

2016

**Annual  
Report**



Community Energy  
Association





Darrell Mussatto

In 2016, all levels of government in Canada accelerated action on climate change. The federal government released the Pan Canadian Framework on Clean Growth and Climate Change. The BC government launched its Climate Leadership Plan. Both federal and provincial plans will require collaborating with communities on transportation, buildings, and infrastructure.

Communities are moving on climate action as well. The percentage of local governments in BC with community energy and emissions plans passed 50% in 2016, which also means about 80% of the population of BC is in a community with a plan to help them save energy, emissions and money. There was also continued momentum among local governments toward committing to 100% renewable energy goals community-wide.

Community Energy Association (CEA) contributed to this momentum and helped local governments identify opportunities in the senior government plans. CEA guided communities through developing and re-booting community energy plans and building their capacity to achieve their climate and energy goals.

CEA will continue to support communities in planning and implementing their climate and energy initiatives as policies and legislation from provincial and federal governments evolve.

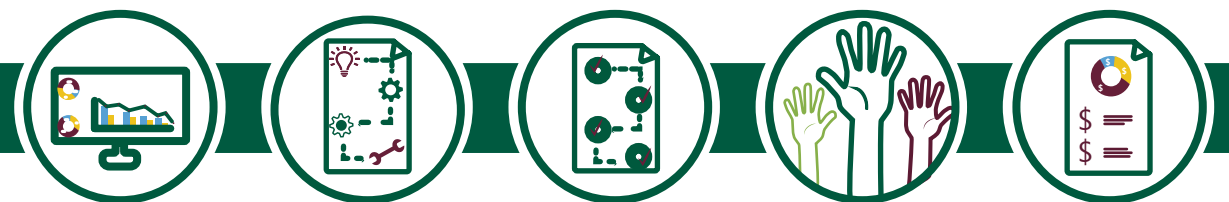
We look forward to another successful year in 2017.

**Darrell Mussatto**  
Chair, Community Energy Association and Mayor, City of North Vancouver

**Dale Littlejohn**  
Executive Director, Community Energy Association

**Key accomplishments in 2016 included:**

- 12** community energy and emission plans (CEEPs) – 10 in West Kootenay communities with FortisBC and 2 for other municipal governments in BC with BC Hydro.
- 4** CEEPs re-booted
- 10** implementation strategies defined and explained in the Community Energy Implementation Framework as part of the national Getting to Implementation Initiative.
- \$1.5 million**, 2-year Accelerate Kootenays EV project launched. This community driven, regional initiative will address an EV charging infrastructure gap that exists in the Kootenays. In 2016, the strategic siting of electric vehicle charging stations across the region was identified. In 2017 and 2018, 13 DC Fast Charging stations and 40 Level 2 stations will be installed.
- 20** BC communities supported in developing policy and planning tools to incentivize and encourage more energy efficient new and existing buildings.
- 500** builders and local building officials attended 10 workshops on the energy efficiency provisions of the BC Building Code, the forthcoming Energy Step Code and Energy Star for New Homes. Now they are better equipped to construct more energy efficient homes.
- 3** Solution Tables in partnership with QUEST BC. Approximately 70 practitioners from local governments, energy providers, the real estate industry and NGOs discussed the alignment of actions around the built environment and climate change and provided input into BC's CLP.
- 200** local government staff educated through 4 webinars in a peer to peer learning network on the following topics to build their knowledge: solar PV systems, Climate Leadership Plan, BC Energy Step Code, and utility incentives for building energy efficient homes.
- 300** Mayors and Councillors educated in 9 peer learning workshops on behalf of the BC Municipal Climate Leadership Council covering what other communities are doing to save energy and emissions in their corporate operations and community-wide to address climate change.



# CEA MEMBERS

CEA Members are recognized as leaders in driving climate action in British Columbia and are among the province's most driven advocates for inspiring climate solutions. In addition to the local governments on the map, below, members are also from the following sectors:



## Public Sector

- BC Hydro
- TransLink
- BC Transit
- University of BC Sustainability



## Private Sector

- FortisBC
- Creative Energy
- Corix Utilities
- Prism Engineering
- SES Consulting



## Associations & Foundations

- Union of BC Municipalities
- Urban Development Institute
- Real Estate Foundation BC



# RESEARCH

Leading thinking backed by detailed analysis to blaze the trail for communities on climate and energy.

**Policies to Accelerate Community Energy Plans - An Analysis of BC, Ontario & the Northwest Territories**

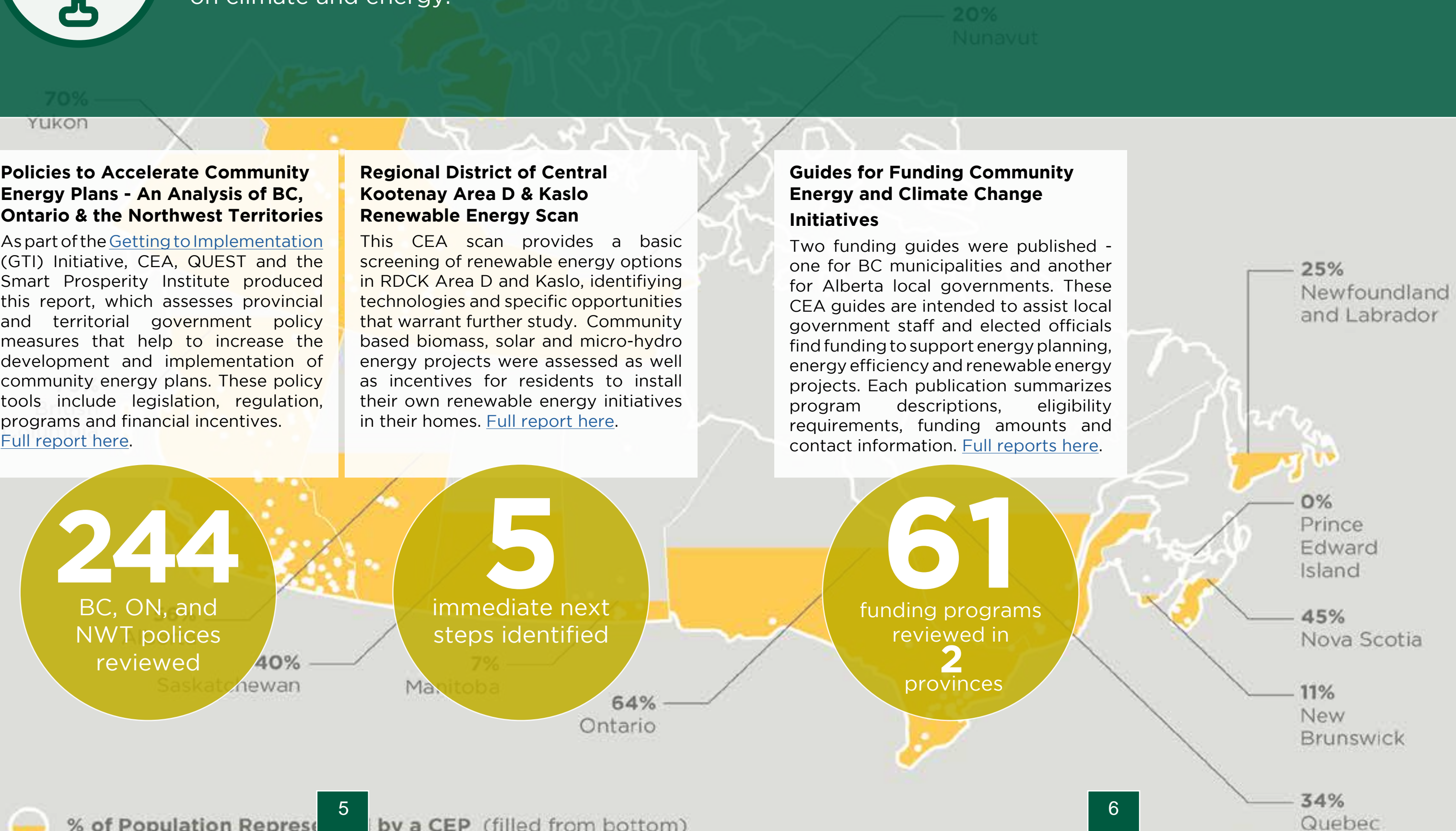
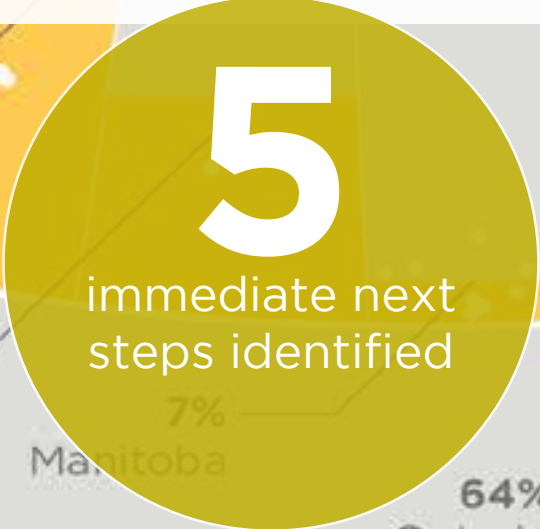
As part of the [Getting to Implementation \(GTI\) Initiative](#), CEA, QUEST and the Smart Prosperity Institute produced this report, which assesses provincial and territorial government policy measures that help to increase the development and implementation of community energy plans. These policy tools include legislation, regulation, programs and financial incentives. [Full report here.](#)

**Regional District of Central Kootenay Area D & Kaslo Renewable Energy Scan**

This CEA scan provides a basic screening of renewable energy options in RDCK Area D and Kaslo, identifying technologies and specific opportunities that warrant further study. Community based biomass, solar and micro-hydro energy projects were assessed as well as incentives for residents to install their own renewable energy initiatives in their homes. [Full report here.](#)

**Guides for Funding Community Energy and Climate Change Initiatives**

Two funding guides were published - one for BC municipalities and another for Alberta local governments. These CEA guides are intended to assist local government staff and elected officials find funding to support energy planning, energy efficiency and renewable energy projects. Each publication summarizes program descriptions, eligibility requirements, funding amounts and contact information. [Full reports here.](#)





# PLANNING

Over 65 Community Energy Plans and inventories in BC and Yukon.

## **SCEEP Development in the West Kootenay Region:**

Strategic community energy and emission plans (SCEEPs) were completed for 10 west Kootenay communities between fall 2015 and winter 2016, including the Regional Districts of Central Kootenay and Kootenay Boundary, with the support of the Columbia Basin Trust.

## **CEEP Quickstart:**

CEA led CEEP Quickstarts for Bowen Island Municipality and the City of Prince Rupert. This facilitated planning process helps municipalities with populations under 75,000 create action oriented CEEPs during a 2-day workshop.

## **Community Energy and Emissions Inventories for the Yukon:**

CEA helped the Yukon Government's Climate Change Secretariat with developing a community energy and emissions inventory for Haines Junction by advising staff on what information was needed as well as checking and analyzing the data. To facilitate the Yukon Government in conducting inventories in-house in the future, CEA prepared the Yukon Community Energy and Greenhouse Gas Emissions Inventory Checklist. This document outlines the steps necessary to successfully create an inventory, a list of data sources and ways to obtain different types of information, and a sample residential energy survey that can be used to obtain data on residential sector energy habits.

## **School District 8 Carbon Neutral Action Report:**

CEA refreshed this school district's Carbon Neutral Action Report by adding greenhouse gas emission reduction targets and action items.

## **Regional District of Kootenay Boundary Corporate Energy Plan (CEP) Refresh:**

RDKB participated in Carbon Neutral Kootenays and adopted its original Corporate Energy Plan in 2010. This project re-focused and refreshed the existing energy and emission reduction documents, policies and actions currently underway in the regional district.

**14**  
CEEPs created  
identifying  
**404**  
actions

**24**  
recommended  
actions in new  
RDKB CEP.



# IMPLEMENTATION

Getting to Implementation with people, process, and policy.

## Community Energy Implementation Framework:

As part of the Getting to Implementation Initiative, CEA and its partners developed and piloted this framework with three communities - Calgary, Campbell River and the Region of Waterloo - as they rebooted actions in their community energy plans (CEPs). The goal of the framework is to move CEPs from vision to implementation. The tool features ten strategies that provide advice on political, staff and stakeholder engagement; staff and financial capacity; and embedding energy into plans and processes. [Full report here.](#)

## SCEEP Implementation in the West Kootenay Region:

With support from FortisBC, CEA developed a draft sustainability checklist for the RDCK to promote energy efficient buildings as well as a policy brief on tools to encourage more energy efficient homes (new and existing), including home energy labelling, for the City of Nelson.

## City of Coquitlam CEEP Operationalization:

CEA determined the status of actions outlined in the CEEP that was developed several years ago, built buy-in across departments for specific initiatives over the next 2-3 years and created a process for ongoing refreshing of the tactical/operational plan for the CEEP.

## Policy and Planning Measures to Increase Home Energy Efficiency:

With the support of Natural Resources Canada, CEA provided in depth assistance to twenty communities and helped many additional municipalities through workshops and webinars in early 2016. CEA supported them in advancing energy efficiency in homes with the use of various policy tools including development cost charge reductions, density bonusing, home energy labelling, permit fee rebates, zoning bylaws, and sustainability checklists.

10

strategies to move CEPs from vision to implementation

20

communities supported with energy efficiency policies



# IMPLEMENTATION

Beyond policy - putting physical infrastructure in the ground.

### Regional District of East Kootenay Organic Waste Diversion Pilot Project:

RDEK's Community Energy Manager (CEA staff member Megan Lohmann) managed this pilot program, working with the RDEK staff, to implement a sub-regional compost program for a 3-month period over summer 2016. The pilot tested small-scale processing at two Regional transfer stations, while providing centralized drop off bins at all transfer stations in the Columbia and Elk Valley. One month trials were also facilitated at two grocery stores to test diversion of waste at a commercial source. CEA will continue to support the expansion of these opportunities in the RDEK.

### Accelerate Kootenays:

CEA is managing this \$1.5 million, 2-year project on behalf of the 3 Kootenay Regional Districts: Central Kootenay, East Kootenay and Kootenay Boundary. In their CEPs, transportation was identified as the largest contributor of community-wide emissions and increasing electric vehicle (EV) use was seen as a viable opportunity to decrease these emissions. In 2016, modelling was performed and criteria was identified to determine the strategic siting of 13 fast charging and 40 Level 2 EV charging stations across the Kootenays. In addition to the RDs, financial support for this initiative is provided by FCM, FortisBC, Columbia

Basin Trust, and BC Ministry of Energy & Mines. BC Hydro and PowerTech are key operational partners. More info at [acceleratekootenays.ca](http://acceleratekootenays.ca)

### Electric Vehicle network in Calgary & Southwest Alberta:

CEA was engaged by the City of Calgary, Calgary Regional Partnership, Alberta Southwest Regional Economic Development Alliance and SouthGrow Regional Initiative to develop an EV network strategy that would expand off of the Accelerate Kootenays network, connecting BC & AB. CEA completed initial network design and has been supporting the development of funding proposals for network implementation. The

partners aim to install a network of 15-20 combined Level 2 and DC Fast Charging stations with a demonstration solar component.

### Solar Now:

In collaboration with Clean Energy Canada, CEA began creating a Solar Now how-to guide for single family homeowners in Metro Vancouver. The guide highlights the benefits of solar photovoltaic panels, FAQs, and municipal permitting and installation costs associated with a PV system.





# EDUCATION & ENGAGEMENT

Leading training and peer mentoring for climate action in BC and Canada.

## Certificate in Community Energy Management:

For 2016/17, CEA is continuing its partnership with BC Institute of Technology to deliver 6 online courses that qualify students to write CEA's certification exam in Community Energy Management. In the summer and fall of 2016, students completed the Introduction to Community & Emissions Planning course and the Community-Based Renewable Energy course.

## Community of Practice Webinars:

Through this peer to peer staff learning network, CEA organized 4 webinars for local government staff.

Topics included solar photovoltaic systems, the BC Climate Leadership Plan, the BC Energy Step Code, and utility incentives for building energy efficient homes. In total, 209 people attended these webinars.

## BC Municipal Climate Leadership Council (BCMCLC):

The BCMCLC consists of eleven mayors and councillors from large and small BC municipalities who are committed to climate change action. The purpose of the council is to provide local leadership on climate change, educate and mentor newly elected officials on the importance of taking action on this issue, and engage local officials on

this topic through outreach activities. In early 2016, BCMCLC conducted 9 peer learning workshops to educate elected officials about what other communities are doing to save energy and emissions in their corporate operations and community-wide.

## Conferences:

CEA staff presented on a range of topics at several large conferences in 2016:

### International Bioenergy Conference, Prince George:

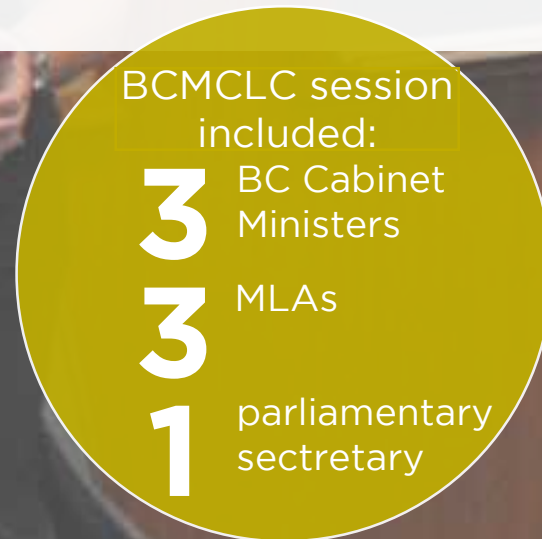
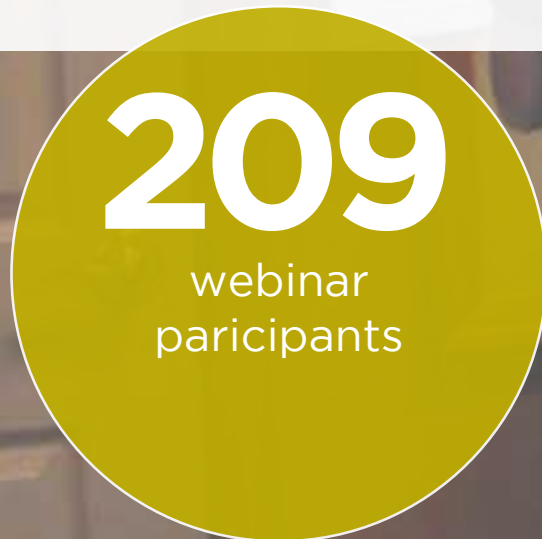
- *FIRST Heat tool and how to use community energy to help address wildfires (75 attendees)*

### QUEST Conference, Calgary:

- *Community Energy Planning: Getting to Implementation* and a roundtable dialogue on community action and technology **(200 attendees)**

### UBCM Convention, Victoria:

- *Step Code Clinic (40 attendees)*
- *BC Climate Leadership Plan and the role of non-profits in helping local governments to achieve their climate objectives (200 attendees)*
- *BCMCLC session (25 attendees)*







# EDUCATION & ENGAGEMENT

Convening, Celebrating, and being the voice of communities on committees

UBCM 2016

## Climate & Energy Action Awards:

Each year, CEA presents awards to local governments in recognition of noteworthy initiatives that integrate energy and climate change planning into community and corporate planning. In 2016, the City of North Vancouver won in the community planning and development category for the Moodyville Neighbourhood rezoning; the City of Coquitlam was awarded in the corporate operations category for its Corporate Strategic Energy Management Plan; and the City of Kimberley was honored in the public sector organization collaboration category for the SunMine project. CEAA partners

include the Province of BC, UBCM, BC Hydro, FortisBC, and REFBC.

## Workshops:

QUEST BC and CEA co-hosted 3 Solution Tables that brought together senior practitioners from local governments, energy service providers, real estate companies and NGOs to discuss the alignment of actions around the built environment and climate change and provide input into BC's Climate Leadership Plan.

CEA also hosted 10 builder workshops around BC, which reviewed energy efficiency provisions in the BC

Building Code including performance vs. prescriptive paths for Part 9.36, Energy Star for New Homes, utility incentives, and the value of working with Certified Energy Advisors, among other topics.

## Participation in Working Groups:

Two CEA staff participated in the Province of BC's Energy Efficiency Working Group consultations on district energy and the Energy Step Code for Parts 3 and 9 of the BC Building Code. They joined representatives from the province, local governments, development and construction associations, building

scientists, utilities, and district energy system providers to participate in discussions and reach consensus on how to design a step code that will meet everyone's needs and to resolve challenges related to increased building energy efficiency and demand for heat.

CEA staff also participated in provincial consultations about building energy efficiency to support the development of the new Climate Leadership Plan.

20

inspiring applications from across BC.

570

participants at 13 Workshops



# FINANCIAL STATEMENTS

Stable operations, positive income, and strong balance sheet.

## Community Energy Association Statement of Financial Position For the period Ended December 31, 2016

### ASSETS

#### Current Assets

Cash	\$ 337,415
Accounts Receivable	128,749
GST Receivable	4,699
Prepaid Expenses	7,762
Rent Deposit	-
Work in Progress	86,124

**Total Current Assets** 564,750

#### Capital Assets

Office Equipment	13,062
Accum. Amort. Equipment	-7,661

**Total Capital Assets** 5,401

**TOTAL ASSETS** 570,151

### LIABILITIES AND ASSOCIATION EQUITY

#### Current Liabilities

Accounts Payable	105,802
Vacation & Payroll Payable	7,481
Due to Receiver General	581
Deferred Revenue	30,000
Deferred Contribution	19,793

**Total Current Liabilities** 163,657

#### Special Purpose Fund

Reserve Fund	100,000
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**Total Special Purpose Fund** 100,000

**ASSOCIATION EQUITY** 306,494

**TOTAL LIABILITIES AND EQUITY** 570,151

## Community Energy Association Statement of Operations and Changes in Equity For the period Ended December 31, 2016

### Revenue

Membership Revenue	\$ 65,101
Charitable Donations	48
Education & Outreach	-
Advisory Services	329,547
Charitable Projects	787,608
Interest and miscellaneous	4,295
	<u>1,186,599</u>

### Expenses

Direct project costs	790,915
Organizational expenses	1,332
Personnel	241,697
General and administrative	75,350
Direct program expenses	4,254
	<u>1,113,548</u>

**Income (Deficit)** 73,051

Association Equity beginning of year 233,443

**Association Equity end of period** \$ 306,494

## Community Energy Association Statement of Operations and Changes in Equity For the period Ended December 31, 2016

### Cash Flows from (used in) Operating Activities

Net Income (Loss) \$ 73,051

#### Adjustments to reconcile net income to net cash provided by (used in) operating activities:

Increase (Decrease) of Deferred Revenue 22,488

Increase (Decrease) of Deferred Contributions (65,016)

#### Decrease (Increase) in Operating Assets:

Accounts Receivable (19,458)

Work in Progress (34,738)

Prepaid Expenses (3,270)

GST Receivable (90)

#### Increase (Decrease) in Operating Liabilities:

Accounts Payable & Accrued Liabilities 90,566

**Net Cash provided by (used in) Operating Activities** (9,519)

### Cash Flows from non-operating Activities

Increase in Capital Assets 4,135

**Increase (Decrease) in Cash and Cash Equivalents** 63,532

**Cash and Cash Equivalents at beginning of year** 269,748

**Cash and Cash Equivalents at end of period** \$ 337,415

## 2017 GOALS

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In 2017, CEA will support municipalities in developing and implementing community energy and emissions plans with a focus on the following activities:

### 1. Help local governments build capacity

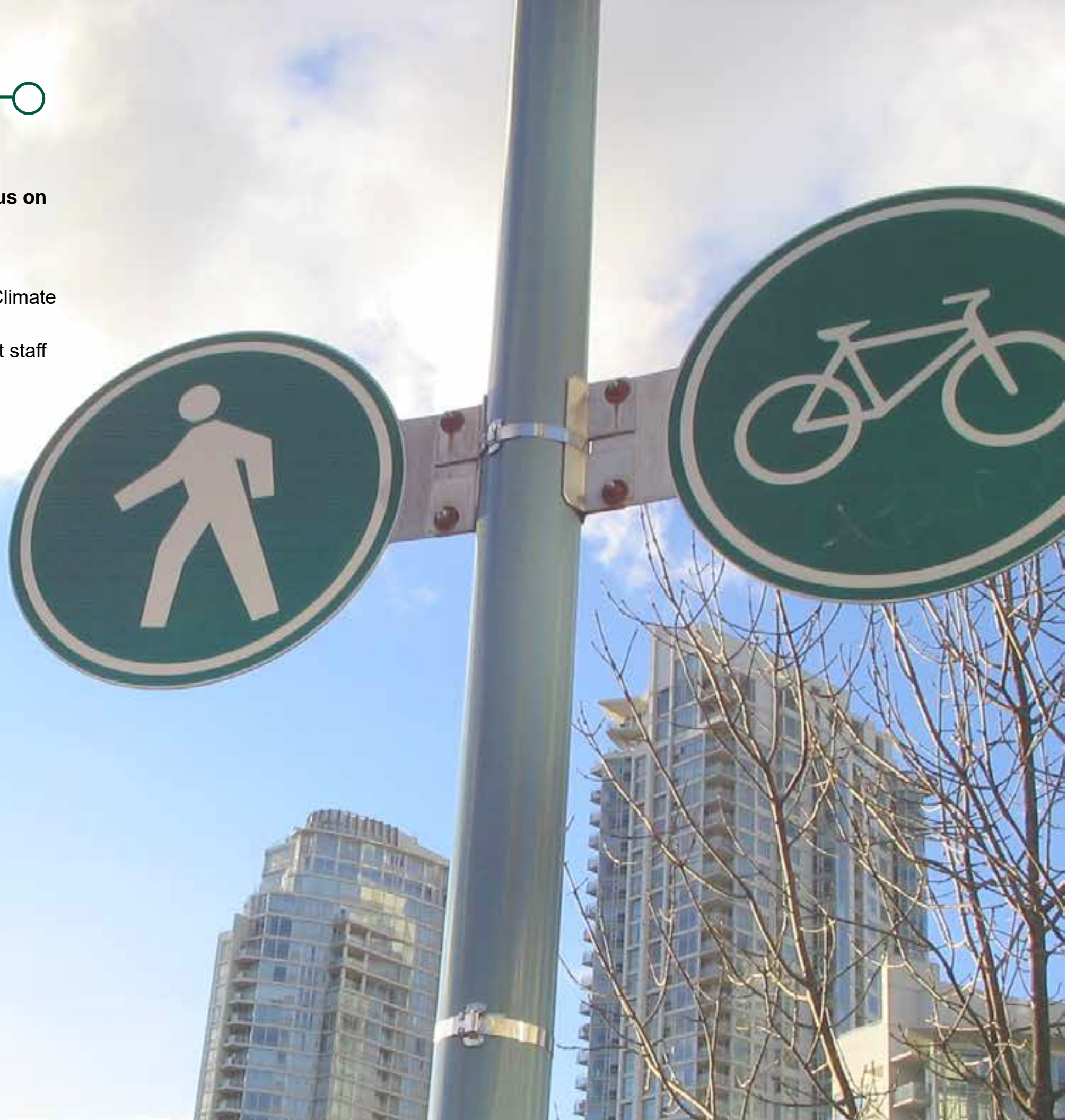
- Peer-mentoring for elected officials through the BC Municipal Climate Leadership Council (BCMCLC)
- Community of practice and webinar series for local government staff
- Education and certification for community energy managers

### 2. Support policy and planning

- Community energy and emissions plan re-boots
- Step-code readiness, education and adoption

### 3. Deploy Infrastructure

- Electric Vehicle charging in the Kootenay region
- Solar photovoltaic (PV) in Metro Vancouver



The Community Energy Association (CEA) is a non-profit society with charitable status whose mission is to support local governments that wish to take action on climate change.

Since 1995, CEA has helped communities close the planning and implementation gaps through research, projects and outreach. The organization has published several guides and tools on community energy planning. CEA has also assisted local governments with technology acceleration (e.g. renewable energy projects and EV charging networks), policy implementation (e.g. sustainability checklists and incentives to construct more energy efficient buildings), and the development of community energy and emission plans and carbon neutral action plans. Through webinars, workshops and courses, CEA provides a forum for dialogue and education on sustainable energy and climate change as well as builds the capacity of local government staff and elected officials.

In 2016, CEA employed 9 staff in offices around BC and was managed by 10 Board of Directors and our Executive Director. CEA's Board is comprised of elected representatives of more than 30 member organizations including BC municipalities, utilities, transportation providers, consulting firms and other non-profit organizations.

## CONNECT WITH US

