10TH REPORT OF THE

ADVISORY COMMITTEE ON THE ENVIRONMENT

Meeting held on October 5, 2016, commencing at 12:19 PM, in Committee Room #4, Second Floor, London City Hall.

PRESENT: M. Bloxam (Chair), K. Birchall, S. Brooks, S. Hall, M. Hodge, J. Howell, L. Langdon, S. Ratz, G. Sass, N. St. Amour, T. Stoiber, D. Szoller and A. Tipping and H. Lysynski (Acting Secretary).

ABSENT: R. Harvey.

ALSO PRESENT: T. Arnos, E. Kuisma and C. Warring.

I. CALL TO ORDER

1. Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

II. SCHEDULED ITEMS

2. Implementing Sustainability Plans

That the Civic Administration BE REQUESTED to provide the Advisory Committee on the Environment (ACE) with responses to the following, with respect to municipal sustainability plans:

- a) an outline on the expenditure of gas tax funding; and,
- b) the monitoring that is being undertaken for the utilization of gas tax funding;

it being noted that the ACE received the <u>attached</u> presentation from Dr. B. Vogel, Response Coordinator, Post-Doctoral Research Fellow, Marine Environmental Observation Prediction and Response Network, and Dr. G. McBean, FRSC and Professor, Cross Appointment with Political Science, with respect to this matter.

III. CONSENT ITEMS

3. 9th Report of the Advisory Committee on the Environment

That it BE NOTED that the 9th Report of the Advisory Committee on the Environment from its meeting held on September 7, 2016, was received.

4. 8th Report of the Transportation Advisory Committee

That it BE NOTED that the 8th Report of the Transportation Advisory Committee from its meeting held on September 6, 2016, was received.

5. 10th Report of the Environmental and Ecological Planning Advisory Committee

That it BE NOTED that the 10th Report of the Environmental and Ecological Planning Advisory Committee from its meeting held on September 15, 2016, was received.

6. 5th Report of the Agricultural Advisory Committee

That it BE NOTED that the 5th Report of the Agricultural Advisory Committee from its meeting held on September 21, 2016, was received.

7. Municipal Council Resolution - 8th Report of the Trees and Forests Advisory Committee

That it BE NOTED that the Municipal Council resolution adopted at its meeting held on September 13, 2016, with respect to the 8th Report of the Trees and Forests Advisory Committee, was received.

IV. SUB-COMMITTEES & WORKING GROUPS

8. Joint Education and Outreach

That it BE NOTED that the Advisory Committee on the Environment heard a verbal presentation and reviewed and received a communication from S. Ratz, with respect to the joint discussion of the Advisory Committees held on September 21, 2016.

V. ITEMS FOR DISCUSSION

9. Urban Agriculture Conference Update

That it BE NOTED that the Advisory Committee on the Environment (ACE) heard a verbal presentation from G. Sass with respect to the upcoming Urban Agriculture Conference, including a proposed Conference Budget; it being also noted that the ACE expressed its appreciation to the London Public Library for their assistance thus far.

10. Urban Agriculture Strategy

That the Civic Administration BE REQUESTED to:

- a) actively involve the Advisory Committee on the Environment (ACE) in the process for the preparation of the draft Terms of Reference for the development of an Urban Agriculture Study; and,
- b) continue to provide staff reports relating to this matter to the ACE;

it being noted that the ACE reviewed and received the following with respect to this matter:

- a Municipal Council resolution from its session held on September 13, 2016;
- the Urban Agriculture Strategy Draft Terms of Reference; and,
- a communication dated September 1, 2016, from M. Temme, 66 Palmer Street.
- 11. ACE Representative on the Middlesex-London Food Policy Council

That the Middlesex-London Food Policy Council BE REQUESTED to amend their Terms of Reference to accommodate a member of the Advisory Committee on the Environment to be appointed to the Middlesex-London Food Policy Council, as a Voting Representative.

12. ACE Work Plan

That it BE NOTED that a general discussion was held with respect to the 2016 Advisory Committee on the Environment (ACE) Work Plan.

13. Sub-Committee Membership

That it BE NOTED that the Sub-Committee Membership List was amended to include Celeste L. as a representative on the "Food – new food policy council" sub-committee.

14. Budget

That the following actions be taken with respect to the 2016 Advisory Committee on the Environment (ACE) Budget:

- a \$75.00 honorarium for her presentation at the September 7, 2016 ACE meeting BE PROVIDED to J. Brady, Consultant, with respect to the Trans Pacific Partnership;
- b) up to \$500.00 BE PROVIDED for expenditures relating to the Urban Agriculture Conference; and,
- c) a potential request for funding for future Conferences BE POSTPONED until after the Urban Agriculture Conference has been concluded; it being noted that a review of the Urban Agriculture Conference will be completed at the conclusion of the Conference.

VI. DEFERRED MATTERS/ADDITIONAL BUSINESS

15. (ADDED) Municipal Council Resolution - 9th Report of the Advisory Committee on the Environment

That it BE NOTED that a Municipal Council resolution adopted at its meeting held on September 27, 2016, with respect to the 9th Report of the Advisory Committee on the Environment, was received.

VII. CONFIDENTIAL

(Confidential Appendix enclosed for Members only.)

The Advisory Committee on the Environment convened in camera from 2:47 PM to 2:50 PM after having passed a motion to do so, with respect to the following matter:

C-.1 A matter pertaining to personal matters about identifiable individuals including municipal or local board employees, relating to the 2017 Mayor's New Year's Honour List

VIII. ADJOURNMENT

The meeting adjourned at 2:55 PM.

NEXT MEETING DATE: November 2, 2016



Municipal Sustainability and Climate Change Actions 400ppm and the 1.5°C - 2°C degree challenge for 2050 Complexity and uncertainty: long range development pathways and climate inertia Local GHG impacts: transportation, buildings, lighting, energy, sustainability initiatives (e.g. local food systems) Local climate impacts: flooding, extreme weather events (e.g. drought, heat waves, wildfire, storms, hurricanes) The "Big Picture" imperative to sustainably adapt: 'Moderate Harm and Take Advantage of

Opportunities

Majority support for national carbon price

Nanos Research: September 24-27,2016 (n=1000)

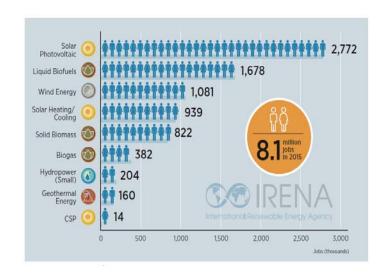
Considered accurate within plus or minus 3.1 percentage points, 19 times out of 20.

77 percent of respondents supported or somewhat supported creating a national plan in order to achieve the carbon cuts Canada agreed to under the Paris accord.

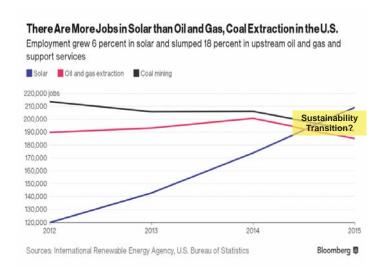
59 per cent supported or somewhat supported pricing emissions, with 62 per cent saying they'd support a minimum carbon price that applies across the country.

Statistics Canada: Survey of Employment, Payroll and Hours (SEPH): December 2014 until April 2016 - 33,049 jobs directly or indirectly lost in association with the downturn in oil prices











NMAP- Hanna et al., 2013

Why do some communities plan for adaptation? 5 key characteristics

- Leadership (especially planners and other civic staff)
- 2. Internal planning and policy capacity
- 3. Knowledge and awareness of adaptation
- 4. Provincial policies to encourage (require) and support (fund) [E.g. Nova Scotia MCCAP]
- Bad experiences, weather events, and making connections to a climate change future. Bad weather is an unfortunate wake-up call. [E.g. Hurricane Juan; Post Tropical Storm Arthur]

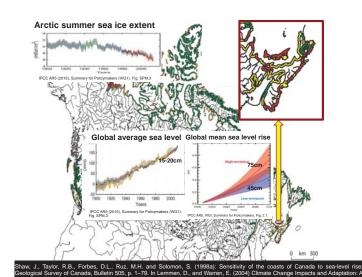
481 responses 95% confidence level, 4.16 confidence interval

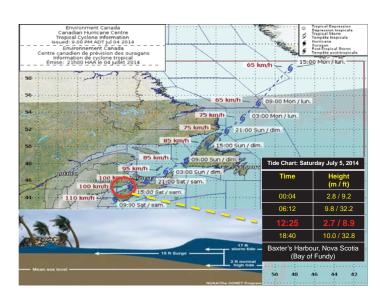


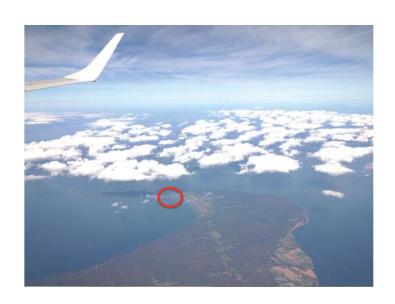
Numerous constraints on climate preparedness that fall beyond the scope of local jurisdiction, expertise and/or funding capacity.

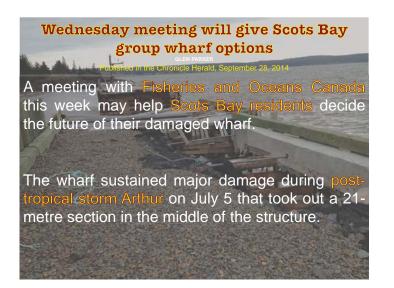
- Lack of resources
- Lack of broader concern and political will
- Desire for local efforts to be supported by stronger leadership at provincial, federal and international levels on climate change issues in order help accelerate the pace of local climate adaptation











Adaptation: Adjustments in human and natural systems in response to actual and/ or expected climatic stimuli and/or effects in order to moderate harm or exploit beneficial opportunities

IPCC, 2001

Adaptive capacity of human systems is a function of:

economic resources

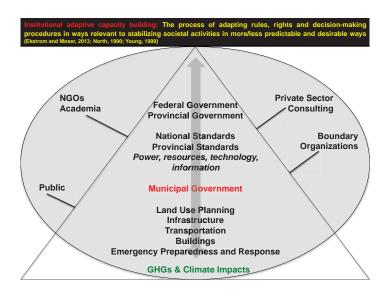
access to technology

•access to information on climate variability and change and skills to make use of the information

•institutions

equitable distribution of resources

Smit and Wandel, 2006



SUSTAINABILITY POLICY

Adaptation policy:

"The process leading to the production of outputs in forms of activities and decisions taken by purposeful public and private actors at different administrative levels and in different sectors, which deals intentionally with climate change impacts, and whose outcomes attempt to substantially impact actor groups, sectors, or geographical areas that are vulnerable to climate change"

"...to promote resiliency, without compromising the abilities of future generations to meet their own needs...'

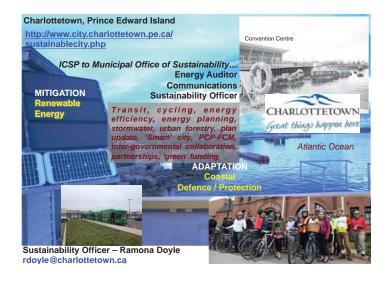
Dupuis and Biesbroek, 2013

BARRIERS TO LOCAL ADAPTATION Issues Issues Autitudes, values, values

Source: , Ekstrom, J & Moser, S. (2013). Ch. 6: Institutions as a key element to successful climate adaptation processes. In: Successful Adaptation to Climate Change. Routledge.

Figure 6.3 Frequency of different types of barriers encountered





Recognizes the commitment of a municipality to environmentally sustainable governance, to protecting the environment and to combating climate change. Awards are granted to programs, projects or services that have made a significant and positive impact on the environment.

Petitoodiac River

Moncton, New Brunswick

**Part of the implementation plan identified in the City of Moncton Climate Change Adaptation and Flood Management Strategy (2013) included the need to establish best practices, guidelines and standards for naturalized approaches to stormwater management.

The strategy establishes practices, guidelines and standards for naturalized approaches to stormwater management, utilizing a multidisciplinary approach from a broad range of fields. These standards have been adapted to reflect Moncton's context, in regards to existing standards, local soil types, climate and environmental characteristics.

These guidelines, for new communities and developments, strive to:

**Minimize the threat of flooding by simulating pre-development responses to storms as outlined in the City of Moncton Design Criteria Manual for Municipal Services;

**Protect receiving water bodies and surrounding wetlands from deterioration in water quality, and prevent erosion or sedimentation of natural wetlands or rivers;

d stormwater systems; and

Enhance and b

https://www.moncton.ca/Residents/Environment/Green_City.htm?PageMode=Print





Leon DeVreede Sustainability Planner (902)541-4390 Idevreede@bridgewater.ca



A "sustainable" community: one that can support an attractive economy, serving a healthy and equitable population, all living within the Earth's means.





What are the social factors that impacted municipal climate change adaptation policy and planning processes in the multi-level governance context of Nova Scotia's MCCAP?

Adaptation initiation:

Agenda-setting and problem framing

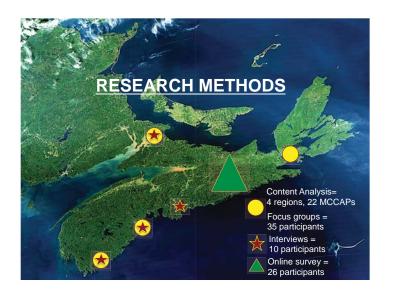
Adaptation capacity-building:

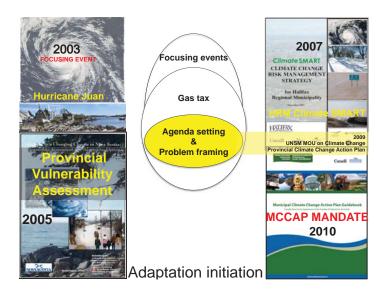
Formulating options and risk prioritization processes

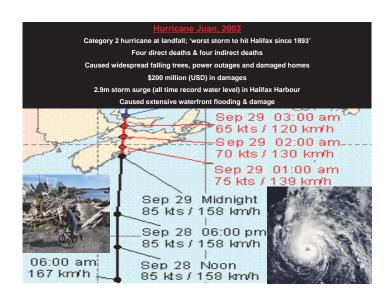
Adaptation integration:

Stakeholder and public engagement Political support

Based on: Corfee-Morlot et al., (2009), Horak (2012) and Vogel and Henstra (2015).







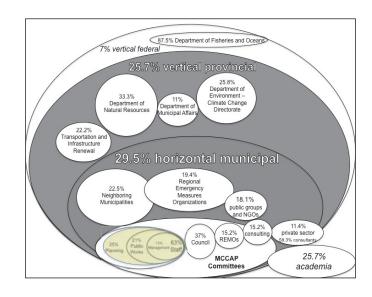


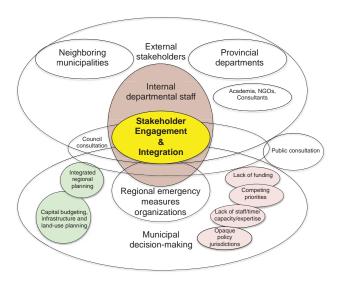
Plan

External collaborations with consultants, academics and the Provincial government enabled municipal capacity-building for adaptation planning.

Regional collaboration enables municipal capacity-building, with important facilitation roles for emergency measures organizations.

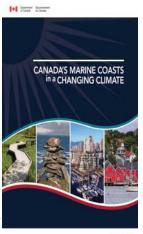
Internal staff capacity supports and enables institutional adaptive capacity building for sustainability and climate change planning and policy at the municipal scale.





Adaptation policy failure may be associated with problems of inter-governmental collaboration, opaque policy jurisdictions, limited access to information, poor access to funding, barriers to horizontal emergency planning collaboration and a lack of coordinated coastal land use planning reform to address climate risks at regional scales.

There are considerable opportunities in the East Coast region to increase the capacity for adapting to climate change and implementing effective adaptation measures to address coastal risks. Basic steps include increasing awareness, engaging and empowering stakeholders, reviewing and adjusting legislation and codes of practice where appropriate, enhancing inter-jurisdictional collaboration, and addressing regional and local differences in adaptive capacity. Adaptation is fundamentally a social process that leads to modification of long-standing



Canada

Lemmen, D.S. and Warren, F.J. (2016): Synthesis; in Canada's Marine Coasts in a Changing Climate, (ed.) D.S. Lemmen, F.J. Warren, T.S. James and C.S.L. Mercer Clarke; Government of Canada, Ottawa, ON, p. 17-26.

Adaptive capacity of human systems is a function of:

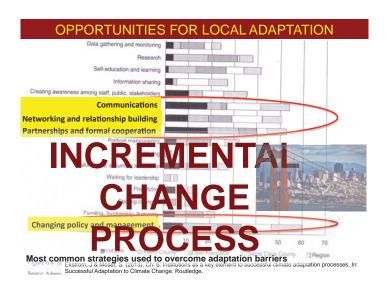
•economic resources
•access to technology
•access to information on climate variability and change and skills to make use of the information
•institutions
•equitable distribution of resources

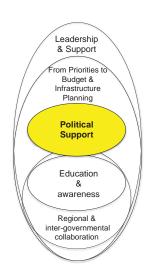
•access to information on climate variability and change and skills to make use of the information
•institutions
•equitable distribution of resources

•novascotta

increasing awareness
engaging stakeholders
reviewing and adjusting legislation and codes of practice
enhancing inter-jurisdictional collaboration

HALIFAX

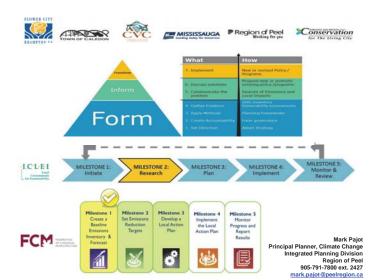




London, Ontario: Council Strategic Plan 2015-19 BUILDING A SUSTAINABLE CITY



There remains substantial institutional and governance barriers within and between all partner agencies that prevents appropriate collaborative high impact actions from being implemented on the ground where it matters.





Enabling conditions for implementing climate change actions

- I. leadership
- 2. a transparent inclusive structured and integrated planning process,
- 3. central management and coordination by planning staff,
- in-depth research and analysis (information and data) involving extensive coordination and collaboration,
- 5. subject matter advice to mobilize knowledge and social learning,
- 6. an openness for innovation and,
- 7. evidence informed policy-making, a plan, budget and
- comprehensive public outreach process to educate the general public about climate change and generate policy support.



Two key constraints were identified:

- Gaps in strategic communications planning to overcome internal and external misperceptions of climate change risk and competing values.
- 2. Gaps in project planning to better align strategic planning efforts with partnership based work plans.

To:
Date: March 28, 2016
From: Mark Pajot Subject: Results from rapid climate change capacity assessment.

Recommendations

Direct request for <u>staff support</u> from Corporate Project Management Office and Communications

Services to work more closely to align corporate plans and strategic communications with existing Partnership based activities and work plans.

Develop corporate wide and <u>community climate change</u> <u>engagement and outreach plan</u> using evidence from Partnership work as an immediate corporate priority.

What do you see as future directions for the monitoring and evaluation of implementing MCCAP priorities? Can academia support this process?

MCCAP Focus Group M&E Suggestions

Monitoring the integration and enforcement of MCCAP: Gauging effectiveness and implementation progress through: Capital Investment Planning, staff reporting on MCCAP priorities and/or MCCAP 'Report Cards' / annual review processes

Identifying, initiating, supporting and/or communicating opportunities for multi-level governance co-operation and leadership on climate change adaptation

Providing MCCAP synthesis to support with developing provincial adaptation priorities, strategies and policy instruments (best practices and research information) - GAS TAX CAPACITY BUILDING FUNDING FOR STAFF (85% survey agreement, 36% representative of NS municipalities)

Providing monitoring, data collection and feedback for municipal adaptation decision-making and prioritization (ex. coastal erosion and climate impacts)

Focus group results based on 19 responses

NS: Gas tax capacity-building

The gas tax agreement details how municipalities may use gas tax capacity-building funds for developing and implementing: 'studies, strategies, or systems related to asset management, which may include software acquisition and implementation [and] training directly related to asset management planning and, long term infrastructure planning' in order to 'strengthen the ability of municipalities to improve local and regional planning, including capital investment plans, integrated community sustainability plans, life-cycle cost assessments, and asset management plans'

However, ineligible expenditures are 'salaries and other employment benefits of any employees of the Ultimate Recipient [municipality], its direct or indirect operating or administrative costs of the Ultimate Recipient [municipality], and more specifically its costs related to planning, engineering, architecture, supervision management and other activities normally carried out by its staff, except in accordance with eligible categories' (NS-Canada Gas Tax Agreement 2014-2024: Schedule B, Item 18 & Schedule C, Items 1b & 2c)

