Synthesizing Climate Change Vulnerabilities in Peel

Laternell
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Policy Window

Global

Federal

Provincial

Municipal

[[Images of policy documents and stars indicating strength]]

Region of Peel
Working for you
The Peel Climate Change Strategy was adopted by Regional Council on June 23, 2011.

Partners have been attempting to achieve six goals by implementing 38 actions outlined in the Strategy:

Aiming to:
1. Reduce Community Vulnerability
2. Reduce Community Greenhouse Gases
3. Strengthen the Partnership

Partners:

- Brampton
- Town of Caledon
- CVC
- Mississauga
- Region of Peel
- Conservation for the Living City
Climate Change Strategy Goals (2011)

Goal # 1: Proactive and Responsive Planning and Leadership

Goal # 2: Targeted and Proactive Adaptation Actions

Complete vulnerability and risk assessments ... (Region of Peel to Lead)
Climate Change Planning Approach Adopted

**What**
1. Set Direction
2. Create Accountability
3. Apply Methods
4. Gather Evidence
5. Communicate the problem
6. Discuss solutions
7. Implement

**How**
- Policy / Programs
- Propose new or promote existing policy / programs
- Sources of Emissions and Local Impacts
- GHG inventory
- Vulnerability assessments
- Planning frameworks
- Form governance
- Adopt Strategy

Regions of Peel: Working for you
Terms of Reference (2014)

Vision
The Partnership will develop effective strategies and tools to address the impacts of climate change on the Region of Peel.

Background
The Partnership was formed by the Regional Municipality of Peel to develop strategies and tools to address the impacts of climate change on the Region of Peel.

Purpose of the Group
The Partnership will:
1. Develop strategies and tools to address the impacts of climate change on the Region of Peel.
2. Identify and prioritize adaptation opportunities.
3. Identify and prioritize mitigation opportunities.
4. Develop and implement adaptation and mitigation strategies.
5. Establish partnerships with other organizations.
6. Develop and implement a communication plan.
7. Establish and implement a financial plan.
8. Establish and implement a governance plan.
9. Establish and implement a monitoring and evaluation plan.

Membership and Responsibilities
- Members of the Partnership will:
  - Participate in regular meetings and provide comments and feedback on the work of the Partnership.
  - Provide financial support to the Partnership.
  - Provide technical support to the Partnership.
  - Provide legal and regulatory support to the Partnership.

September 2, 2014
Terms of Reference – Adaptation Workgroup
Planning Framework and Assessments

Adaptation Planning Framework Adopted (ICLEI)

MILESTONE 1: Initiate
- Identify stakeholders
- Build climate change adaptation team
- Identify an adaptation champion
- Take a first look at climate change impacts and existing adaptation actions
- Pass council resolution and community charter

MILESTONE 2: Research
- Initiate research on climatic changes
- Refine impacts and consider service areas for each
- Vulnerability assessment (study of sensitivity and adaptive capacity)
- Risk assessment (consequence and likelihood of impacts) and prioritization

MILESTONE 3: Plan

MILESTONE 4: Implement

MILESTONE 5: Monitor & Review

Assessments
- Climate Trends
- Public Health
- Agriculture
- Near Shore Assets
- Natural Systems
- Infrastructure

Economic

Synthesis Report

Region of Peel
Working for you
Assessment Review Process

Public Health
- Select Stakeholders (PAAWG, etc.)
  - Subject Matter Experts

Economy
- Select Stakeholders
  - Subject Matter Experts

Agriculture Assessment
- Select Stakeholders (PAAWG, etc.)
  - Subject Matter Experts

Port Credit Assessment
- Select Stakeholders
  - Subject Matter Experts

Natural Systems Assessment
- Core Advisory Team
  - Subject Matter Experts

Municipal Adaptation Working Group
- Stakeholder Engagement Process

Technical Reports

Legend
- Ongoing Project
- Consultation and Review
- Product

Synthesis Report
Synthesis Report - Process

Vulnerability Assessments

<table>
<thead>
<tr>
<th>Agriculture</th>
<th>Cooksville Infrastructure</th>
<th>Natural Systems</th>
<th>Port Credit</th>
<th>Public Health</th>
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</thead>
<tbody>
<tr>
<td>Vulnerabilities generated through evidence based process</td>
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Key Findings

Narrative, history, process description, next steps

Synthesis Report

Stakeholder Consultation

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<td>Vulnerabilities generated through stakeholder engagement and analysis</td>
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Region of Peel
Working for you
Draft Assessment Reports

Climate Trends and Future Projections in the Region of Peel
Technical Report
October, 2015
Prepared for:
Prepared by:

Climate Change Effects on Agricultural Production in the Region of Peel
An assessment of vulnerabilities and potential opportunities
June, 2015
Prepared:
Prepared by:

Climate Change Vulnerabilities of the Natural System in the Region of Peel
August, 2015
Prepared:
Prepared by:

Cooksville Creek and Peel Water Infrastructure Vulnerability Assessment in the Region of Peel

Climate Change Vulnerabilities of Community Services and Assets in the Region of Peel
A case study in Port Credit
July, 2015
Prepared:
Prepared by:

Working for you
Draft Vulnerability Interactions So Far

Source: Bennett; Blythe; Tyler; Ban (2015) Communities and change in the anthropocene: understanding social-ecological vulnerability and planning adaptations to multiple interacting exposures
Transitioning to Milestone 3: Plan

**MILESTONE 1: Initiate**
- Identify stakeholders
- Build climate change adaptation team
- Identify an adaptation champion
- Take a first look at climate change impacts and existing adaptation actions
- Pass council resolution and community charter

**MILESTONE 2: Research**
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- Refine impacts and consider service areas for each
- Vulnerability assessment (study of sensitivity and adaptive capacity)
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**MILESTONE 3: Plan**
- Establish adaptation vision and objectives
- Set goals
- Identify options and actions
- Identify possible drivers and constraints
- Evaluate actions against drivers and constraints
- Determine appropriate baseline and indicator data
- Examine financing and budget
- Establish implementation schedule
- Create action plan
- Launch plan

**MILESTONE 4: Implement**

**MILESTONE 5: Monitor & Review**
Strategic Plan (2015-2035)

**Vision:** Community for life

- with you to create a healthy, safe and connected community
- Brand: Working with you

**Term of Council Priorities**

- **Living**
  - Reduce poverty
  - Increase affordable housing
  - Increase stable employment

- **Thriving**
  - Increase waste diversion
  - Adapt to and mitigate the effects of climate change
  - Promote healthy and age-friendly built environments
  - Improve goods movement
  - Plan and manage growth

- **Leading**
  - Modernize service delivery
  - Attract and retain top talent
  - Create a modernized workplace

**4 Years**

**20 Years**
Thank You

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