Council Update on the Climate Change Adaptation Plan

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Background

Climate Change Adaptation Planning

- Commenced November 2019
- Completed several internal and external committee consultation activities
- Quarterly reports to Council on Climate Change Adaptation Plan progress
- Update to Council today
- Questions and comments



Vision Statement



Vision Statement for the Climate Change Adaptation Plan

"The Town of Essex will adapt to changing climate conditions and embrace new opportunities for a healthy, vibrant, and sustainable community benefiting residents, businesses and visitors."



Assessing Climate Impacts







Impact, Vulnerability, and Risk Assessments

Collected impact data from ICAT & ECAT, analyzed and developed list of Impact Statements

Examples:

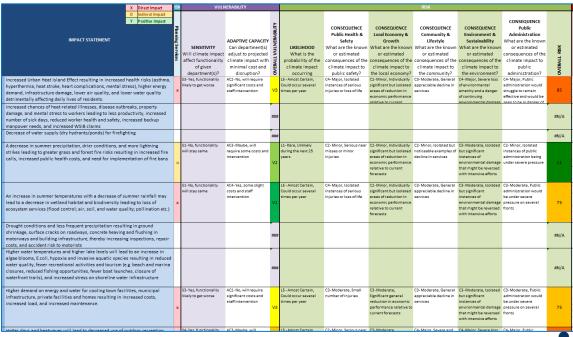




Impact, Vulnerability, and Risk Assessments

VA&RA conducted with ECAT and ICAT

- Input received from all Town divisions
- Input received from the following stakeholders:
 - ELK representative
 - ERCA representative
 - ECAT members
 (Agriculture, Water,
 Chamber of Commerce)
 - Council Appointee, Councillor Verbeek
- Additional research (ERCA regional data, Environment Canada)





Risk Prioritization

What climate change impacts have been identified as priorities for the Town of Essex?

Examples:

- Heat stress to residents, services, agricultural production
- Infrastructure damage from flooding
- Shoreline infrastructure damage
- Emergency resilience to extreme weather events



Impact, Vulnerability, and Risk Assessments

Public outreach activities conducted (Total responses: 57)

Essex Climate Adaptation Team Feedback Form The Town of Essex is seeking ongoing feedback from the community to inform the work of the Essex Climate Adaptation Team. Learn more at www.essex.ca/ECAT For questions about the how your feedback will be used, please contact the Town's Climate Change Analyst, Niharika Bandaru, at nbandaru@essex.ca or 519-776-7336 ext 1148. What is your name? * Where do you live in the Town of Essex? First and last name. Address or general location. Would you like to receive email updates about the work of the Essex Climate Adaptation Team? Yes \bigcirc No In what ways have you noticed or experienced the impacts of climate change in the community? What recommendations do you have on how the Town should adapt to the impacts of climate change?



Impact, Vulnerability, and Risk Assessments

Public outreach activities conducted (Total responses: 15)

Climate Impacts Vulnerability Exercise

The Climate Impacts Vulnerability Exercise presents six different fictional characters designed to represent some common attributes of Town of Essex citizens. Respondents will read the biographies of each character, including their employment, family life, hobbies, and life goals, then complete the exercise to identify how their chosen character would be impacted by climate change.

The character biographies are available online at www.essex.ca/ECAT

Which Town of Essex ward	What is your age?	What gender do you	How long have you lived in
do you live in?	○ Under 18	identify with?	the Town of Essex?
○ Ward 1	○ 18-29	○ Male	○ Less than 2 years
○ Ward 2	○ 30-39	○ Female	○ Between 2 and 5 years
○ Ward 3	○ 40-49	○ Non-binary	\bigcirc Between 5 and 10 years
○ Ward 4	○ 50-59	O Prefer not to disclose	\bigcirc Between 10 and 20 years
	O 60-69	○ Other	O More than 20 years
	○ 70 or older		

For which character would you like to complete the Climate Vulnerability Assessment for?

○ Darryl (Winegrower)
 ○ Gary (Farmer)
 ○ Mona (Student/Firefighter)
 ○ Lisa (Janitor)
 ○ Maria (Retiree)
 ○ Dylan (Researcher)

For each question below, please indicate whether the character you picked would have high, medium, or low vulnerability to that particular climate change impact.

Darryl, 48 year old winegrower from Colchester



Darryl

Age: 48 | Location: Colchester Job Title: Winegrower Family: Married, 3 children (Ages 19, 17, 9)

Family: Married, three children (aged 9, 17, 19).

Bio: Darryl's family has grown grapes for wine production in Colchester for over 20 years, which he inherited after university, In 2014 and 2019, extremely cold periods in the winter destroyed his grape buds and he spent the following year rebuilding the vines. His farm has an irrigation system; but, excessive precipitation in early spring; can damage

Maria, 75 year old retiree from McGregor



Maria

Age: 75 | Location: McGregor Job Title: Retired Family: Widowed, 1 child, 2 grandchildren

amily: Widowed, one child and one grandchild

Bio: Maria has been living in a retirement home for the last three years. She moved to Canada in her thirties from Romania with her husband and one daughter, and lived in Windsor-Essex County since. She is severely diabetic and cannot drive; so she walks to local shops, or relies on family and friends to take her to the mall or stores outside of McGresor. She likes to spend time with her grandfolds, who do visit her often, but she would like to take them to local



Dylan

Age: 32 | Location: Essex
Job Title: Researcher
Family: Divorced, one child (Age: 2)

Family: Divorced, one child (aged 2)

Bio: Dylan is a single parent who grew up in Essex. He travels often for his work as a contracted researcher, sometimes internationally, as his daughter stays in the care of his retired parents. He plans to find a full-time job locally, but is worried about the rising childcare costs until his daughter is old enough to go to school. Dylan rents a



Established Vision and drafted Corporate and Community Objectives

Used guidance and feedback from ICAT & ECAT members to create a Vision and

Objectives for the CCAP:

- Corporate Objectives
- Community Objectives









Current Tasks: Adaptation Planning

Finalize Objectives

Set Goals/Action Items

Assign Tools and Programs (Regulations, Plans, Standards & Codes, Operational Changes etc.)



Current Tasks

Finalizing Corporate and Community Objectives

Set Goals/Action Items

Set specific goals and define action items to help accomplish each objective

- Assign Tools and Programs
- Identify possible drivers and constraints
- Assign tools to address each action within risks
- Create corresponding programs to package risks, actions items, and corresponding tools



What's Next: Adaptation Planning

Develop Reporting System (Frequency and template of

reporting updates/progress)

Gap Analysis and Prioritization

Draft Climate Change Adaptation Plan



What's Next?

Develop Reporting System

Frequency and template of reporting updates/progress

Gap Analysis and Prioritization

Perform a gap analysis and prioritization

Establish implementation schedule

Drafting Climate Change Adaptation Plan (CCAP)



Final Tasks



January, 2021 Present Adaptation Plan to Council Council Adoption Implementation Updates Through Reporting System



Questions? Thank You.



