

# Municipal and Provincial Collaboration on Climate Action:

## The BC Experience

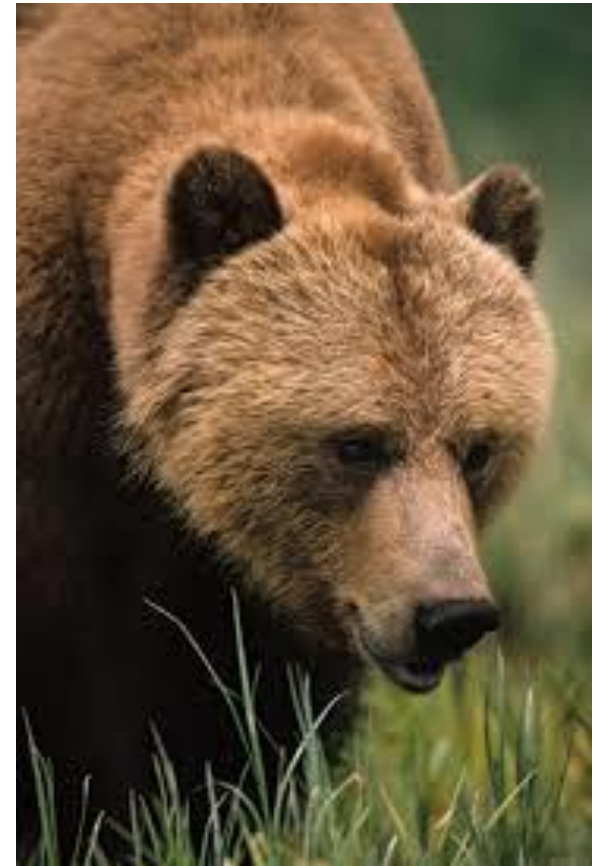
June 12, 2015

Ben Finkelstein  
Climate Action Secretariat  
Ministry of Environment

Ted Sheldon  
Electricity and Alternative Energy  
Ministry of Energy and Mines

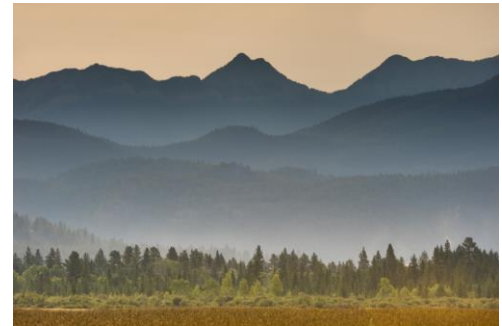
# British Columbia Communities

1. Setting the table on climate
2. Local Government Act
3. Climate Action Charter
4. Community Energy and Emissions Inventory
5. Discussion



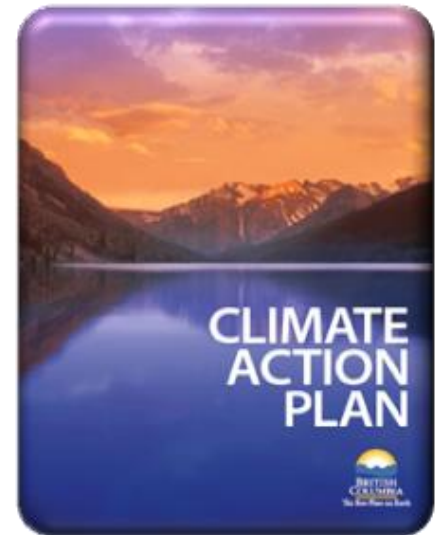
# British Columbia Communities

- 4.6 m population
- 95 million ha
- 29 Regional Districts
- 190 local governments
- 200 First Nations



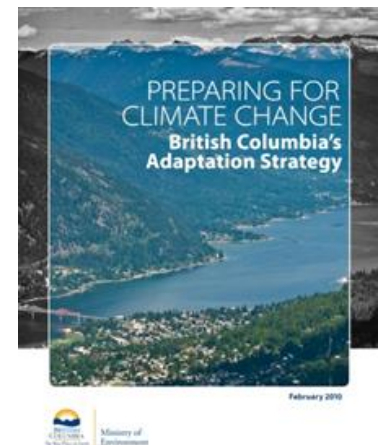
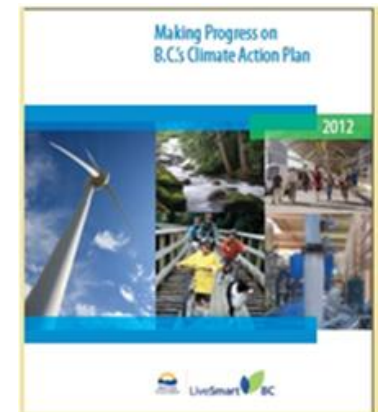
# In the beginning...

- Premier's 2007 Throne Speech
- Climate Action Plan
- Early Ambassadors
  - Premier's Climate Action Team
  - Citizen's Conservation Council on Climate Action
- Lead Organizations
  - Climate Action Secretariat
  - *Green Communities Committee – Province + Union of BC Municipalities*
- Legislation, Policies and Programs:
  - Greenhouse Gas Targets Reductions Act
  - Carbon Neutral Public Sector
  - LiveSmart BC
  - Local Government (Green Communities) Act
  - Adaptation Strategy



# Climate Action Secretariat

- “Provides a whole-of-government approach to achieving BC’s emission reduction targets, adapting to the impacts of climate change and driving the low carbon economy.”
- Climate Action Plan
  - Revenue neutral carbon tax
  - Intergovernmental partnerships
  - Carbon neutral government
  - LiveSmart BC
  - Adaptation strategy
  - Climate Action Charter
  - Actions in every sector
  - Pacific institute for Climate Solutions

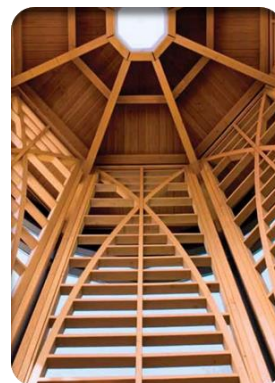




# ...Every Sector

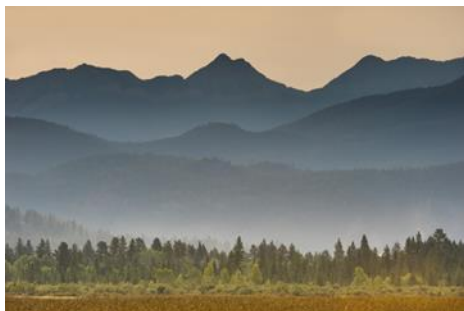
Working groups established

- Transportation
- Buildings
- Waste
- Agriculture
- Industry
- Energy
- Forestry

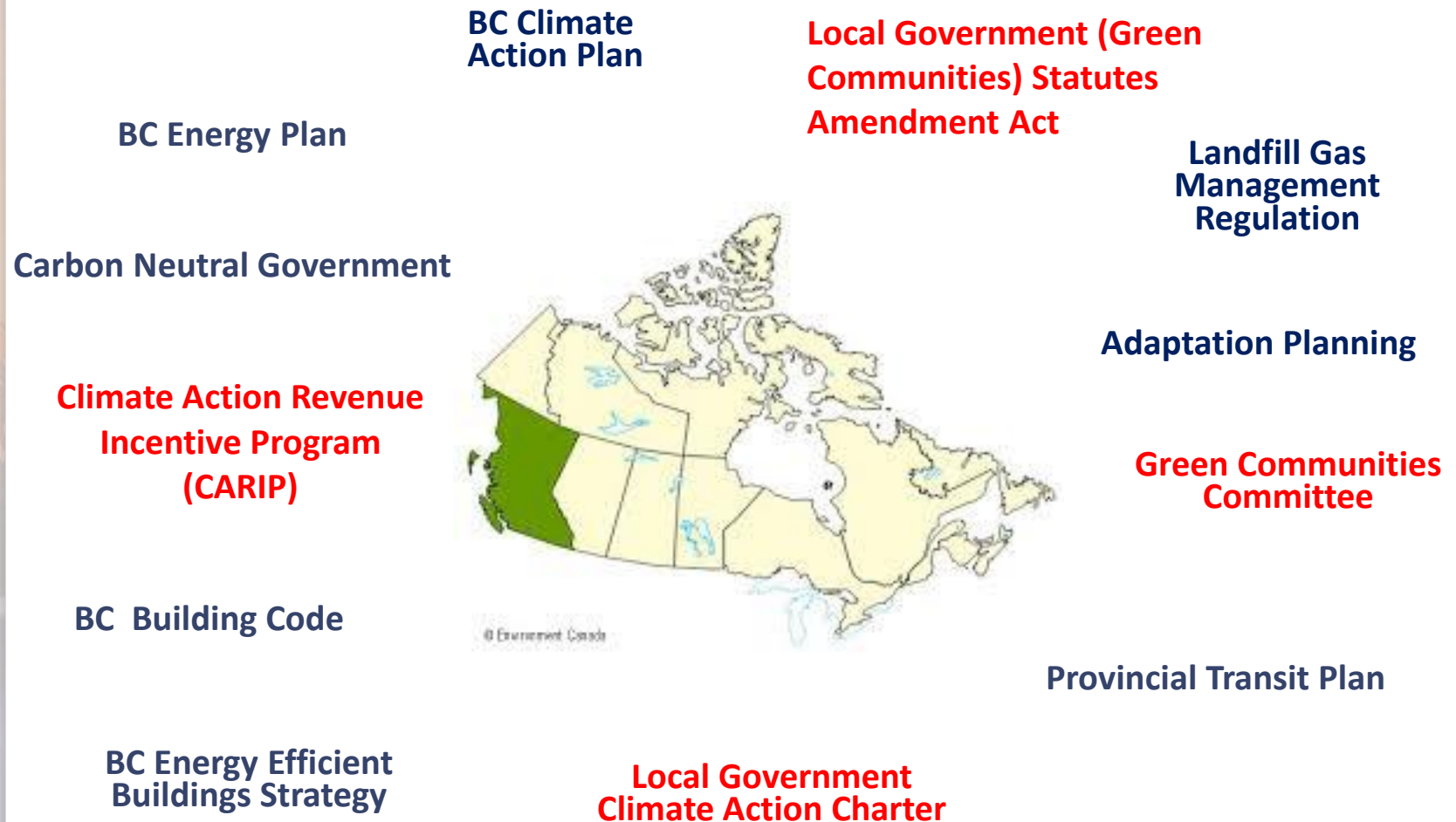


# New Legislation...to meet goals

- The Greenhouse Gas Reductions Targets Act:
  - 6% by 2012
  - 12% by 2016
- The Greenhouse Gas Reduction Target Acts (incl)
  - Cap and Trade
  - Vehicle Emissions Standards
  - Emissions Standards
  - Renewable and Low Carbon Fuel Requirements
- The 2008 Utilities Commission Amendment Act
- The 2008 Local Government (Green Communities)
- Statutes Amendment Act The Carbon Tax Act



# Provincial Leadership sample





# Local Government Act I

- Local Government (Green Communities) Statutes Amendment Act – Bill 27. May 2008
- Greenhouse Gas Reduction Target Setting for Municipalities and Regional Districts
  - Official Community Plans
  - Regional Growth Strategies



# Local Government Act II

## Tools

- Official Community Plans (OCPs), zoning to achieve complete compact communities
- Density Bonusing
- Development Permit Areas for Climate Action
- Revitalization Tax Exemptions
- Development Costs Charges
  - Not payable for units 29 sq. m. or less
  - Lower for compact dense development



# Green Communities Committee GCC

- The Province of British Columbia and the Union of BC Municipalities (UBCM):
- “To develop strategies, actions, supports and incentives to implement the Climate Action Charter.”
- Working Groups:
  - Carbon Neutral Working Group
  - Small Communities Strategies and Actions
  - Urban Strategies and Actions
- [www.toolkit.bc.ca](http://www.toolkit.bc.ca)



# British Columbia Climate Action Charter

- Voluntary
- 181 / 190 local governments signatories
- Leadership / competition / learning





# Climate Action Charter commitments

- Being carbon neutral in respect of their operations
- Measuring and reporting on their community's GHG emission profile (Community Energy Emissions Inventory- CEEI)
- Creating complete, compact, more energy efficient rural and urban communities





# Recognition Program

UBCM Excellence Awards for Climate Action

GCC Recognition Program

- Level 1 - Progress on Charter Commitments
- Level 2 - Measurement
- Level 3 - Achievement of Carbon Neutrality



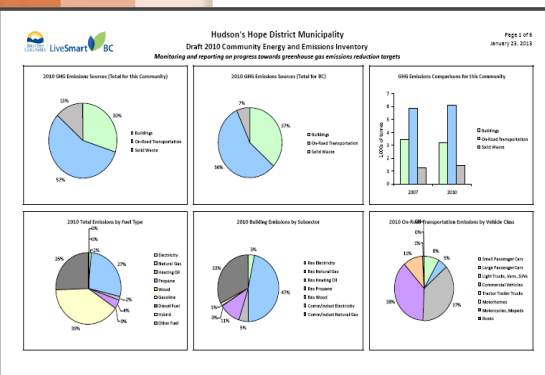
# Climate Action Revenue Incentive Program

- 168 final reports submitted
- 144 are measuring corporate emissions
- Over 35 are reporting as carbon neutral
- Local governments overall reduced their corporate emissions by 37%
- Carbon tax / grant program



# Community Energy and Emissions Inventories CEEIs

Purpose: to provide a provincial solution for tracking and reporting energy and greenhouse gas (ghg) emission indicators at a community (municipal or regional district) level



## Core Indicators

- Buildings
- Transportation
- Solid Waste

## Supporting Indicators

- Housing Type
- Commute Mode
- Commute Distance
- Residential Density
- Proximity to Transit

# Hudson's Hope District Municipality

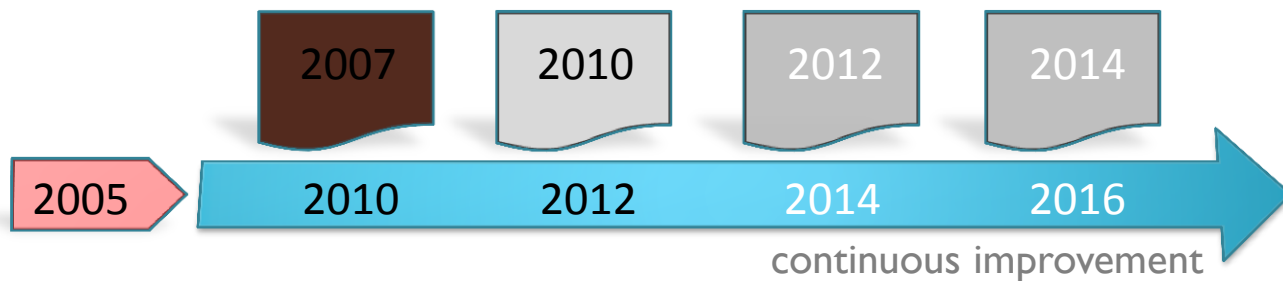
## Draft 2010 Community Energy and Emissions Inventory

Monitoring and reporting on progress towards greenhouse gas emissions reduction targets

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January 23, 2013

### Core Items

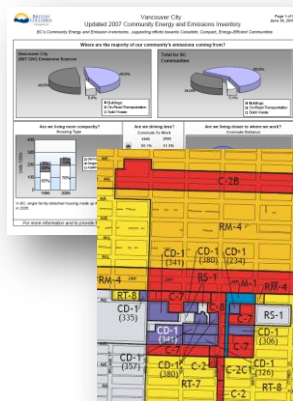
Category	Sub-category	2007				2010				
		Consumption	Intensity	Intensity	Intensity	Consumption	Intensity	Intensity	Intensity	
On Road Transportation	Gasoline	127	185,770 L	17,800	5,432	149	189,044 L	18,500	5,408	
	On-Road Fuel	127	185,770 L	17,800	5,432	149	189,044 L	18,500	5,408	
Large Passenger Cars	Gasoline	430	6,762 L	25,300	8	4	70	105,044 L	18,500	5,408
	On-Road Fuel	430	6,762 L	25,300	8	4	70	105,044 L	18,500	5,408
Light Trucks, Vans, SUVs	Gasoline	74	117,641 L	17,800	4,820	274	70,004 L	18,500	5,408	
	On-Road Fuel	74	117,641 L	17,800	4,820	274	70,004 L	18,500	5,408	
Commercial Vehicles	Gasoline	24	37,286 L	17,800	1,440	103	20,780 L	18,500	5,408	
	On-Road Fuel	24	37,286 L	17,800	1,440	103	20,780 L	18,500	5,408	
Tractor Trailer Trucks	Gasoline	75	27,674 L	17,800	1,440	103	20,780 L	18,500	5,408	
	On-Road Fuel	75	27,674 L	17,800	1,440	103	20,780 L	18,500	5,408	
Motorhomes	Gasoline	430	6,762 L	25,300	8	4	70	105,044 L	18,500	5,408
	On-Road Fuel	430	6,762 L	25,300	8	4	70	105,044 L	18,500	5,408
Agricultural Machinery	Gasoline	430	6,762 L	25,300	8	4	70	105,044 L	18,500	5,408
	On-Road Fuel	430	6,762 L	25,300	8	4	70	105,044 L	18,500	5,408
Buses	Gasoline	430	6,762 L	25,300	8	4	70	105,044 L	18,500	5,408
	On-Road Fuel	430	6,762 L	25,300	8	4	70	105,044 L	18,500	5,408
Total		840	1,317,046 L	18,423	14,742	5,408	103	1,405,044 L	18,500	5,408
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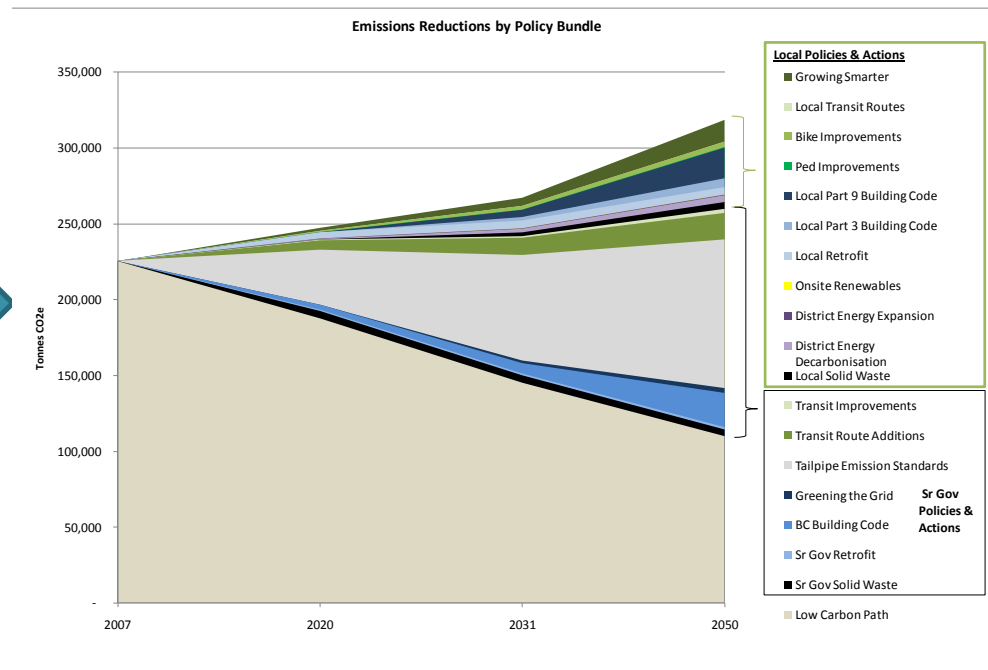
<http://toolkit.bc.ca/ceei>

# Community Energy and Emissions Modelling CEEM

Community Energy and Emissions Modelling comprise the tools, approaches and partnerships necessary to consider fundamental greenhouse gas implications of future land use development, energy conservation, waste management, and related policy decisions at a community-scale

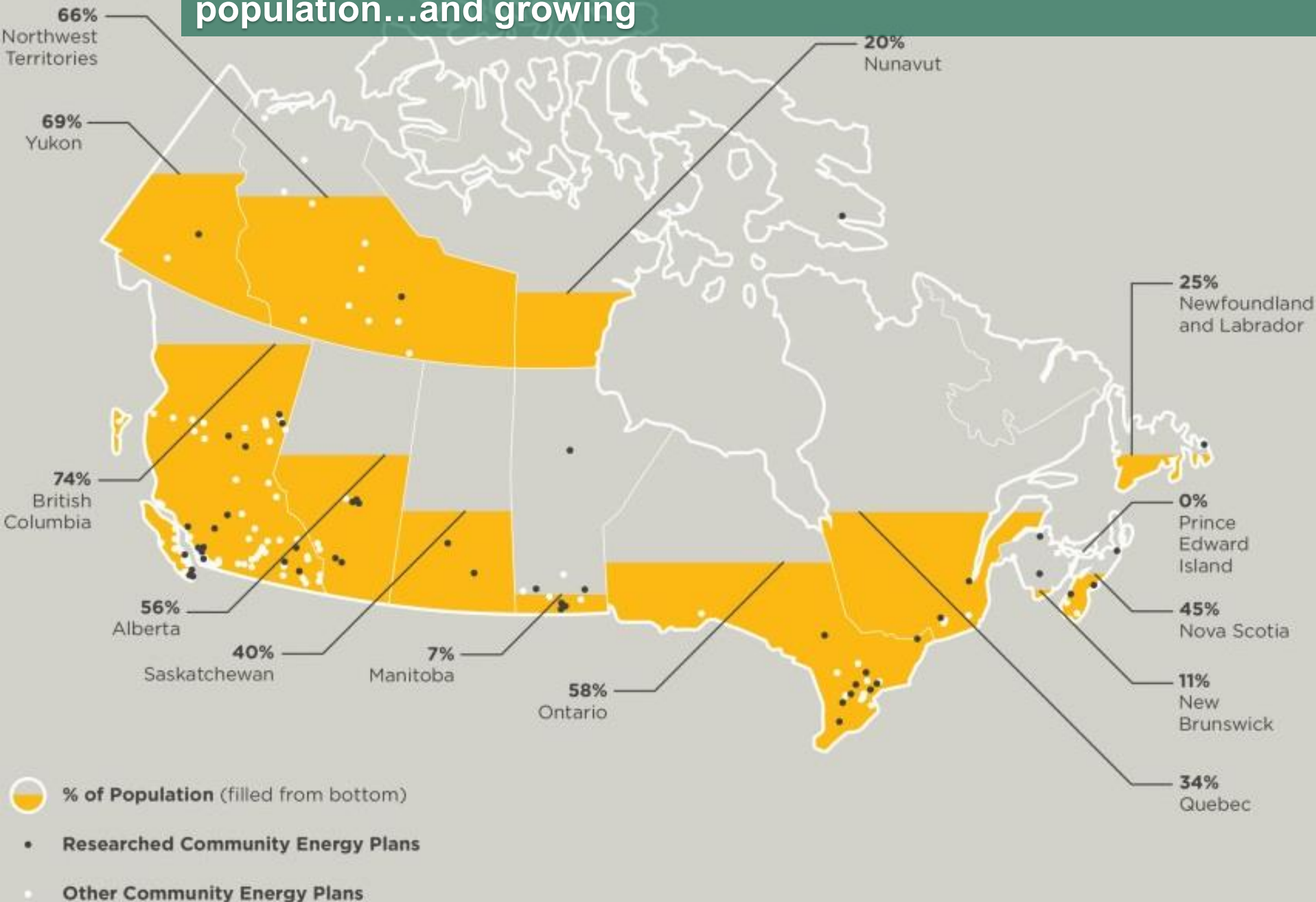


**+** Policies/  
Actions



<http://www.toolkit.bc.ca/ceem> - e.g., modelling comparison matrix

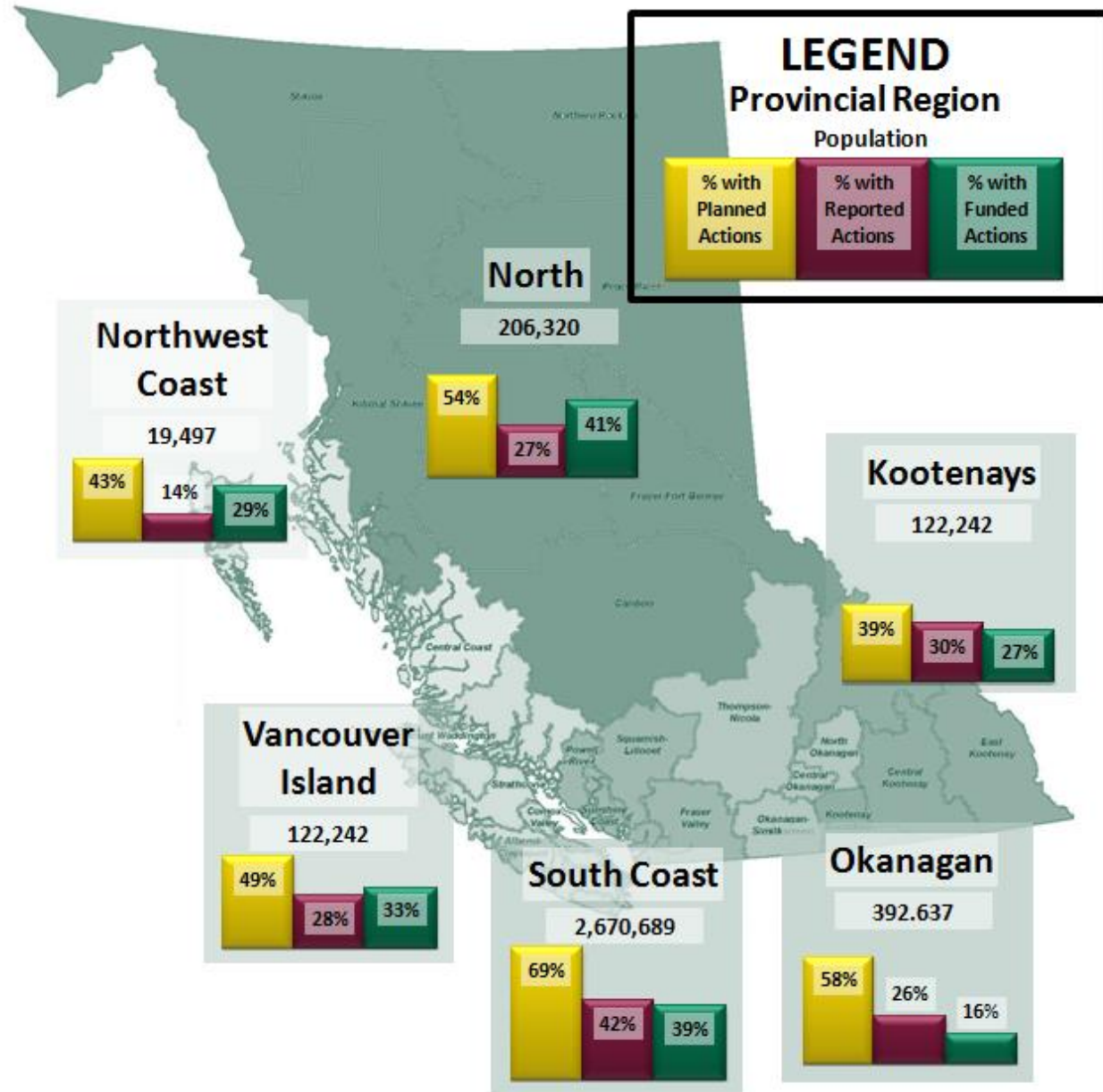
# CEEPs across Canada: >50% of BC LG's with 75% of population...and growing





# REs Planned, Reported & Funded Actions

- 101 BC CEEP's
- % of local governments in each region of BC with at least one renewable energy action
  - **Planned**
  - **Reported**
  - **Funded**
- Renewable energy types with the most momentum:
  - **Building-scale heating**
    - Local Biomass
    - Geo-exchange
    - Waste Heat Recovery
  - **District Heating**



# Collaborations



**Quality Urban  
Systems of  
Tomorrow  
(QUEST) BC  
Caucus**

**Union of BC  
Municipalities  
(UBCM) Conference**

**Green  
Communities  
Committee  
Climate Action  
Toolkit**

**Citizens'  
Conservation  
Council**

**CEEI Working Group  
and CEEM  
Community of  
Practice**

**Community  
Energy  
Association**

**BC Mayor's Climate  
Action Leadership  
Council**

**Building Sustainable  
Communities (BSC)  
Conference**

**FCM/ICLEI  
Partners in Climate  
Protection**

**Carbon Neutral  
Kootenays**

**University of  
BC  
Collaborative  
for Advanced  
Landscape  
Planning**

**BC Hydro  
Community  
Energy  
Managers**

**FBC Smart Planning  
for Communities**

**Remote  
Communities  
Energy (RCE)  
Network**

**LiveSmart Leaders  
Community**

**Metro Vancouver  
REAC  
Subcommittee**

**CEEPs  
+  
ICSPs  
+  
RGSs**



# Tools and Resources

## Tools

- SMARTTool
- Community Energy&Emissions Inventories
- Community Energy&Emissions Modelling
- Green Community Committee project profiles
- Facility GHG Emission Reports

## Resources

- Becoming Carbon Neutral
- Climate Action Revenue Incentive Program
- Methodology for quantifying GHG emissions
- Preparing for Climate Change

## Platforms

- Toolkit.bc.ca
- Retooling.ca
- Pando.sc
- Smartplanningbc.ca
- Pacificclimate.org
- fcm.ca – Partners in Climate Protection - PCP
- CivicInfo.bc.ca



Pacific Institute  
for Climate Solutions  
Knowledge. Insight. Action.



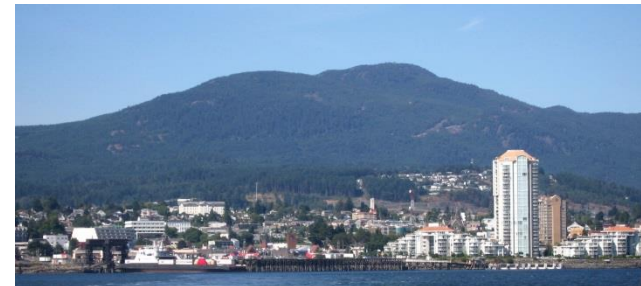
# Lessons Learned

- For the Better
  - The Carbon Tax – start small and build
  - Encourage partnerships of all kinds
  - Balance legislation with ongoing support
- Areas for Improvement
  - Coordinating support for community-level mitigation and adaptation
  - Mandate stronger interconnections and working relationships between key LG support agencies
  - Focus attention on implementation
- Uncertain
  - Carbon Tax - stay 'revenue neutral' or direct to GHG reductions?
  - The right mix of LG operations and Community-wide?



## ...Lessons themes

- ENABLING – CEEI
- MOTIVATING
  - GHG reduction targets
  - Climate Action Charter
- FUNDING. Creative ways to focus funding on energy efficiency conservation
- CONNECTING - PEER TO PEER
  - Local government staff, elected officials, professional associations. Community of practices, working groups





# Finally... use and leverage other programs!



# Discussion

Ben.Finkelstein@gov.bc.ca  
Manager  
Communities and Built Environment  
Climate Action Secretariat  
250.356.7847

Ted.Sheldon@gov.bc.ca  
Senior Policy Advisor  
Alternative Energy Branch  
Ministry of Energy and Mines  
250.356.1507