



# Clean Foundation:

Municipal Climate Action in Nova Scotia

NSFM Spring 2019

# Clean Foundation Background:



Non-profit environmental NGO



Focused on building effective partnerships among diverse organizations.



Goals are to work towards positive environmental change and to support clean lands, clean waters and a clean climate.



We do this by working with a broad network of intergovernmental groups, NGO's the private sector and others.

# The “Agenda”

- ▶ Discuss two programs
- ▶ Application & Access
- ▶ Results
- ▶ Next Steps





# Municipal Climate Innovation Program

- ▶ Designed to support sustainable and reliable services in communities with training, funding and resources.
- ▶ Focused on assessing climate risk from flooding, sea level rise, extreme weather events.
- ▶ Support the design and implementation of resilient communities.

# Nova Scotian Participants:

- ▶ Annapolis
- ▶ Cumberland
- ▶ Digby
- ▶ Halifax
- ▶ Kings
- ▶ Lockeport
- ▶ Yarmouth



# Application



Workshop based designed to facilitate discussion between municipal partners, service providers and industry experts.

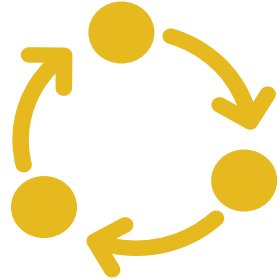


Involved engineers, conservation specialists, GIS techs, elected officials and others.

# Results of MCAI



7 Towns &  
Municipalities



Collaboration  
and shared  
resources.



Project  
management  
goals, targets  
and tools.



Delivery of  
Municipal Toolkit





# Action Plans

- ▶ Envisioned to prioritize impacted areas and develop cost-effective natural, engineered and socio-economic adaptation strategies.

Natural	Engineered	Socioeconomic & Political
Preservation of Habitat	Low Impact Development “LID”	Incentivize low impact development
Restoration of Habitat	Infrastructure retrofiting & energy reliability	Land use planning & EMO planning
Living shoreline	Armored shoreline	SLR Setback Policies
Rain Garden(s) & Bio-swales	Rain Barrels' & Cisterns	Incentives/Easements for rain barrels, property water maintenance.

# Next Steps:

**Phase 1 -**  
Kick-off, MCCAPs  
review &  
Vulnerability  
Identification

**Phase 2 -**  
Identification of  
Implementation  
Barriers & Mitigation  
Strategies

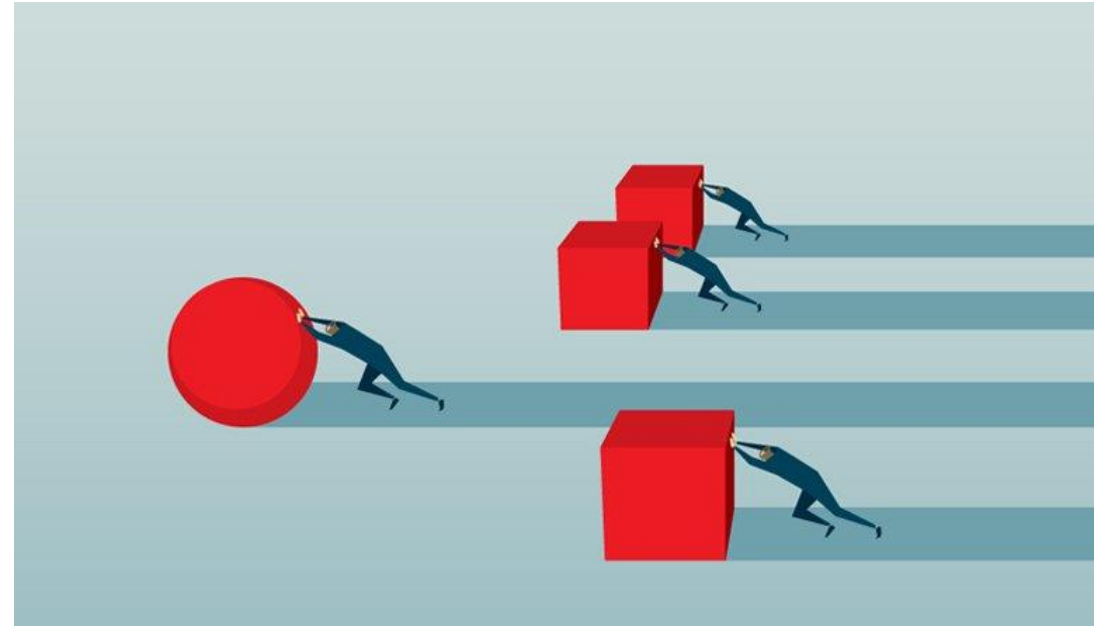
**Phase 3 - Barrier  
Reduction Education  
& Action Planning**

**Phase 4 - Educating  
Key Municipal  
Stakeholders & Next  
steps**

**Phase 5 -Evaluation  
& Close Out**

# Next Steps Continued

- ▶ Moving forward we are taking a two-pronged approach to supporting municipal climate change.
- ▶ A) Natural & Engineered Adaptation Strategies
- ▶ B) GHG Emission Inventory & Mitigation Efforts / Cape & Trade Participation



1

Ground truthing  
& qualitative  
needs  
assessment.

2

Quantitative  
hazard and  
vulnerability  
assessment.

3

Hydrological  
modelling, sea  
level rise and  
flood mapping.

4

Prioritization of  
impacted areas.

5

Development of  
natural and  
engineered  
adaptation  
solutions.

6

Cost Benefit  
Impact Analysis

7

Project  
Management &  
Implementation

# Steps to Adaptation:



FEDERATION  
OF CANADIAN  
MUNICIPALITIES

FÉDÉRATION  
CANADIENNE DES  
MUNICIPALITÉS

## How to Participate

- ▶ <https://fcm.ca/en/programs/municipalities-climate-innovation-program>
- ▶ Search for the FCM Website + MCIP or “municipal climate innovation program”
- ▶ Also of help is the “Green Municipal Fund”

# Transition 2050

New two year project (April 2019)

FCM Funded focusing on training and support for climate mitigation, greenhouse gas accounting and reduction strategies.

Highly collaborative with a focus on regional reduction strategies, peer to peer learning and networking to share resources.

# Partners for Climate Protection

Federation of Canadian Municipalities umbrella program covering climate adaptation, mitigation and resiliency.

The program runs through a five-step milestone framework to act on reducing emissions in your municipality.

*Milestone 1: Create a Baseline Emissions Inventory and Forecast*  
*Milestone 2: Set Emissions Reduction Targets*  
*Milestone 3: Develop a Local Action Plan*  
*Milestone 4: Implement the Local Action Plan*  
*Milestone 5: Monitor Progress and Report Results*

# Application:

- ▶ Reduce harmful (GHG)
- ▶ Health benefits (Air Quality)
- ▶ Economic benefits (Cap & Trade)
- ▶ Environmental benefits (Contamination)
- ▶ Resiliency benefits (Diversified energy)





# Forecasted Results

Receipt of Greenhouse Gas Inventories & Forecast Models.

Community tailored GHG reduction & climate action plans.

Access to PCP framework & tools.

Access to collaborative network of climate professionals across Canada.

Access to significant amounts of funding \$\$\$\$.

# How to Participate

- ▶ <https://fcm.ca/en/programs/municipalities-climate-innovation-program>
- ▶ Search for the FCM Website + Transition 2050 / Partners for Climate Protection
- ▶ Also of help is the “ICLEI Canada” PCP Tool & Framework



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# Opportunities

- ▶ Huge opportunity for recent graduate employment and for retraining professionals from “sunset industries”
- ▶ Good platform for review & “jumping off point” for future projects.
- ▶ Abundant opportunities for inter-governmental and inter-sectoral engagement on all levels
- ▶ Momentum Building with capacity for great public outreach, positive media stories and more.
- ▶ Opportunities to build back better

# Final Thoughts & Outcomes

- ▶ The T2050 and MCIP projects are a great starting point but are non binding.
- ▶ Action or Evaluation?
- ▶ Work is needed on prioritizing impacted areas.
- ▶ Work is needed on developing local solutions for local issues.



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▶ Questions?