), an inventory of privately owned flat bottom boats that is regularly updated, and a series of public information sessions on adaptation issues in partnership with local researchers, planners, government and non-profits.



Water Specific Initiatives

Campbell River "Rising Seas" initiative is the 2020 winner in the climate change category FCM Sustainable Communities Awards

Campbell River BC, Population 35,000



CAMPBELL RIVER MIRROR



Participants were asked to work through a workbook about the issue of sea level rise. Photo, Mike Chouinard/Campbell River Mirror

Campbell River takes steps to plan for long-term sea level rise

Event at Maritim Heritage Centre was second of three public input events

MIKE CHOUINARD / Mar. 20, 2019 12:30 p.m. / LOCAL NEWS / NEWS

ENVIRONMENTAL SUCCESSES IN THE COUNTY 2020

LED STREET LIGHT INSTALLATION COMMENCES.

REDUCES GREEN HOUSE GAS EMISSIONS BY 25 METRIC TONNES, SAVES TAXPAYERS \$217,000

NEW TREE POLICY

THANK YOU AD HOC TREE ADVISORY COMMITTEE! — AFFECTS MUNICIPAL PROPERTY AND DEVELOPMENT PROJECTS

- NEW ANTI IDLING BYLAW
- NICOLE STORMS OF MOHAWKS OF BAY OF QUINTE JOINS EAC AS NEW TECHNICAL ADVISOR
 ENVIRONMENTAL SERVICES COORDINATOR FOR MBQ WHO HAVE ALREADY UNDERTAKEN A CLIMATE CHANGE AUDIT AND DEVELOPED PROGRAMS TO RESPOND
 GREAT OPPORTUNITY TO LEARN FROM THEIR EXPERIENCE, SHARE COMMON INITIATIVES.
- COUNCIL APPROVES DRAFT OFFICIAL PLAN

INCLUDES SPECIFIC WRITTEN COMMON STANDARDS FOR ALL ENVIRONMENTAL IMPACT STUDIES (EIS) FOR PROPOSED MAJOR DEVELOPMENTS AMONG THE GUIDING PRINCIPLES SET OUT – COUNTY WILL DEMONSTRATE ENVIRONMENTAL LEADERSHIP IN WATER RESOURCE MANAGEMENT COUNTY WILL PROMOTE CLIMATE CHANGE MITIGATION

50 METRE SETBACK ESTABLISHED FOR ALL WETLANDS, 120 METRES FOR PROVINCIALLY SIGNIFICANT WETLANDS

DEVELOPMENT CHARGES CAN BE ADJUSTED FOR BUILDERS ADOPTING GREEN BUILDING TECHNIQUES

MANAGER, PLANNING RECOMMENDED A BIOLOGIST ON RETAINER TO ASSIST IN WEIGHING COMPETING ARGUMENTS FROM DEVELOPMENT PROPONENTS AND OPPONENTS INCREASED DENSITY FOR SETTLEMENT AREAS – IMPROVES ACTIVE TRANSPORTATION PROSPECTS.

ENVIRONMENTAL SUCCESSES IN THE COUNTY – COMING UP

- SUSTAINABILITY SUPERVISOR AND SUSTAINABILITY TECHNICIAN BEING HIRED.
- ADOPT A TREE PROGRAM WILL INCREASE TREE CANOPY, REDUCE MAINTENANCE COSTS
- OPERATIONS AND RECREATION DEPARTMENTS TO WORK WITH NATURAL COVER GROUP ON NATURAL COVER OPPORTUNITIES TO IMPROVE COUNTY RESILIENCE – EG. SUPPORT BIO DIVERSITY, SUPPORT POLLINATORS ETC.
- PROPOSED SURVEY OF RESIDENTS FLOOD AND EXTREME WEATHER DAMAGE 2017-2019
- PROJECT WITH STUDENTS AT FLEMING COLLEGE ANALYZING PEC URBAN TREE COVER

CLIMATE CHANGE "CHANGES" EVERYTHING

- "THE MOST SERIOUS IMPACTS OF CLIMATE CHANGE ARE EXPECTED TO BE THE CHANGES IN CLIMATE EXTREMES" 1
- INCREASING "NINJA" STORMS/RAINFALL EVENTS: EXTREME RAINFALL OVER SHORT PERIODS OF TIME NOT FORECASTABLE 1
- FLOODING MORE PREVALENT AND SWINGS FROM WET TO DRY MORE VOLATILE MAKING FLOODING HAZARD MORE PRONOUNCED¹
- MORE ICE, MORE DROUGHT, MORE EXTREME HEAT

1 Independent review of the 2019 flood events in Ontario Report by Douglas McNeil, P.Eng. On behalf of John Yakabuski, Minister of Natural Resources and Forestry, Ont.



PEC has great beaches, but THIS is NOT a strategy





Thank You!



