



2016

Annual Report



**Community Energy
Association**

Page 002 of 320 to/à Page 012 of 320

Withheld pursuant to/removed as

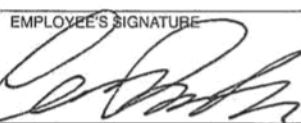
Copyright

TRAVEL AUTHORIZATION

This form must be used for all out-of-province travel requests.
It may, at the discretion of ministries, be used for in-province travel requests.

☐ Out-of-Province ☐ Out-of-Canada ☒ In-Province

MINISTRY / ENTITY / CORPORATE NAME (IF CONTRACTOR)			VOTE	ESTIMATED COSTS (IN CAN. \$) Transportation _____ Meals _____ Lodging _____ Overtime _____ Fees _____ Other _____ _____ _____ _____ _____ SUB TOTAL 0 Less Costs paid by others _____ TOTAL COSTS 0
Building and Safety Standards Branch			131	
EMPLOYEE NAME			EMPLOYEE ID.	
Andrew Pape-Salmon			S.22	
POSITION			BARGAINING UNIT / GROUP NO.	
Executive Director			Group 2	
BRANCH / LOCATION / REGION				
4th Floor 614 Humboldt St Victoria BC				
DATE DEPARTING YYYY / MM / DD	DATE RETURNING YYYY / MM / DD	NO. OF WORKDAYS AWAY	ESTIMATED OVERTIME CLAIM HOURS	
2017/05/30	2017/05/30	1		
IDENTITY OF ORGANIZATION (OTHER THAN PROV. OF B.C.) PAYING ANY OF THE COSTS				
<input type="checkbox"/> N / A, OR: Quest Event (paying up to \$330.00 flights and translink) No cost to the branch				
DESTINATIONS				
Vancouver				

METHOD OF TRAVEL Air	SIGNATURES Refer to CPPM 10.3.4 Policy 1 and 10.4.4 for approval authorities. PLEASE SIGN ONE BOX ONLY								
PURPOSE OF TRAVEL Give details of event to be attended, project name / number, program involved, benefits to Ministry, etc. Doing a Presentation: Cost of One point of consideration would be to broaden the theme to include "resilient" buildings, aligned with this PNWER initiative (attached). This includes "net-zero-ready" new construction, but also speaks to climate change adaptation – and existing buildings.	DIRECTOR <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">APPROVED</td> <td style="width:33%;">NOT APPROVED</td> <td style="width:34%;">DATE SIGNED YYYY / MM / DD</td> </tr> <tr> <td style="height: 40px;"></td> <td></td> <td></td> </tr> </table>			APPROVED	NOT APPROVED	DATE SIGNED YYYY / MM / DD			
	APPROVED	NOT APPROVED	DATE SIGNED YYYY / MM / DD						
	ASSISTANT DEPUTY MINISTER <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">APPROVED</td> <td style="width:33%;">NOT APPROVED</td> <td style="width:34%;">DATE SIGNED YYYY / MM / DD</td> </tr> <tr> <td style="height: 40px;"></td> <td></td> <td>2017/05/23</td> </tr> </table>			APPROVED	NOT APPROVED	DATE SIGNED YYYY / MM / DD			2017/05/23
APPROVED	NOT APPROVED	DATE SIGNED YYYY / MM / DD							
		2017/05/23							
DEPUTY MINISTER <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">APPROVED</td> <td style="width:33%;">NOT APPROVED</td> <td style="width:34%;">DATE SIGNED YYYY / MM / DD</td> </tr> <tr> <td style="height: 40px;"></td> <td></td> <td></td> </tr> </table>			APPROVED	NOT APPROVED	DATE SIGNED YYYY / MM / DD				
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MINISTER <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">APPROVED</td> <td style="width:33%;">NOT APPROVED</td> <td style="width:34%;">DATE SIGNED YYYY / MM / DD</td> </tr> <tr> <td style="height: 40px;"></td> <td></td> <td></td> </tr> </table>			APPROVED	NOT APPROVED	DATE SIGNED YYYY / MM / DD				
APPROVED	NOT APPROVED	DATE SIGNED YYYY / MM / DD							
EMPLOYEE'S SIGNATURE 	DATE SIGNED YYYY / MM / DD 2017/05/10								

Reset Form

Instructions for the *Travel Authorization Form (FIN 099)*

Every employee requesting approval for out-of-province and out-of-Canada travel will complete form TB/FIN 99 in full.

Purpose of Travel – include a clear statement of the reason for the proposed travel.

Estimated Costs (in Can. \$) – provide an approximate calculation of the total costs to be incurred.

Approval Authorities – required by CPPM 10.3.4 policy 1 (per TB Directive 4/04):

- approvals for staff are made by their respective director;
- approvals for directors and executive directors are made by the assistant deputy minister of the program area;
- approvals for assistant deputy ministers are made by the executive financial officer for the ministry;
- for approval requirements for ministers, parliamentary secretaries, deputy ministers and ministers' office staff, refer to CPPM 10.4.4.

Where approval is obtained, the immediate program area retains copy 3 (pink) and copies 1 (white) and 2 (canary) are returned to the originator.

Request for Expense Reimbursement

The employee requesting reimbursement for out-of-province or out-of-Canada travel will attach copies 1 and 2 of the approved TB/FIN 99 to their travel claim.

Sent: Friday, May 5, 2017 1:16 PM
To: Pape-Salmon, Andrew OHCS:EX
Subject: Re: QUEST event

Thank you!

[<https://s3-eu-west-1.amazonaws.com/mailtrack-crx/icon-signature.png>] <<https://mailtrack.io/>> Sent with Mailtrack<<https://mailtrack.io/install?source=signature&lang=en&referral=tleach@questcanada.org&idSignature=22>>

Tonja Leach

Senior Lead, National Affairs & Services | QUEST
New address - 350 Albert St. Suite 1220 | Ottawa ON | K1R 1A4

T: [866-494-2770](tel:866-494-2770) *706 W: questcanada.org<<http://www.questcanada.org/>>

F: [613-627-2938](tel:613-627-2938) E: tleach@questcanada.org<<mailto:tleach@questcanada.org>>

Please Note: We now have a NEW toll free number: [\(866\) 494-2770](tel:(866)494-2770)<[tel:\(866\)%20494-2770](tel:(866)%20494-2770)>

[<https://docs.google.com/a/questcanada.org/uc?id=0B5iRn5FwYQzeemdPQ195YkQzd2c&export=download>]

On Fri, May 5, 2017 at 4:09 PM, Pape-Salmon, Andrew OHCS:EX
<Andrew.PapeSalmon@gov.bc.ca<<mailto:Andrew.PapeSalmon@gov.bc.ca>>> wrote:
Here is my bio.

Andrew Pape-Salmon | P.Eng., MRM, FCAE
Executive Director, Building and Safety Standards Branch
Office of Housing and Construction Standards
Ministry of Natural Gas Development and Minister Responsible for Housing
Cell/Text: [250.812.1933](tel:250.812.1933)<[tel:\(250\)%20812-1933](tel:(250)%20812-1933)>
Tel: [250.387.3133](tel:250.387.3133)<[tel:\(250\)%20387-3133](tel:(250)%20387-3133)>
Email: Andrew.PapeSalmon@gov.bc.ca<<mailto:Andrew.PapeSalmon@gov.bc.ca>>

Please see our website: www.gov.bc.ca/buildingcodes<<http://www.gov.bc.ca/buildingcodes>>

From: Tonja Leach [<mailto:tleach@questcanada.org><<mailto:tleach@questcanada.org>>]
Sent: Friday, May 5, 2017 11:42 AM
To: Pape-Salmon, Andrew OHCS:EX; Robyn Wark
Subject: Re: QUEST event

[X]Thanks Andrew. I'm bringing Robyn Wark into this discussion.

Robyn, correct me if I am wrong please. If possible we would like Andrew to not just provide the details of the

Energy Step Code but more specifically to touch on its roll-out now that it has been passed into regulation - what needs to be done at the local level to implement it prior to the December 2017 deadline for local building requirements and to lead us to a conversation on how the step code could be used as an economic development tool.

Tonja

Poulton, Gail OHCS:EX

From: Tonja Leach <tleach@questcanada.org>
Sent: Wednesday, May 10, 2017 5:09 PM
To: Pape-Salmon, Andrew OHCS:EX
Cc: Poulton, Gail OHCS:EX
Subject: Re: QUEST event



Hi Andrew (and Gail),

I will have the agenda to you by end of day tomorrow. Sorry for the delay, I've been attending events all week.

Regards,
Tonja



Sent with Mailtrack

Tonja Leach

Senior Lead, National Affairs & Services | QUEST
New address - 350 Albert St. Suite 1220 | Ottawa ON | K1R 1A4

T: 866-494-2770 *706 W: questcanada.org

F: 613-627-2938 E: tleach@questcanada.org

Please Note: We now have a *NEW* toll free number: (866) 494-2770



On Tue, May 9, 2017 at 5:03 PM, Pape-Salmon, Andrew OHCS:EX <Andrew.PapeSalmon@gov.bc.ca> wrote:
Can you please send Gail and I the agenda for the meeting with attendees so I can pursue my travel approval.

Andrew Pape-Salmon, P.Eng., MRM, FCAE
Executive Director, Building and Safety Standards Branch
Phone: 250-812-1933
Email: Andrew.PapeSalmon@gov.bc.ca
From: Tonja Leach

Poulton, Gail OHCS:EX

From: Tonja Leach <tleach@questcanada.org>
Sent: Friday, May 5, 2017 7:27 AM
To: Poulton, Gail OHCS:EX
Subject: Re: QUEST event - BSSB cost of Flights

Follow Up Flag: Follow up
Flag Status: Completed



Hi Gail,

I have discussed the possibility of covering Andrew's travel internally by QUEST and I have the approval to cover his costs up to \$330.

Many thanks,
Tonja



Sent with Mailtrack

Tonja Leach

Senior Lead, National Affairs & Services | QUEST
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On Tue, Apr 25, 2017 at 12:22 PM, Poulton, Gail OHCS:EX <Gail.Poulton@gov.bc.ca> wrote:

Good morning Tonja;

We bulk buy Harbour Air and receive a discount for that. Our costs are \$157.72 each per ticket so \$315.44 return. Regular fare is \$434.00 return so a savings of \$129.56 on a return flight.

Andrew can fly to the airport or the Vancouver harbour, whichever is closer to the event. We also have compass cards for travelling in Vancouver, maximum spent to date is about \$14.00 by any staff member.

I would book the flights for Andrew and you in turn would reimburse the branch by cheque to the Minister of Finance.

I estimate that Andrew's cost for travel would run around \$330.00.

If I can provide you with further information, please feel free to ask.

Kind regards,

Gail Poulton | Administrative Assistant

> _____

- > Building and Safety Standards Branch | Office of Housing and
- > Construction Standards Ministry of Natural Gas Development and
- > Minister Responsible for Housing
- > Phone: 250 387- 3133
- > Email: Gail.Poulton@gov.bc.ca

www.gov.bc.ca/buildingcodes

>

From: Pape-Salmon, Andrew OHCS:EX
Sent: Tuesday, April 25, 2017 9:08 AM
To: Tonja Leach

Cc: Poulton, Gail OHCS:EX
Subject: RE: QUEST event

Thanks, it for each meeting.

If we book further in advance, we can get a lower rate. We purchase tickets in bulk, so the cost is minimized – Gail can elaborate.

Cheers,

Andrew Pape-Salmon | P.Eng., MRM, FCAE

Executive Director, Building and Safety Standards Branch

Office of Housing and Construction Standards

Ministry of Natural Gas Development and Minister Responsible for Housing

Cell/Text: 250.812.1933

Tel: 250.387.3133

Email: Andrew.PapeSalmon@gov.bc.ca

Please see our website: www.gov.bc.ca/buildingcodes

From: Tonja Leach [<mailto:tleach@questcanada.org>]
Sent: Tuesday, April 25, 2017 9:06 AM
To: Pape-Salmon, Andrew OHCS:EX
Subject: Re: QUEST event



Hi Andrew,

Thanks for reaching out. I will need to investigate and get back to you on covering your float plane expenses. Can you please clarify if the approximate cost is for the meeting on May 30th and the fall workshop or just the May 30th meeting?

Many thanks,

Tonja

 Sent with Mailtrack

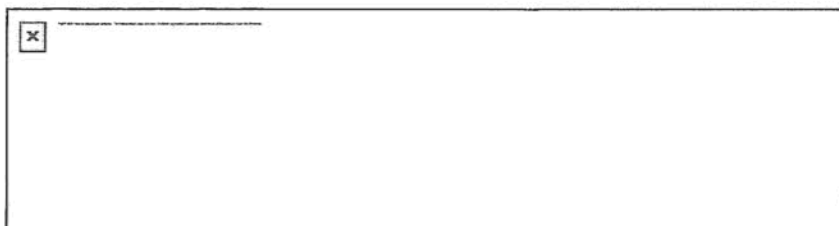
Tonja Leach

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F: 613-627-2938 E: tleach@questcanada.org

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On Tue, Apr 25, 2017 at 11:59 AM, Pape-Salmon, Andrew OHCS:EX <Andrew.PapeSalmon@gov.bc.ca> wrote:

Greetings Tonja,

I realize that QUEST is a non-profit, but given that this is a special project for our Branch, I am obligated to ask if you can provide travel cost assistance to attend the meeting on May 30th and the fall workshop. It would be appreciated if QUEST or one of the BC members is able to cover my float plane expenses, approximately \$450 return.

Thanks for your consideration.



Where ideas work

Travel Request

Control No.

T046666

Freedom of Information and Protection of Privacy: The personal information you are providing is collected for the purposes of travel expense administration and under the authority of the Financial Administration Act. The collection, use and disclosure of personal information is in accordance with the Freedom of Information and Protection of Privacy Act. If you have any questions regarding this collection, please contact your Ministry's Director/Manager of Information and Privacy.

Ministry & Travel Group Code: 131 - 2

Name May, Zachary	Employee ID 522	Phone Number (778) 679-9641
Client Organization Housing	Job Title A/Director, Policy and Codes Develo	Travel Group Code 2

Headquarters Victoria	Responsibility 73128	Type of Travel In Province
--------------------------	-------------------------	-------------------------------

Date Departing 2017/11/28	Date Returning 2017/11/28	Workdays Away 1	Estimated OT Hours	ESTIMATED COSTS (In Canadian Dollars) Transportation Air 450 Ground 50 Hotels Meals Overtime Fees Other SUB-TOTAL 500 Less Paid by Others TOTAL COSTS 500
Organization (other than Province of B.C.) Paying Any of the Cost				
Destinations Vancouver				
Purpose of Travel QUEST BC presentation (costing) + facilitate panel discussion				

Travel Itinerary (to be used when interacting with a travel agent)

Non-Smoking?

No

Wheelchair Access Required

No

Contact Email Address

TICKET DELIVERY

By To (if Different From Above)

Address

SIGNATURES (See Audit Trail)

Print Name

Date Signed

Employee

Ministry Spending Authority

Assistant Deputy Minister

Deputy Minister

(EFI-F0023 v2.3.0)

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In-province Travel 1240-20
Out-of-province Travel 1240-30
Out-of-Canada Travel 1240-40

Audit Trail for Travel Request T046666 for May, Zachary

5 audit trail record(s) returned.

Date/Time	Who	On Behalf Of	Action	Next To Act
2017/11/17 15:58:01	May, Zachary (IDIR\ZMAY) Zachary.May@gov.bc.ca		Saved	May, Zachary Zachary.May@gov.bc.ca
2017/11/17 16:00:26	May, Zachary (IDIR\ZMAY) Zachary.May@gov.bc.ca		Initiated	Pape-Salmon, Andrew Andrew.PapeSalmon@gov.bc.ca
2017/11/21 11:04:26	Pape-Salmon, Andrew (IDIR\APAPESAL) Andrew.PapeSalmon@gov.bc.ca		Approved	Woodley, Catherine Catherine.Woodley@gov.bc.ca
2017/11/22 11:08:24	Woodley, Catherine (IDIR\CWOODLEY) Catherine.Woodley@gov.bc.ca		Forwarded	Steves, Gregory Gregory.Steves@gov.bc.ca
2017/11/23 13:37:25	Steves, Gregory (IDIR\GDSTEVES) Gregory.Steves@gov.bc.ca		Approved	Woodley, Catherine Catherine.Woodley@gov.bc.ca

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Page 024 of 320 to/à Page 046 of 320

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s.13

Page 047 of 320

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s.22

Andrew Pape-Salmon | MRM, P.Eng., FCAE Executive Director, Building and Safety Standards Branch



Andrew Pape-Salmon is the Executive Director of the Building and Safety Standards Branch with the BC Government. The Branch is responsible for:

- The *Building Act* and building regulations such as the BC Building, Plumbing and Fire Codes, including the Energy Step Code.
- *Homeowner Protection Act*, related to warranties, builder licensing and owner builder authorization, implemented by BC Housing.
- *Safety Standards Act*, related to standards for technical systems, including electrical, gas, boiler, elevating, amusement devices, passenger rope ways and railways technologies, implemented by the BC Safety Authority and municipalities.

Andrew is a Professional Engineer with a Master's Degree in Resource and Environmental Management from Simon Fraser. In 2016 he was inducted into the Canadian Academy of Engineering as a Fellow.

Andrew specializes in clean energy policy, economics and systems design. He has worked extensively with the construction and real estate industries, energy utilities and all levels of government to advance energy efficiency and climate leadership strategies for communities, buildings and equipment.

He was previously an Associate and Senior Energy and Sustainability Specialist with RDH Building Science Inc.

Andrew Pape-Salmon | P.Eng., MRM, FCAE
Email: Andrew.PapeSalmon@gov.bc.ca
PO Box 9844 Stn Prov Govt
Victoria, BC, V8W9T2
Tel: 250-812-1933

Date	Status	BSSB?	BSSB Staff	Event
s.13				
2017-11-30	Confirmed	Yes	Zac	Teleconference presentation to Hearth Patio and Barbeque Association
2017-11-28	Confirmed	Yes	Zac	Quest Adapting for Net Zero Ready Buildings BC Energy Step Code Economic Development Opportunities Workshop Outline
2017-11-23	Confirmed	Yes	Zac	BOABC Fall Education Conference
2017-11-23	Confirmed	Yes	Don and Jim	BOABC Fall Education Conference
2017-11-22	Confirmed	Yes	Zac	BCACE
2017-11-17	Confirmed	Yes	Zac	REGIONAL DISTRICT OF NANAIMO ELECTED OFFICIALS AND LOCAL GOVERNMENT STAFF: INTRODUCTION TO THE BC ENERGY STEP CODE
2017-11-15	Confirmed	Yes	Andrew	AIBC
2017-11-10	Confirmed	Yes	Andrew	CRD - Elected Official Energy Efficiency Bus Tour
2017-11-08	POSTPONED TO JANUARY 2018 - DATE TBD	TBD	Andrew for am Juni for afternoon TBD	AIBC and EGBC full-Day - half day ESC, half day LOA
s.13				

Cottier, Anna OHCS:EX

From: Pape-Salmon, Andrew OHCS:EX
Sent: October 16, 2018 12:14 PM
To: Cottier, Anna OHCS:EX
Cc: OHCS BSSB Management Team
Subject: BSSB-Presentations-2018.xlsx
Attachments: BSSB-Presentations-2018.pdf

Anna,

See the attached conference presentations in the folder and the attached PDF. We went through a large number of them and approved some and declined others.

December 6, 2016

10:30 am – 12:00 pm

Spacecraft: 201-4501 Kingsway, Burnaby

Dial-in 778-786-8222 Conference Code 1780347

Meeting Chair: Darrell Mussatto, Mayor of City of North Vancouver & Chair of CEA

AGENDA

- 1. Confirm Quorum (10:35)**
 - A. That the CEA Chair confirm that a quorum of directors has been reached to enable the meeting to proceed. (*decision, page 2*)
- 2. Adoption of Agenda (10:35)**
 - A. That the CEA Members adopt the agenda for this meeting as noted on this page (*decision, page 3*)
- 3. Adoption of the Minutes (10:36)**
 - A. That the CEA Members adopt the minutes from the last Member meeting (September 1, 2016) (*decision, page 3*)
- 4. Treasurer's Report (10:40)**
 - A. That the CEA Members receive the Treasurer's report for information (*information, page 7*)
- 5. Executive Director's Report (10:45)**
 - A. Dale provides a summary of CEA progress during fall 2016 (*information, page 8*)
- 6. Roundtable Update (11:00)**
 - A. Name and organization
 - B. What 1-2 things should others know about what your organization is doing on climate and energy AND/OR what is the most exciting thing you've seen in the last 3 months for communities and climate? (*discussion, page 14*)
- 7. Other Business (11:45)**
 - A. As determined by members
- 8. Timing for Next Meeting (11:57)**
 - A. Discussion (*information, page 14*)
- 9. Adjournment (11:59)**
 - A. That the CEA Members adjourn this meeting (*decision, page 14*)

1. Confirm Quorum

- A. That the CEA Chair confirm that a quorum of directors has been reached to enable the meeting to proceed. Members present and regrets.

Organization	CEA	Member	In Person	Phone	Regrets
BC Transit		Geoff Huber			
Bowen Island		Maureen Nicolson			
Burns Lake		Luke Strimbold			
Castlegar		John Malcolm			
Corix		Nick Capaldo			
Creative Energy		Robert Hobbs			
Metro Vancouver		Jason Emmert			
North Cowichan		Nancy Tate			
Qualicum Beach		Luke Sales			
Province of BC		Janice Larson – MIT Adrian Mohareb - Buildings Br, MNGD Ted Sheldon – MEM Mary Storzer / Brian Bedford – MCSCD			
Prince George		Andrea Byrne			
Prince Rupert		Hans Siedemann			
Prism Engineering		Robert Greenwald / Sam Thomas			
Real Estate Foundation of BC		Jack Wong			
SES Consulting		Scott Sinclair			
Smithers		Taylor Bachrach			
Surrey		Rory Tooke / Jeff Arason			
Translink		Dom Repta			
BC Hydro	Board	Robyn Wark			
City of Vancouver	Board	Susan Haid			
City of North Vancouver	Board	Darrell Mussatto / Caroline Jackson			
Dawson Creek	Board	Cheryl Shuman			
New Westminster	Board	Patrick Johnstone			
New Westminster	Board	Mark Allison			
Province of BC	Board	Ben Finkelstein (ex-officio)			
Richmond	Board	Nick Heap			
UBC	Board	Orion Henderson			
UBCM	Board	Marie Crawford			
CEA	ED	Dale Littlejohn			
CEA	Staff	David Dubois			
CEA	Staff	Megan Lohmann			
CEA	Staff	Jen Grebeldinger			
CEA	Staff	Patricia Bell			
CEA	Staff	Patricia Dehnel			
CEA	Staff	Peter Robinson			
CEA	Staff	Susan Chalmers			
CEA	Staff	Lyla Samuels			

CEA Member Meeting

- Per section 6.2 of CEA's bylaws *"The directors may from time to time set the quorum necessary to conduct business, and unless so set the quorum is a majority of the directors then in office."* And the most recently noted quorum was set at 4.
- CONFIRMED (Y/N)

2. Adoption of Agenda

- A. That the CEA Members adopt the agenda for this meeting (agenda on page 1)
- Moved and Seconded (Y/N)
 - Carried/Unanimous/Defeated:

3. Adoption of the Minutes

- A. That the CEA Board adopt the minutes from the last Member meeting (September 1, 2016) (*decision, page 3*)
- Moved and Seconded (Y/N)
 - Carried/Unanimous/Defeated:

September 1, 2016 from 3:00 – 4:30 pm

Spacekraft – 201-4501 Kingsway

Dial-in 1-778-786-8222 PIN 1780347

Meeting Chair: Darrell Mussatto, CEA Chair and Mayor of City of North Vancouver

CEA 2016 AGM MEMBER MEETING MINUTES

Time	Agenda Item	Notes
3:05	1. Confirm Quorum and Call Meeting to Order	Members Present in Person: Mayor Darrell Mussatto, Caroline Jackson, Nicholas Heap, Orion Henderson and Mark Allison Members Present by Phone: Rory Tooke, Andrea Byrne, Susan Haid, Cheryl Shuman, Ben Finkelstein, Maureen Nicolson, Robyn Wark, and Mary Storzer, Sam Thomas Staff Present in Person: Dale Littlejohn and Susan Chalmers Staff Present by Phone: David Dubois, Megan Lohman, Trish Dehnel, Peter Robinson and Andrea McKenzie (volunteer) Regrets: Members – Marie Crawford, Geoff Huber, Hans Siedemann, John Malcolm, Mayor Luke Strimbold, Nick Capaldo, Jason Emmert, David Desrocher for Julie Pavey, Scott Sinclair, Dom Repta, Mayor Taylor Bachrach, Nancy Bates, Luke Sales, Robert Hobbs, Ted Sheldon, Adrian Mohareb, and Janice Larson Staff - Pat Bell, Jen Grebeldinger and Lyla Samuels
3:05	2. Adoption of Agenda	Motion to adopt agenda Moved by Nicholas and seconded by Orion Motion carried
3:06	3. Adoption of Previous Member Meeting Minutes	Motion to adopt May 24 th member meeting minutes. Nicholas noted one correction to his update: California met its renewable energy target of 33% for a few days.

CEA Member Meeting

		Moved by Caroline and seconded by Orion Motion carried
3:07	4. Treasurer's Report	Mark provided a brief overview. CEA is \$90,000 above budget as of July 31, 2016. The organization was solvent at the end of 2015. This trend is expected to continue for 2016. Motion to receive report Moved by Caroline and seconded by Nicholas Motion carried
3:10	5. Election of Board of Directors	Dale announced the names of board members standing for re-election and one new candidate: Mayor Darrell Mussatto (Chair), Susan Haid, Mark Allison, Nicholas Heap, Robyn Wark, Orion Henderson, Caroline Jackson, Marie Crawford, Councillor Cheryl Shuman, and Councillor Patrick Johnstone (new). Other members were encouraged to join the board but no one else added their name to the nomination list. Motion to adopt the 2016 Board of Directors Moved by Caroline and seconded by Darrell Motion carried
3:15	6. CEA Strategy Progress Report	Dale provided a summary of third quarter activities, progress on strategic priorities and priority initiatives for next year. He also provided some highlights of the BC Climate Leadership Plan. Ben Finkelstein from the Climate Action Secretariat provided some feedback as well. The plan is a starting point for additional announcements in fall 2016 and spring 2017 (before the provincial election). Later this year, the federal government is expected to provide more details on further climate initiatives following provincial/federal negotiations and its new strategy. The CLP does have positive elements such as increased energy efficiency requirements in the BC Building Code and new stretch codes; incentives for EVs and other clean energy vehicles; support for more EV charging infrastructure; further incentives from FortisBC for vehicles that use renewable natural gas and buildings that use more efficient gas equipment; expansion of BC Hydro's DSM programs; and the update of actions under the Climate Action Charter.
3:30	7. Roundtable Update from Members & CEA Staff	Refer to summary of roundtable discussion below this table.
4:10	8. Other Business	Mark suggested reintroducing a 10 or 15-minute presentation from a member on a particular topic at each quarterly meeting as we had done previously. He also recommended using Go to Webinar for people dialling in to the meeting to help them follow the agenda and engage with members attending in person.
4:15	9. Timing for Next Member Meeting	Susan Chalmers will schedule the next member meeting for one day during the week of Nov. 21 or Dec. 5.
4:15	10. Adjournment	Motion to adjourn meeting Moved by Caroline and seconded by Mark. Motion carried

Roundtable Discussion

Q: What 1-2 things should others know about what your organization is doing on climate and energy AND/OR what is the most exciting thing you've seen in the last 3 months for communities and climate?

Rory Tooke, City of Surrey:

The city plans to decarbonize major infrastructure. For instance, its district energy system will start using low carbon fuels, while a biofuel facility is under construction for 2017. The City of Surrey is also supporting "green" education. It's a sponsor for one of CEA's builder workshops that will focus on Energy Star training. The session will be held in early December. On September 28, the city hosts the Greater Vancouver Clean Technology Expo & Championship.

Andrea Byrne, City of Prince George:

Prince George held the Bioenergy Conference in June and offered tours of its district energy system, which was well received by participants. Two new buildings have recently connected to the city's district energy system. The city recently renewed its MOU with partners involved in electric vehicle development with the goal of expanding the EV network around Prince George and is looking into adding two more EVs to the municipal fleet. New targets are currently being set for the city's Greenhouse Gas Management Plan. Andrea continues to sit on the Energy Wise Network.

Susan Haid, City of Vancouver:

Work is progressing on the Renewable Cities Strategy. In July, a report was provided to council approving a net zero strategy for green buildings. It focuses on the creation of strategy versus outlining a detailed strategy at this time. The city is looking at moving from LEED to a Passive House approach as well as district energy to meet performance standards in buildings. The City of Vancouver is working with BC Children's & Women's Hospitals on their EcoCentre (a bioenergy strategy). In addition, the city is investigating the feasibility of district energy along the Cambie corridor as well as a downtown district energy strategy in collaboration with Creative Energy.

Caroline Jackson, City of North Vancouver:

The City of North Vancouver is presently working with the City of Vancouver on an Energy Advisor Program that is expected to launch in January. The city is also offering Strata Managers advisory services in collaboration with FortisBC and BC Hydro. Besides this, the city is reviewing how to achieve its 2020 GHG emission reduction targets. Recently, the city added labels to pumps at gas stations to explain how vehicles are contributing to climate change and what drivers can do to reduce the impact (e.g. better driving habits). Lastly, they are reporting on their mitigation and adaptation work but are struggling with obtaining necessary data.

Nicholas Heap, City of Richmond:

Nicholas noted exciting work that he has seen recently on climate change and communities. People involved in the BC stretch code meetings over the summer have reached good consensus.

Cheryl Shuman & Peter Nelson, City of Dawson Creek:

The newly released Climate Leadership Plan is expected to affect the city and surrounding region considerably. The city has put forward a UBCM resolution on accessible building code.

Orion Henderson, University of BC:

UBC is considering the implications of stretch code and linking it to green building certification. In addition, it is reviewing how to achieve the 2020 targets of its action plan (looking at long term energy pricing). UBC also recently won an IDEA Award for Innovation for its Bioenergy Research & Demonstration Facility.

Mark Allison, City of New Westminster:

The City of New Westminster is finalizing agreements with the Fraser Health Authority for Sapperton District Energy. It will be based on sewer heat recovery from Metro Vancouver mains with biomass as a backup source. It will apply a clean energy levy (2%) on electrical bills if it does not obtain grants. The facility will start operation in 2019 and serve 8 million sq. ft. The city is also expanding Energy Save New Westminster.

Maureen Nicholson, Bowen Island Municipality:

The island municipality will update its CEEP in late Oct. with the help of CEA. It has also recently filed for CARIP with the BC government. Bowen Island Municipality is currently two thirds of the way through developing its Transportation Master Plan and halfway through the planning process and community discussions for an island composting facility. Another notable sustainability initiative on the island is the solar panel demonstration project at the community school.

Ben Finkelstein, Ministry of Environment:

Community emission inventories are now completed for 2012. They are more rigorous and bottom up than before. Further information is now available on the transportation sector including new indicators on transit and walking (as noted by Mary Storzer). Ben also mentioned some sessions at the upcoming UBCM convention including those related to climate responsibility, stretch codes, and CEA's BCMCLC breakfast.

Mary Storzer, Ministry of Community, Sport and Cultural Development:

MCSCD recently released its CLIC tool (Community Lifecycle Infrastructure Costing tool), which compares the costs of different development scenarios to contribute to more sustainable development. CARIP reports will be available soon.

CEA Staff Current Projects:

David Dubois is focused on BC Municipal Climate Leadership Council projects.

Megan Lohman is developing a comprehensive incentive for performance pathway for building code compliance (for tier 1 stretch code adoption); working on organics diversion pilot projects for the Elk and Columbia Valleys which include community engagement and technical assistance; and coordinating an EV infrastructure project along Highway 3 from the Okanagan to the Alberta border. An EV pilot project for southern AB to Calgary is also under consideration.

Trish Dehnel is supporting west Kootenay/FortisBC communities in community emission planning, assisting Megan with the EV initiative in the Kootenay region and working with Interior Health on the Healthy Community portfolio. A CEM position is being considered for the west Kootenays like in the east.

Peter Robinson produced a report on Home Energy Labelling for Nelson earlier this summer. He is currently developing builder workshops around the province for the fall and winter as well as assisting Campbell River with CEEP implementation.

4. Treasurer's Report

A. That the Board receive the Treasurer's report for information

Community Energy Association					
Income Statement		Actual	Budget	Actual	Budget
January 1st to September 30th 2016			(pro-rated)	Less Budget	Remaining
REVENUE					Total Budget
Advisory services					
Income		222,423	240,000	(17,577)	320,000
direct costs		126,008	135,000	(8,992)	180,000
net		96,415	105,000	(8,585)	140,000
Grant-funded Projects					
Income		627,959	356,250	271,709	475,000
direct costs		472,961	337,500	135,461	450,000
net		154,998	18,750	136,248	25,000
Membership/ education, outreach					
Income		46,997	45,000	1,997	60,000
Revenue Summary					
Gross project-based revenue		850,382	596,250	254,132	795,000
Net project-based revenue		251,413	123,750	127,663	165,000
Membership revenue		46,997	45,000	1,997	60,000
Gross income before operating costs		897,379	641,250	256,129	855,000
Net income before operating costs		298,410	168,750	129,660	225,000
Operating costs					
administration and operations		53,031	48,750	4,281	65,000
salaries -less direct wages		183,512	120,000	63,512	160,000
		236,543	168,750	67,793	225,000
Interest & Misc. income		4,019	1,500	2,519	2,000
net income after operating costs		65,886	1,500	64,386	2,000

5. Executive Director's Report

A. CEA Accomplishments this quarter include:

- Funding guide update (BC version and AB version)
- Social media including Facebook, LinkedIn and Twitter for CEA, finalizing integrated digital strategy
- EV planning in Alberta
- 2 contracts in Yukon
- Completed CEEP re-boots for Campbell River and Coquitlam
- Research on retrofits required to meet CEEP commitments across BC
- Active at UBCM including BCMCLC, CEA awards and a Monday presentation
- Bowen CEEP

We are on track to be revenue positive for 2016.

B. For 2017:

- Fueling Change EV network in the Kootenays worth \$1.2 million
- FCM opportunities
 - Regional Coordinator
 - Incremental Staff Program, potential to place 3+ staff with groups of LG's if we find the right people
 - Integration into PCP renewal
- FortisBC
 - Energy Specialist pilot for RDCK
 - Strategic Energy Planning funding envelope for electric service territory

C. CEA 2016 Q4 Activities

Community Energy Association | 2016 Q4 Update

EDUCATION

Certificate in Community Energy Management:

CEA is in the process of trademarking the CCEM designation and setting up a LinkedIn group to support networking. The two courses in the 2016 program (delivered via BCIT) are complete. Eighteen students finished the introductory course. The second course – Community-based Renewable Energy - began on November 2.

The complete on-line professional development certificate program includes guidance on district energy and heat systems, planning for electric vehicle charging infrastructure, energy and emissions planning for small communities, investment in and governance of green energy systems, green energy and local economic development, community energy dieting, and more. For further information, visit our [website](#).

PROJECTS

RDEK Community Energy Manager (CEM3):

The final quarter of the CEM3 project wrapped up at the end of September and we have rolled right through to CEM4 with the continued support of the Regional District of East Kootenay, Columbia Basin Trust and BC Hydro.

The key areas of the work plan for the next year include the development of an Energy Step Code policy for East Kootenay local governments, enhancing training and capacity building across the region around energy efficient new and existing homes, implementing 'Fueling Change', the Kootenay-wide electric vehicle initiative, and supporting organic waste diversion.

The RDEK Board of Directors approved the work plan for this year and were particularly interested in the implementation of the electric vehicle strategy. Megan has submitted proposals to a number of funding partners and expects that all final funding allocations will be confirmed in early December. Implementation of the EV strategy will accelerate the transition of the transportation sector by providing a robust charging network across the region.

The Energy Step Code is going to provide communities with the opportunity to require better-than-code energy performance. Over the next year, there is an opportunity to ensure that local governments, builders, trades, contractors, realtors and other building related industries are prepared to respond to more aggressive energy performance requirements in new homes. To that end, a series of builders workshops will be facilitated over November 16-18 across the East Kootenay, leveraging local and provincial expertise to educate and inform the local building industry about energy efficient building practices. More training opportunities will be identified throughout the year.

A new component of the CEM work plan, which is funded separately by BC Hydro, will be the delivery of an enhanced Energy Conservation Assistance Program (ECAP) to Ktunaxa Nation band communities in the East Kootenay. This program will seek to address training and capacity gaps, identify the challenges and barriers to energy efficiency, and then deliver a program that will lead to energy efficiency and comfortable homes.

CEM Ideation projects are also underway. The first one is a training gap analysis for BC that will identify existing training opportunities in support of the BC Step Code for construction related professions, including planners, architects/designers, building inspectors, energy advisors, builders and tradespeople, through a geographic lense. The goal is to determine gaps in training by role and geography and allow strategic training needs to be developed or expanded. The second initiative is a guide of local governments to assist with long term planning for electric vehicle charging infrastructure including considerations of municipal roles in installation and operation, cost recovery, etc.

BC Hydro CEEP QuickStart:

Having completed 44 Community Energy & Emissions Plans (CEEPs) through the CEEP QuickStart program (1 out of every 5 CEEP's completed in Canada), CEA is continuing to help small and mid-sized communities in the BC Hydro area with implementation including:

- Support with implementing innovative planning and policy measures on energy efficiency in buildings;
- Learning opportunities for local government staff and a peer-to-peer staff learning network through the Community of Practise; and
- Being the local government portal for access to PowerSmart energy efficiency program materials.

In the last quarter, CEA has:

- Provided a highly engaged CEEP for Bowen Island municipality;

- Conducted a very well received webinar on the Province of BC's Climate Leadership Plan with about 60 attendees; and
- Offered ongoing support on BC Hydro programs to a number of communities, including Kamloops and Sunshine Coast Regional District.

CEA has also continued to work on the Prince Rupert CEEP, which will be delivered in late November.

Strategic Community Energy & Emissions Planning (SCEEP) in the West Kootenays:

The SCEEP project has wrapped up with 10 FortisBC/Kootenay community SCEEPs and implementation support for 11 communities. Outreach to other neighbouring communities has been ongoing in the form of Council presentations and staff meetings. A short project final report on the implementation component will be delivered to funding partner FortisBC prior to year end. This will augment the report provided to funder Columbia Basin Trust in April 2016.

The implementation phase for this quarter included the following outreach: Staff meetings or Council/Board presentations/workshops of Rossland Corporate Energy workshop (Sept 13); Montrose Council meeting (Sept 19); Trail Council meeting (Oct 11); Support for Sustainable Salmo OCP community workshop (Oct 11); staff meeting in Nelson to review the Energy Labelling report (Oct 25). The Community Energy Manager concept has been further explored with RDCK and to a lesser extent with RDKB. The RDCK CEM work-plan will be informed by the SCEEPs and focus on policy development and implementation.

In the last quarter, CEA completed a draft report for the City of Nelson on policy tools for encouraging energy efficient existing and new homes. CEA provided information to the City on how they could provide incentives to encourage more energy efficient homes, and also how they could work towards mandatory home energy labelling for new or existing homes. The report included a review of building permit activity in Nelson over the last few years and the implications of this when considering policies. For the City of Castlegar, a draft road map to achieve OCP targets through SCEEP implementation is under development.

A Corporate Energy and Emissions Reduction Planning workshop for Rossland staff was facilitated in September as part of the Rossland SCEEP implementation. The Rossland corporate plan has been finalized and adopted by Council. In Salmo, the SCEEP is being used to inform the OCP/Sustainability Planning community planning process with participation of CEA staff.

Getting to Implementation:

The research phase for this national 3-year \$1.1 million project has been completed. Work is underway on accelerating implementation with the three pilot communities of Campbell River, Calgary and Waterloo. CEA attended a number of meetings with the City of Calgary to discuss CEEP implementation. Following numerous meetings and considerable engagement with the City of Campbell River, CEA (with QUEST) completed a detailed 70-page implementation strategy for their CEEP. Learn more about this initiative and communities [here](#).

An open source guide, the Community Energy Implementation Framework, which is designed to help communities move Community Energy Plans from a vision to implementation, was released in beta at QUEST2016 – Smart Energy Communities for Jobs, Infrastructure and Climate Action by the Community Energy Association, QUEST and Sustainable Prosperity. The Framework contains 10 strategies that provide advice on political, staff and stakeholder engagement; staff and financial capacity; and embedding energy into local government plans and processes. Laid out in an easy to

use online format, the online tool also includes an Implementation Readiness Survey - a self-evaluation tool intended to help communities identify areas of strength and weakness for implementation. Access the Framework [here](#).

Haines Junction Community Energy & Emissions Inventory & Old Crow Modelling:

CEA completed its second piece of work for the Yukon Government's Climate Change Secretariat under budget, and with the remainder of the project budget then created an energy and emissions modelling tool for the community of Old Crow. The modelling tool shows how energy and emissions will increase under different population scenarios, in a Business As Usual case, if a large solar photovoltaic project is implemented, and if a comprehensive energy efficiency retrofit project takes place. Shortly after the project was completed, CEA bid on two RFPs from the Yukon Government for further energy and emissions inventory work for Carcross and Teslin, and it won both bids.

BC Municipal Climate Leadership Council:

The BCMCLC Breakfast at UBCM was very successful with over two dozen attendees including Ministers Polak, Fassbender and Bernier as well as MLA Sturdy, Heyman, Holman and Weaver. BCMCLC has also welcomed three new core members: Bowen Island, Prince Rupert and New Westminster. In addition, we were able to cohost a successful breakfast clinic with City of Richmond, District of Sparwood, BC Hydro and others on Step Code. We are working on a webinar series for the new year with a goal to forge stronger relationships with the CEM and the BC Hydro Community of Practise.

Climate & Energy Action Awards:

The Community Energy Association, Union of BC Municipalities, BC Hydro, FortisBC, Province of BC, and Real Estate Foundation of BC are pleased to announce the winners of the 2016 Climate and Energy Action Awards.

The Honourable Mary Polak, Minister of Environment, presented awards recognizing the leadership of the cities of North Vancouver, Coquitlam and Kimberley at the Union of BC Municipalities convention. City of North Vancouver won in the Community Planning and Development category for the Moodyville Neighbourhood rezoning. City of Coquitlam won in the Corporate Operations category for implementation actions associated with its Corporate Strategic Energy Management Plan. City of Kimberley's Sun Mine project won in the Public Sector Collaboration category. Honourable Mentions were awarded to: District of Sparwood in the Community Planning category for its energy efficiency incentive building permit rebate program; Cowichan Valley Regional District for the Island Savings Centre energy upgrades; and Cities of Coquitlam, Surrey and Vancouver, FortisBC and BC Hydro for the Empower Me program.

This year, winners and honourable mentions will also be profiled in the December 2016 edition of *Municipal World* Magazine. A list of this year's applicants and their projects is [here](#).

QUEST Solutions Tables:

A follow up Solutions Table has been rescheduled from November 1st to Q1 in 2017. It was decided to postpone the session to allow for feedback from the Pembina Institute's Thought Leadership Forum at the end of November as well as a hope to have a better understanding of the direction to be taken from the federal government.

RDKB Corporate Energy Plan Refresh:

The RDKB Corporate Energy Planning Refresh Project will regroup, refocus and refresh the existing energy and emission reduction documents, policies and actions currently underway in the RDKB. A senior management staff workshop took place on October 26 in Trail with Peter Robinson and Trish Dehnel facilitating. A final report will be delivered by the end of November.

RDCK Area D Energy Scan:

Staff have completed the site visit to Kaslo and area D to review site specific locations to evaluate a number of energy projects including solar, potential for biomass and inline water micro hydro system. The outline of the report has been completed and a draft report is expected by the end of November.

Builders' Workshops:

Following CEA's successful builders' workshops in February and March, CEA was invited by BC Hydro to submit a proposal for another series of approximately 8 builders' workshops in BC to help train builders in building to ENERGY STAR® for New Homes. This project is taking place through to the end of March. CEA has set up workshops in Invermere (Nov 16), Fernie (Nov 17), Cranbrook (Nov 18), Surrey & Langley (Dec 1), and Victoria (Dec 5). CEA is about to set up workshops for Prince George, Chilliwack, and Kamloops. The project involves collaboration with a wide number of partners, including BC Hydro, FortisBC, the Province of BC, the Homeowner Protection Office, and numerous local government partners. Out of these local government partners, the City of Surrey, Township of Langley, City of Kamloops, and Fraser Valley Regional District are particularly notable for their impressive support.

District Energy Community of Practise:

CEA received a small contract with NRCan to evaluate the opportunity and need to develop a Community of Practise for district energy practitioners. The project has involved conducting interviews within the DE community to determine the level of interest in having a regular webinar to discuss any issues. This will be followed up with a pilot webinar in Q1 of 2017. It will be used to develop a business case/plan for an ongoing series, which could begin after March 2017.

Solar Now:

CEA is working with Clean Energy Canada to create a Solar Now how-to guide for single family homeowners in Metro Vancouver. The guide will highlight the benefits of solar photovoltaic panels, costs associated with installing a system and frequently asked questions. It will be released the end of November at a Solar Now event celebrating the installation of solar PV panels at the Creekside Community Centre in Vancouver.

BC and Alberta Funding Guides:

CEA has updated its BC Funding Guide to 2016. The guide can be found [here](#). Under the umbrella of the Getting to Implementation project, CEA has also prepared an Alberta funding guide, which will be provided to the City of Calgary and distributed through CEA's website and other relevant partners.

PRESENTATIONS AND OUTREACH

Presentations and Workshops where CEA participated include:

- Peter presented to the City of Campbell River Community Energy Planning Steering Committee for the last time on August 17.
- Dale reviewed BC's Climate Leadership Plan & what it means for local governments on a CEEP QuickStart webinar on September 22.
- David and Megan helped to facilitate a Step Code Session at the UBCM Convention in Victoria in September. Meanwhile, Dale presented on the BC government's Climate Leadership Plan and the role of non-profits in helping local governments achieve climate objectives at this convention.
- During the QUEST 2016 conference in Calgary from October 17-19, Dale facilitated a workshop on Getting to Implementation as well as a roundtable dialogue on community action and technology.
- David conducted a Community Energy Planning Visualization exercise at a bioenergy conference in Timmins, Ontario on October 21 at the request of the Ontario Ministry of Energy, Mines & Natural Resources.

- Trish provided overall Community Energy and Emissions Planning presentations to the Certification in Community Energy Management course on October 19 and to the Interior Region Healthy Communities Regional Forum “Healthy Communities Partnerships: Moving Upstream for Greater Impact” in Vernon on October 27.
- Trish attended the Community Engagement Workshop on Environmental Sustainability, Rossland, September 15; a meeting with NRCan, Ottawa, October 6; Fortis BC Resource Planning Community Stakeholder Workshop, Rossland, October 20; and Zero Waste Conference, Vancouver, November 3 (along with Dale).
- Pat and Dale facilitated Bowen Island Municipality’s CEEP Quickstart workshops on October 25 & 26, while David and Peter led similar workshops in Prince Rupert in late November.
- David presented FIRST Heat to the Wildland Fire Conference in Kelowna on October 27.

INSIDE CEA

Connect with us online! CEA has made the plunge into social media and we are looking forward to connecting with you on Twitter, Facebook, and LinkedIn and re-enforcing your work on climate action to our networks. Feel free to give us a follow and ask your Communications team to do the same. Here are the links:

[Facebook](#) | [Twitter](#) | [LinkedIn](#)

6. Roundtable Update

- A. Discussion: What 1-2 things should others know about what your organization is doing on climate and energy AND/OR what is the most exciting thing you've seen in the last 3 months for communities and climate?

7. Other Business

- A. As determined by members - discussion

8. Timing of Next Meeting

- B. Discussion – late February / early March

9. Adjournment

- A. That the CEA Members adjourn this meeting
 - Moved and Seconded?
 - Carried/ Unanimous/Defeated

February 7, 2017

10:30 am – 12:00 pm

Spacecraft: 201-4501 Kingsway, Burnaby

Dial-in # 778-786-8222; Conference Code 1780347

Go to Meeting To Access EV presentation: <https://global.gotomeeting.com/join/515110653>

Meeting Chair: Darrell Mussatto, Mayor of City of North Vancouver & Chair of CEA

AGENDA

- 1. Confirm Quorum (10:35)**
 - A. That the CEA Chair confirm that a quorum of members has been reached to enable the meeting to proceed. (*decision, page 2*)
- 2. Adoption of Agenda (10:35)**
 - A. That the CEA Members adopt the agenda for this meeting as noted on this page (*decision, page 3*)
- 3. Adoption of the Minutes (10:36)**
 - A. That the CEA Members adopt the minutes from the last Member meeting (December 6, 2016) (*decision, page 3*)
- 4. Executive Director's Report (10:38)**
 - A. Dale provides a summary of CEA activities since the last minute and a look ahead for 2017 (*information, page 7*)
- 5. CEA Membership Value Statement (10:43)**
 - A. That the CEA Members discuss the value of CEA membership for new members (*discussion, page 13*)
- 6. Roundtable Update (11:00)**
 - A. Name and organization
 - B. What 1-2 things should others know about what your organization is doing on climate and energy AND/OR what is the most exciting thing you've seen in the last 3 months for communities and climate? (*discussion, page 14*)
- 7. Presentation: Fueling Change EV Project (11:40)**
 - A. Presentation by Megan Lohmann
- 8. Timing for Next Meeting (11:58)**
 - A. Discussion (*information, page 14*)
- 9. Adjournment (11:59)**
 - A. That the CEA Members adjourn this meeting (*decision, page 14*)

CEA Member Meeting

1. Confirm Quorum

- A. That the CEA Chair confirm that a quorum of directors has been reached to enable the meeting to proceed. Members present and regrets.

Organization	CEA	Member	In Person	Phone	Regrets
BC Transit		Geoff Huber			
Bowen Island		Maureen Nicolson			
Burns Lake		Mayor Beach			
Castlegar		John Malcolm			
Corix		Nick Capaldo			
Creative Energy		Robert Hobbs			
Delta		Mike Brotherston			
FortisBC		Brent Graham			
Metro Vancouver		Jason Emmert			
Nelson		Carmen Proctor			
North Cowichan		Mayor Lebefure			
North Vancouver (District)		Monica Poitras			
Province of BC		Janice Larson, Adrian Mohareb Ted Sheldon, Mary Storzer			
Prince George		Andrea Byrne			
Prince Rupert		Hans Siedemann			
Prism Engineering		Robert Greenwald			
Qualicum Beach		Luke Sales			
RDKB		Goran Denkovski			
Real Estate Foundation of BC		Jack Wong			
SES Consulting		Scott Sinclair			
Smithers		Mark Allen			
Surrey		Rory Tooke			
Translink		Dom Repta			
Urban Development Institute		Jeff Fisher			
BC Hydro	Board	Robyn Wark			
City of Vancouver	Board	Susan Haid			
North Vancouver (City)	Board	Mayor Mussatto / Caroline Jackson			
Dawson Creek	Board	Cheryl Shuman			
New Westminster	Board	Patrick Johnstone / Mark Allison			
Province of BC	Board	Ben Finkelstein (ex-officio)			
Richmond	Board	Nick Heap			
UBC	Board	Orion Henderson			
UBCM	Board	Marie Crawford			
CEA	ED	Dale Littlejohn			
CEA	Staff	David Dubois			
CEA	Staff	Megan Lohmann			
CEA	Staff	Jen Grebeldinger			
CEA	Staff	Patricia Bell			
CEA	Staff	Patricia Dehnel			
CEA	Staff	Peter Robinson			

CEA	Staff	Susan Chalmers			
CEA	Staff	Lyla Samuels			

- Per section 6.2 of CEA's bylaws *"The directors may from time to time set the quorum necessary to conduct business, and unless so set the quorum is a majority of the directors then in office."* And the most recently noted quorum was set at 4.
- CONFIRMED (Y/N)

2. Adoption of Agenda

- A. That the CEA Members adopt the agenda for this meeting (agenda on page 1)
- Moved and Seconded (Y/N)
 - Carried/Unanimous/Defeated:

3. Adoption of the Minutes

- A. That the CEA Board adopt the minutes from the last Member meeting (Dec. 6, 2016) (*decision, page 3*)
- Moved and Seconded (Y/N)
 - Carried/Unanimous/Defeated:

December 6, 2016 from 10:30 am – 12:00 pm

Spacekraft – 201-4501 Kingsway

Dial-in 1-778-786-8222 PIN 1780347

Meeting Chair: Darrell Mussatto, CEA Chair and Mayor of City of North Vancouver

CEA 2016 Q4 MEMBER MEETING MINUTES

Time	Agenda Item	Notes
10:38	1. Confirm Quorum and Call Meeting to Order	<p>Members Present in Person: Darrell Mussatto, Caroline Jackson, Jason Emmert and Patrick Johnstone</p> <p>Members Present by Phone: Janice Larson, Adrian Mohareb, Mary Storzer, Andrea Byrne, Hans Siedemann, Robert Greenwald, Leanne Sexsmith, Rory Tooke, Mark Allison, Peter Nelson, Maureen Nicolson, and Scott Sinclair</p> <p>Staff Present in Person: Dale Littlejohn, Susan Chalmers, Pat Bell and Peter Robinson</p> <p>Staff Present by Phone: David Dubois, Trish Dehnel and Lyla Samuels</p> <p>Regrets: Members – Marie Crawford, Orion Henderson, Nicholas Heap, Robyn Wark, Susan Haid, Geoff Huber, John Malcolm, Nick Capaldo, Robert Hobbs, Jon Lefebure, Luke Sales, Dom Repta, Mark Allen, Ted Sheldon, Ben Finkelstein, and Mike Brotherston</p> <p>Staff – Megan Lohmann and Jen Grebeldinger</p>

10:43	2. Adoption of Agenda	Motion to adopt agenda Moved by Caroline and seconded by Pat Motion carried
10:44	3. Adoption of Previous Member Meeting Minutes	Motion to adopt Sept. 1 st member meeting minutes. Caroline noted an adjustment to her roundtable update with regards to the Strata Energy Advisor Program. The City of North Vancouver is working with Metro Vancouver, the City of Vancouver, the Condominium Homeowners Association and a number of other municipalities and partners on a Strata Energy Advisor Program that is expected to launch in January. Moved by Caroline and seconded by Pat Motion carried
10:45	4. Treasurer's Report	Dale provided a brief overview on behalf of Mark who was unable to attend to first portion of the meeting. We are in good financial position as we approach the end of 2016. CEA is expected to reach \$1 million in revenue this year.
10:46	5. Executive Director's Report	Dale provided a summary of fourth quarter activities as well as potential and confirmed lucrative 2017 projects.
10:54	6. Roundtable Update from Members & CEA Staff	Refer to the summary of roundtable discussion below this table.
11:38	7. Presentation on Pan-Canadian Framework	Dale presented on key aspects of the four climate change working group reports released by the federal government that will drive the Pan-Canadian Framework on Clean Growth & Climate Change. A link to the reports on mitigation, adaptation, carbon pricing and clean technology is provided here . Discussions on the framework begin at the First Ministers Meeting in early December. Dale highlighted some best cases and policy directions for transportation, buildings and fuel switching from the mitigation report (refer to his power point presentation). Municipalities are advised to review projections and CEEP assumptions and adjust actions to align with direction of this framework; plan infrastructure and incentives to access federal and provincial funds; and address outreach and knowledge needs to keep up with the new direction.
11:56	8. Timing for Next Member Meeting	Susan Chalmers will schedule the next member meeting for one day during the first week of February. Dale asked members to provide feedback on what to feature at meetings. Mark enjoyed the presentation on the Pan Canadian Framework and encouraged more of them.
11:58	9. Adjournment	Motion to adjourn meeting Moved by Patrick and seconded by Pat. Motion carried

Roundtable Discussion

Q: What 1-2 things should others know about what your organization is doing on climate and energy AND/OR what is the most exciting thing you've seen in the last 3 months for communities and climate?

Maureen Nicholson, Bowen Island Municipality:

The CEEP, which was developed at a workshop led by Pat and Dale of CEA, will be presented to council next week for approval.

Jason Emmert, Metro Vancouver:

The Strata Energy Advisor Program will launch next year. The regional municipality is getting ready to release an RFP. Metro Vancouver is also incorporating energy efficiency measures when doing upgrades to buildings and facilities. It will be putting out a new integrated Climate Action Strategy soon that will tie together many initiatives. Metro Vancouver plans to talk to stakeholders on how to move it to next level.

Janice Larson, Ministry of Technology, Innovation & Citizens Services:

While there are no specific updates for her department, she is personally working towards a net zero and passive house. She will be making a video of the process to show others who are interested.

Adrian Mohareb, Building & Safety Standards, Office of Housing & Construction Standards, Branch of Ministry of Natural Gas Development:

The province has released a report on the Energy Step Code, which can be found [here](#). The province is working with stakeholders to have the Energy Step Code ready for referencing before Section 5 of the Building Act comes into force in December 2017.

Mary Storzer, Ministry of Community, Sport and Cultural Development:

As part of refreshing actions under the Climate Action Charter, the provincial government-UBCM Green Communities Committee has convened to identify strategies and actions to address climate change and to support local government action and capacity. The working groups will help to determine what is needed and the intended outcomes going forward. They will primarily look at practical actions related to land use and green infrastructure that mitigate climate change or improve our resiliency. Infrastructure could be urban forests, renewable energy, among other topics.

Caroline Jackson, City of North Vancouver:

With the upgrade to the waste treatment plant, there is an effluent heat recovery opportunity. The city is working with Metro Vancouver to share credits among member municipalities on this project.

Andrea, City of Prince George:

The University of Northern BC's Environmental Engineering Department is conducting a waste heat feasibility study for the city's arena. The city is also considering purchasing a second electric vehicle. It has applied for incentives for charging infrastructure and looking into expanding the network. Staff at the city are also taking part in a lights out challenge.

Hans Siedemann, City of Prince Rupert:

The city completed its CEEP 2 weeks ago in a workshop led by David and Peter of CEA. It has started to implement some actions. For example, it is developing a cost charges bylaw for energy efficiency rebates as part of its Home Energy Retrofit Program. Meanwhile, the city was recently awarded a contract for a new potable water supply from its dam. It would like some power recovery for controls in dam and a maintenance station on site.

Robert Greenwald, Prism Engineering:

The firm has been working with a municipal client to identify how to reach an 80% GHG reduction target in the future. The transportation and building sectors will play a significant role in the reduction plan.

An interesting fact that he learned from Pembina Institute's Thought Forum was that there are now electric powered garbage trucks.

Leanne Sexsmith, REFBC:

The foundation's main focus area is on the sustainability of the built environment. It is conducting research to accelerate action on it (e.g. trends, drivers and barriers). As part of this work, it is looking at integrating transportation and land use too. Recently, REFBC initiated a working group with Metro Vancouver to determine how to strategize for local government climate action. They are talking with the Ministry of Community, Sport and Cultural Development plus the Climate Action Secretariat to see how they can be involved too. REFBC is also involved in a philanthropic project. It aims to increase housing retrofits to improve housing affordability.

Scott Sinclair, SES Consulting:

The firm has completed retrofits at Karen Magnussen Community Centre in the District of North Vancouver. The centre will use ice rink waste heat as a heating source. Lighting and automation upgrades were also conducted as part of the retrofit. The centre is on track for its target of a 90% GHG emission reduction. In addition to this project, SES Consulting recently opened a Calgary office. An interesting program that he has become aware of is the federal/provincial Social Infrastructure Fund. Funding will be available for energy efficiency opportunities for social housing.

Rory Tooke, City of Surrey:

The city is constructing a new 90,000 sq. ft. community hub for the Clayton Heights area. It is looking into designing to the Passive House Standard. If so, it will likely be largest of its kind in the world. Two new positions for the Sustainability Office will also be posted in early 2017.

Peter Nelson, City of Dawson Creek:

The city recently joined BC Hydro's Energy Wise Network and it is in the process of setting energy reduction targets. In addition, it has developed a carbon capture unit for one of its boilers. In order to educate students on climate change, the municipality has also developed a Climate Cool Down Training model where high school students train middle school students.

Patrick Johnstone & Mark Allison, City of New Westminster:

The municipality recently reported on the 9th year of its CEEP. The targets look good and it is getting ready for the next 10-year plan. Council has also approved a sewage heat recovery energy system. The city plans to implement it for 2020 to tie in with new Royal Columbian Hospital Centre that will have a steam to hot water system. Besides these initiatives, the city is planning to replace the Canada Games Pool. Meanwhile, Energy Save New West has expanded into MURBs. The city has the highest proportion of rentals at 40%. So far, 28 buildings have sign up and the results are positive. In the future, they will expand into strata buildings.

CEA Staff Current Projects:

David Dubois continues to coordinate the BC Municipal Climate Leadership Council. Quarterly meetings for the council will begin next week. The session held at UBCM in September was well attended by a high energy group. In addition, David is organizing a district energy community of practice that will feature webinars on various topics. Finally, he is coordinating the next Solution Table, which will focus on new models to facilitate retrofits in residential buildings and MURBs.

Pat Bell has been managing the production of a guide on solar PVs installation for single family homes in Metro Vancouver for Clean Energy Canada. In addition, she is working on a training gap analysis for the Energy Step Code.

Trish Dehnel has completed the SCEEP program for Fortis BC communities. Ten communities participated in it. There is the potential for an RDCK energy specialist like the one at RDEK. Trish is also working on organizing two builder workshops for the west Kootenays in March 2017.

Peter Robinson has been coordinating several builder workshops on the Energy Step Code and Energy Star for New Homes for fall 2016 and winter 2017. The ones on the south coast have been well attended with 90 people in Surrey and 55 in Victoria. He will also be facilitating a solar PV webinar this week.

Lyla Samuels has been working on the review for 2015 financials. It will be complete by the end of 2016. The Getting to Implementation project is also coming to end so she is finalizing financials for it too.

4. Executive Director's Report

- A. That CEA Members receive Dale's summary of CEA activities since the last meeting and a look ahead for 2017:

CEA had a strong and busy 2016. CEA also used 2016 to set up for even more in 2017.

CEA's direction for 2017 includes:

- Implementation of EV network in the Kootenays
- FCM PCP Regional Coordinator
- Tighter linkage to USDN
- Increase number of CEA staff delivering shared CEM services to clusters of communities
- Step-code implementation support
- Deeper training and engagement for elected officials (BCMCLC, CLI)

Community Energy Association | 2017 Q1 Update

EDUCATION

Certificate in Community Energy Management:

CEA is in the process of trademarking the CCEM designation and setting up a LinkedIn group to support networking. The two courses in the 2016 program (delivered via BCIT) are complete. Eighteen students finished the intro course. Registration is open for the following upcoming courses:

Green Energy & Local Economic Development (Feb. 15 – Mar. 17)
 Financing & Governance for Green Energy Systems (Mar. 29 – Apr. 26)
 Reducing Energy Use in New & Existing Buildings (May 3 – June 2)
 Low Carbon Transportation (Jun. 7 – Jul. 7)

The complete on-line professional development certificate program includes guidance on district energy and heat systems, planning for electric vehicle charging infrastructure, energy and emissions planning for small communities, investment in and governance of green energy systems, green energy and local economic development, community energy dieting, and more. For further information, visit our [website](#).

CEA is currently developing a process for practicing Community Energy Managers to qualify for certification.

PROJECTS

RDEK Community Energy Manager (CEM3):

The key areas of the current work plan include the development of an Energy Step Code policy for East Kootenay local governments, enhancing training and capacity building across the region around energy efficient new and existing homes, implementing the 'Fueling Change' electric vehicle initiative, and supporting organic waste diversion.

Funding has been secured from different levels of government, utilities and other partners for the Kootenay EV initiative, which will install 50-60 L2 stations and 10-15 L3 stations in communities along Highway 3 and 95 by the end of 2017. Site assessments for the charging stations will begin in February.

Last summer's pilot project for organic waste diversion was quite successful. Work is underway to expand this further throughout the region.

Similarly, work continues on developing policy for the new Energy Step Code and enhancing training for the building community to increase the number of energy efficient homes.

A new component of the CEM work plan, which is funded separately by BC Hydro, will be the delivery of an enhanced Energy Conservation Assistance Program (ECAP) to Ktunaxa Nation band communities in the East Kootenay. This program will seek to address training and capacity gaps, identify the challenges and barriers to energy efficiency, and then deliver a program that will lead to energy efficiency and comfortable homes.

BC Hydro CEEP QuickStart:

Having completed 45 Community Energy & Emissions Plans (CEEPs) through the CEEP QuickStart program, CEA is continuing to help small and mid-sized communities in the BC Hydro area with implementation including:

- Support with implementing innovative planning and policy measures on energy efficiency in buildings;

- Learning opportunities for local government staff and a peer-to-peer staff learning network through the Community of Practice; and
- Being the local government portal for access to PowerSmart energy efficiency program materials.

In the last quarter, CEA has:

- Provided an engaged CEEP for the City of Prince Rupert;
- Conducted a very well received webinar on solar photovoltaics in BC with about 50 attendees;
- Supported the BC Municipal Climate Leadership Council's webinar on the Pan-Canadian Climate Framework;
- Offered ongoing support on BC Hydro programs to a number of communities; and
- Started work on assessing the readiness of BC local governments for implementing the Energy Step Code, including creating a survey with many partner organizations.

Getting to Implementation:

This national 3-year \$1 million project is now complete. A key product of the initiative is an open source guide, the Community Energy Implementation Framework, which was designed to help communities move Community Energy Plans from vision to implementation. The Framework contains 10 strategies that provide advice on political, staff and stakeholder engagement; staff and financial capacity; and embedding energy into local government plans and processes. The online tool also includes an Implementation Readiness Survey - a self-evaluation tool to help identify areas of strength and weakness for implementation. Discussion on the next iteration of GTI will begin in Q2.

Carcross and Teslin Community Energy & Emissions Inventory (Yukon):

CEA has started work on creating energy and emissions inventories for the Yukon communities of Carcross and Teslin. Broken down community electricity consumption information, and some First Nations government and Yukon government information has been obtained so far. Work is ongoing.

BC Municipal Climate Leadership Council:

BCMCLC been working to better engage with it's core members by having the first of ongoing quarterly meetings. The meeting was held Dec. 12, 2016 and the next one is scheduled for March 16th, 2017. BCMCLC is also working on a series of webinars for Q1 of 2017. The first saw Dale present on the Pan-Canadian Framework on Climate Change and had over 20 attendees. It will be followed by one on LED streetlights in February and step code in March. Work has also continued on the Climate Leadership Institute. Originally this was scheduled for April but it has been changed to the fall in order to arrange additional funding. BCMCLC is also developing a short primer or brief that can be circulated to candidates running for provincial office. The document will lay out relationship between local governments and the province as it relates to climate action.

QUEST Solutions Tables:

Work continues on the last two QUEST BC Solutions Tables. They will focus on trying to develop specific protocols that local governments can use to target retrofits of residential buildings and MURB's. The residential table will focus on providing specific guidance on residential retrofits as part of the NR Can Energy Efficiency Project. The MURB table will focus on researching ideal candidate buildings in a community and testing various aspects of Energie Sprong and MEETS retrofit models. These meetings are scheduled for the last half of Q1.

RDKB Corporate Energy Plan Refresh:

The RDKB Corporate Energy Planning Refresh report was completed in December 2016. As follow up, CEA has offered a small contract to provide minimal consulting services to RDKB in 2017 to assist with CARIP reporting and ensuring offsetting projects reported accurately.

RDCK Area D Energy Scan:

The scan has been completed and submitted to RDCK.

Builders' Workshops:

Following CEA's successful builders' workshops in February and March 2016, CEA was invited by BC Hydro to submit a proposal for another series of approximately 8 builders' workshops in BC to train builders to build to the ENERGY STAR® for New Homes standard. This project is taking place through to the end of March. Over November and December, CEA completed workshops in Invermere (20 attendees), Fernie (23 attendees), Cranbrook (35 attendees), Surrey & Langley (90 attendees), and Victoria (56 attendees). CEA has set up workshops for Prince George (Feb 16), Kamloops (Feb 28), and Chilliwack (March 3). Potential additional workshops may take place in Surrey & Langley (again) and Campbell River, and a side project that has arisen in Central Kootenay & Kootenay Boundary (see below project). The workshops involve collaboration with a wide number of partners including BC Hydro, FortisBC, the Province of BC, BC Housing, NR Can, the Real Estate Foundation of BC, local government partners, CHBA BC, and local CHBA chapters. Of the local government partners, the City of Surrey, Township of Langley, Capital Regional District, City of Kamloops, Fraser Valley Regional District are particularly notable for their impressive support.

Builders' Workshops Central Kootenay & Kootenay Boundary:

Based on the outline prepared for BC Hydro communities, a similar builders training program has been developed for the FortisBC electrical service area. Workshops are being organized for Nelson (March 7), Rossland (March 8) and Grand Forks (March 9). Workshops funded by FortisBC and BC Hydro (CELP program) with collaborative support from CHBA BC, the Province of BC, BC Housing, NR Can, and the Real Estate Foundation of BC. Local government partners are Regional District of Kootenay Boundary, Regional District of Central Kootenay, City of Nelson, City of Rossland and City of Grand Forks. Workshops all include an on-site demonstration of a blower door test by a certified energy advisor at a local new home building site. Participants will receive ENERGY STAR® for New Home training and certification.

District Energy Community of Practice:

CEA has conducted a series of interviews with some of the major players in the district energy market to determine the viability of developing a community of practise for district energy system operators. A sample demonstration webinar has been organised for February 23. The topic will be the role of district energy in low carbon buildings of the future.

Solar Now:

CEA is working with Clean Energy Canada to create a Solar Now how-to guide for single family homeowners in Metro Vancouver. The guide will highlight the benefits of solar photovoltaic panels, costs associated with installing a system and frequently asked questions. The Creekside Community Centre release event has been delayed and is now scheduled for February 9 in Vancouver. Some of the work in this project was highlighted in the CEEP QuickStart Community of Practice webinar on solar PV on December 8, which can be viewed on CEA's website.

NR Can/Canadian Forest Service – Quantification of Incremental Biomass Space Heating in Canada:

CEA was asked to submit a proposal to NR Can and the Canadian Forest Service to conduct an analysis to determine opportunities for biomass heating in the residential/commercial/and institutional sectors based on the current heating market (demand side). The proposal was accepted and will look at the current market, potential future markets and impact, as well as any economic or policy barriers. Project completion is scheduled for end of March 2017.

Federation of Canadian Municipalities' RFP for Regional Facilitators in Support of the PCP Program

CEA is submitting a proposal for the BC-Yukon region. Proposals are due by February 10.

NR Can RFP on Energy Efficiency:

CEA submitted a proposal for a 2-year program called "Clean and Cool Kootenays." This program would involve a multi sectoral approach to increase the energy efficiency of Canadian homes in this region of BC.

Implementing the BC Step Code – Training Gap Analysis, Plan & Capacity Assessment

CEA is coordinating this project on behalf of BC Hydro and the Step Code Implementation Advisory Committee Education Sub-committee. The project was conceived as part of BC Hydro's Community Energy Manager program and is funded by BC Hydro. This work will review existing and planned training programs that support the Step Code, identify gaps in training, assess opportunities for new training and provide a regional assessment of capacity in the construction industry to implement the code. This work will be valuable in informing BC local governments on the state of readiness of their construction sector. The project is active from January to March 15, 2017. Outputs will coincide with other materials released to support step code implementation.

Climate & Energy Action Awards

CEA has started planning for the 2017 awards program by initiating fundraising efforts to support program delivery.

PRESENTATIONS AND OUTREACH

Presentations and Workshops where CEA participated include:

- David and Dale have been asked to participate in the Green Communities Committee working group sessions being hosted by the province and UBCM in Q1. Dale will be part of the Low Carbon Land use group and David will be in the Green Infrastructure Group.
- Peter & David facilitated the City of Prince Rupert's CEEP QuickStart workshop on November 21 & 22.
- David and Peter presented to Smithers Town Council about CEA and BCMCLC on November 22.
- Dale and David attended the two day Pembina Thought Leadership Forum looking at accelerating pathways to net zero buildings on November 28 & 29.
- Peter & Pat presented on a CEEP QuickStart webinar on solar PV to about 50 attendees on December 8.
- Peter & Megan presented at builders' workshops in November & December. Megan presented to Invermere (20 attendees), Fernie (23 attendees), and Cranbrook (35 attendees). Peter presented to Surrey & Langley (90 attendees), and Victoria (56 attendees).
- Trish (and David remotely) presented the RDCK Area D Green Energy Scan to the Kaslo Economic Development Commission on December 12.
- Dale presented on a BC Municipal Climate Leadership Council webinar on the Pan-Canadian Framework on Clean Growth and Climate Change and what it means for local governments, to about 20 attendees, on January 18.
- Pat presented at the UBC Sustainability Scholars student information event at UBC on January 19.
- Trish attended the RDCK board meeting on January 19 to support their decision to support a funding application to NR Can for a 2-year program: "Clean and Cool Kootenays", a residential energy efficiency and retrofit program. This is a multi sectoral approach to increase the energy efficiency of Canadian homes.
- Trish responded to the Canadian Institute of Planners call for papers to present "Collaborative Community and Corporate Energy Planning - Building Resiliency and Building Capacity" at the Calgary National Conference "Building Resilience" in June 2017.

INSIDE CEA

Connect with us online! CEA has made the plunge into social media and we are looking forward to connecting with you on Twitter, Facebook, and LinkedIn and re-enforcing your work on climate action to our networks. Feel free to give us a follow and ask your Communications team to do the same.

Here are the links: [Facebook](#) | [Twitter](#) | [LinkedIn](#)

5. CEA Membership Value Proposition

- A. That the CEA Members discuss the value of CEA membership for new members
- Most important for my engagement in CEA
 - Most important for me to communicate / secure budget
 - What can CEA do to clarify / enhance value of membership

CEA Membership Value Proposition Discussion

***Mission:** To support local governments and communities in accelerating climate action and energy security in their own operations and across their communities*

CEA Value Proposition Building Blocks

Radar	Network	Brand	Discounts	\$ Leverage / Delivery
<ul style="list-style-type: none"> • CEA provides a line of sight on new developments and emerging opportunities / challenges • Get up to speed fast on what's happening across BC 	<ul style="list-style-type: none"> • CEA is a permanent collaboration table to support local governments • CEA provides the opportunity to deepen relationships with key actors 	<ul style="list-style-type: none"> • CEA promotes members brands on all 30+ presentations and on our website – being seen to be a leader 	<ul style="list-style-type: none"> • CEA provides members with discounts on CEA workshops, conferences, education, and advisory services 	<ul style="list-style-type: none"> • CEA has brought grants into all regions of BC and served most Metro LG's with grants. • CEA can multiply utility or LG investments
Influence	Research	Right Thing	Alignment	OTHER??
<ul style="list-style-type: none"> • Being part of CEA increases members influence of CEA direction, research, and activities 	<ul style="list-style-type: none"> • CEA regularly publishes its research including the recently updated funding guide and topic-specific research for local governments 	<ul style="list-style-type: none"> • Being part of CEA is just the right thing to do, by being part of CEA, members are contributing to communities across BC meeting their goals 	<ul style="list-style-type: none"> • CEA activities are aligned with the priorities of our organization 	<ul style="list-style-type: none"> • Fill in the blanks

6. Roundtable Update

- A. Discussion: What 1-2 things should others know about what your organization is doing on climate and energy AND/OR what is the most exciting thing you've seen in the last 3 months for communities and climate?

7. Presentation: Fueling Change EV Project

8. Timing of Next Meeting

- A. Discussion – early-mid May for 2017 Q2 meeting

9. Adjournment

- A. That the CEA Members adjourn this meeting
- Moved and Seconded?
 - Carried/ Unanimous/Defeated

May 25, 2017 from 10:30 am – 12:30 pm

Spacekraft: 201-4501 Kingsway, Burnaby

Dial-in # 778-786-8222; Conference Code 1780347

Access to agenda & presentation: <https://global.gotomeeting.com/join/600237957>

Meeting Chair: Darrell Mussatto, Chair of CEA or Susan Haid, Vice Chair

AGENDA

1. Confirm Quorum (10:35)

- A. That the CEA Chair confirm that a quorum of members has been reached to enable the meeting to proceed (*decision, page 2*)

2. Adoption of Agenda (10:37)

- A. That the CEA Members adopt the agenda for this meeting as noted on this page (*decision, page 3*)

3. Adoption of the Minutes (10:38)

- A. That the CEA Members adopt the minutes from the last member meeting (February 7, 2017) (*decision, page 3*)

4. Treasurer's Report – 2016 Financial Statements & Annual Report (10:40)

- A. That the CEA Members receive the Treasurer's report for information (*discussion, page 9; see attached annual report*)

5. Election of 2017 Board of Directors (10:43)

- A. Call for those who stand for election to the Board and for CEA Members to adopt the 2017 Board of Directors (*decision, page 9*)

6. CEA Bylaws & Constitution for new Societies Act (10:47)

- A. That, by special resolution, CEA Members formally approve the recommended updates to CEA's Constitution and Bylaws that were discussed at the December 2016 board meeting to comply with 2016 Societies Act (*decision, page 9*).

7. Executive Director's Report (10:50)

- A. Dale provides a summary of CEA activities since the last meeting (*info, page 12*)

8. Climate Reality Leadership Corps (10:55)

- A. Dale provides a summary of his experience at Al Gore's training program in March (*no reference material, page 17*)

9. CEA Strategic Retreat (11:05)

- A. That the CEA Members discuss a date for a strategic retreat focused on accelerating the impact of CEA and managing growth (*no reference material, page 17*)

10. Roundtable Update (11:10)

- A. What 1-2 things should others know about what your organization is doing on climate and energy AND/OR what is the most exciting thing you've seen in the last 3 months for communities and climate? (*discussion, page 17*)

11. Presentation #1: Implications of the Pan Canadian Framework on Climate Change & 2017 Federal Budget for Local Governments (11:45)

- A. Presentation by Jonathan Wilkinson, MP and Parliamentary Secretary to the Minister of Environment and Climate change (*no reference material, page 17*)

12. Presentation #2: Climate Projections for Metro Vancouver Report (12:05)

- A. Presentation by Jeff Carmichael & Lillian Zarembo of Metro Vancouver (*no reference material, page 17*)

13. Timing for Next Meeting (12:25)

- A. Discussion (*information, page 17*)

14. Adjournment (12:27)

- A. That the CEA Members adjourn this meeting (*decision, page 17*)

1. Confirm Quorum

- A. That the CEA Chair confirm that a quorum of directors has been reached to enable the meeting to proceed. Members present and regrets.

Organization	CEA	Member	In Person	Phone	Regrets
BC Transit		Geoff Huber			
Bowen Island		Maureen Nicolson			
Campbell River		Stefan Tylak			
Castlegar		John Malcolm			
Corix		Nick Capaldo			
Coquitlam		Luisa Jones			
Creative Energy		Kelsey Devine			
CVRD		Austin Tokarek			
Delta		Mike Brotherston			
FCM		Devin Causley			
FortisBC		Brent Graham			
Kimberley		Troy Pollock			
Metro Vancouver		Jason Emmert Lillian Zaremba & Jeff Carmichael (presenters)			
Nelson		Carmen Proctor			
North Cowichan		Mayor Lebefure			
North Vancouver (District)		Monica Poitras			
Province of BC		Janice Larson, Adrian Mohareb Ted Sheldon, Mary Storzer			
Prince George		Andrea Byrne			
Prince Rupert		Hans Siedemann			
Prism Engineering		Sam Thomas			
Qualicum Beach		Luke Sales			
RDKB		Goran Denkovski			
Real Estate Foundation of BC		Jack Wong			
SES Consulting		Scott Sinclair			
Smithers		Mark Allen			
Sparwood		Nelson Wight			
Surrey		Jeff Arason			
Translink		Dom Repta			
Urban Development Institute		George Koumbounis			
BC Hydro	Board	Robyn Wark			
Vancouver	Board	Susan Haid			
North Vancouver (City)	Board	Mayor Mussatto / Caroline Jackson			
Dawson Creek	Board	Cheryl Shuman			
New Westminster	Board	Patrick Johnstone / Mark Allison			
Province of BC	Board	Ben Finkelstein (ex-officio)			
Richmond	Board	Nick Heap			
UBC	Board	Orion Henderson			
UBCM	Board	Marie Crawford			

CEA	ED	Dale Littlejohn			
CEA	Staff	Megan Lohmann			
CEA	Staff	Jen Grebeldinger			
CEA	Staff	Patricia Bell			
CEA	Staff	Patricia Dehnel			
CEA	Staff	Peter Robinson			
CEA	Staff	Janice Keyes			
CEA	Staff	Maya Chorobik			
CEA	Staff	Susan Chalmers			
CEA	Staff	Lyla Samuels / Kelsey Bartha			

- Per section 6.2 of CEA's bylaws *"The directors may from time to time set the quorum necessary to conduct business, and unless so set the quorum is a majority of the directors then in office."* And the most recently noted quorum was set at 4.
- CONFIRMED (Y/N)

2. Adoption of Agenda

- That the CEA Members adopt the agenda for this meeting (agenda on page 1)
 - Moved and Seconded (Y/N)
 - Carried/Unanimous/Defeated:

3. Adoption of the Minutes

- That the CEA Board adopt the minutes from the last Member meeting (Feb. 7, 2017)
 - Moved and Seconded (Y/N)
 - Carried/Unanimous/Defeated:

February 7, 2017 from 10:30 am – 12:00 pm

Spacekraft – 201-4501 Kingsway

Dial-in 1-778-786-8222 PIN 1780347

Meeting Chair: Darrell Mussatto, CEA Chair and Mayor of City of North Vancouver

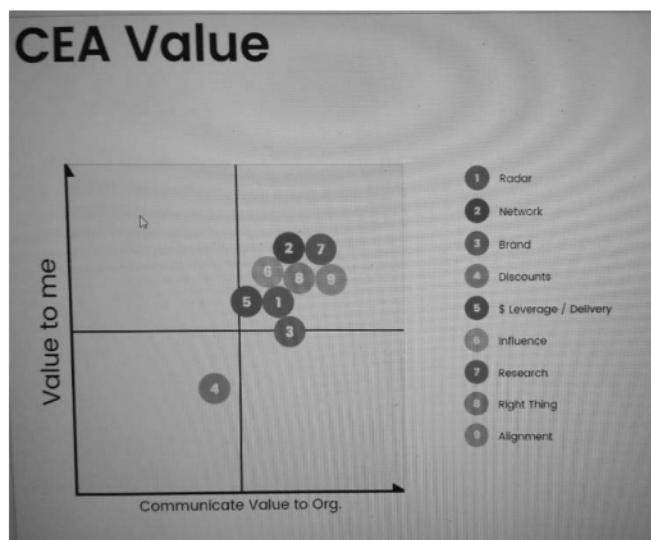
CEA 2017 Q1 MEETING MINUTES

Time	Agenda Item	Notes
10:35	1. Confirm Quorum and Call Meeting to Order	<p>Members Present in Person: Darrell Mussatto, Patrick Johnstone, Orion Henderson, and Monica Samuda Poitras</p> <p>Members Present by Phone: Brent Graham, Jason Emmert, Carmen Proctor, Andrea Byrne, Sam Thomas, Troy Paul, Robyn Wark, Susan Haid, Mark Allison, and Nicholas Heap</p> <p>Staff Present in Person: Dale Littlejohn, Susan Chalmers</p>

		<p>Staff Present by Phone: David Dubois, Trish Dehnel, Peter Robinson, Pat Bell, Megan Lohmann, Jen Grebeldinger, and Lyla Samuels</p> <p>Regrets: Members – Geoff Huber, Maureen Nicholson, Mayor Beach, John Malcolm, Nick Capaldo, Robert Hobbs, Mike Brotherston, Mayor Lefebure, Ted Sheldon, Ben Finkelstein, Janice Larson, Mary Storzer, Adrian Mohareb, Hans Siedemann, Luke Sales, Jack Wong, Scott Sinclair, Dom Repta, Mark Allen, Rory Tooke, Jeff Fisher, Caroline Jackson, Cheryl Shuman, and Marie Crawford</p>
10:45	2. Adoption of Agenda	<p>Motion to adopt agenda</p> <p>Moved by Patrick and seconded by Orion</p> <p>Motion carried</p>
10:45	3. Adoption of Previous Member Meeting Minutes	<p>Motion to adopt Dec. 6th member meeting minutes. Moved by Patrick and seconded by Orion</p> <p>Motion carried</p>
10:46	4. Executive Director's Report	<p>Dale provided an overview of CEA's plans for 2017:</p> <ul style="list-style-type: none"> • EV network implementation in the Kootenays that will increase the # of DC faster charging stations by 50% in BC • FCM PCP Regional Coordinator program, which CEA expects to win, will open up doors to provide further capacity to local governments around BC • Greater linkage to the Urban Sustainability Director's Network through hiring USDN's Canadian Coordinator on a part-time basis • Additional CEA staff delivering shared CEM services to clusters of communities • Step-code implementation support locally and regionally through builder workshops, outreach activities and other measures • Deeper training and engagement with elected officials through BCMCLC and the proposed Climate Leadership Institute <p>Following a highlight of this year's planned activities, Dale summarized CEA's activities over the past quarter, which are featured in the agenda's member update.</p> <p>Motion to receive the Executive Director's report</p> <p>Moved by Orion and seconded by Patrick</p> <p>Motion carried</p>
10:54	5. CEA Membership Value Proposition	<p>Dale led a discussion on the value of CEA membership for new and existing members, including the value for individual</p>

		<p>engagement in CEA and organizational participation. The following 9 values were identified:</p> <ol style="list-style-type: none"> 1) learning about new developments, opportunities and challenges in climate change and energy planning; 2) networking with local governments and key actors; 3) branding member logos on CEA presentations and website; 4) receiving discounts on education, workshops and conferences; 5) benefiting from access to grant related projects; 6) influencing CEA's strategic direction and activities; 7) accessing CEA research; 8) helping other communities to meet their goals; and 9) aligning of priorities between CEA and member organizations. <p>Members were asked to vote on what is most important to them individually and as an organization. A photo of the poll results is displayed below this table. Alignment, networking, research, right thing, and branding ranked the highest in terms of CEA value.</p> <p>Nicholas suggested two additional values of CEA for members including recognition through the CEA awards program and an avenue for caucusing BC municipalities on common policy issues/changes.</p> <p>Monica noted that there would definitely be differences between individual vs. organizational benefits. Investing in communication tools would be a useful value to add.</p> <p>Peter from CEA inquired whether discounts are important to members. Darrell and Monica advised that they would attend workshops regardless of whether discounts were offered. Jason reiterated this point but mentioned that it is beneficial to indicate this value to their organizations.</p>
11:15	6. Roundtable Update from Members	Refer to the summary of the roundtable discussion below this table.
11:35	7. Presentation on Accelerate Kootenays	Megan Lohmann of CEA presented on the Accelerate Kootenays project. Highlights of the presentation are provided below the member roundtable update.
11:55	8. Timing for Next Member Meeting	Susan Chalmers will schedule the next member meeting for one day during the last half of May following a poll of suitable times.
11:56	9. Adjournment	<p>Motion to adjourn meeting</p> <p>Moved by Patrick and seconded by Orion</p> <p>Motion carried</p>

Photo of Poll Results of CEA Membership Values:



Roundtable Discussion:

Q: What 1-2 things should others know about what your organization is doing on climate and energy AND/OR what is the most exciting thing you've seen in the last 3 months for communities and climate?

Orion Henderson, UBC:

The university is developing a green building plan to achieve net zero buildings by 2025. It is also refreshing its climate action plan to meet its 2020 targets. It recently analyzed its energy supply and expects to use more biomass as an energy source in the future. Orion also noted an interesting technology - large water heat pumps.

Monica Samuda Poitras, District of North Vancouver:

The District is activating its new Strategic Energy Management Plan (SEMP) to increase the energy efficiency of its corporate operations. Karen Magnussen Recreation Centre, one of the District's largest buildings, has recently undergone significant energy retrofits due to this plan. It is now using water from its facilities for a water based heat pump for the building.

Patrick Johnstone & Mark Allison, City of New Westminster:

The City of New Westminster is launching a solar farm on a city facility that will allow people to purchase energy from it (same model as Nelson). Work is proceeding on the Sapperton District Energy System. Currently, the City is negotiating the trenching of the system. Royal Columbian Hospital will be the first client to use the new hot water based DE system. Council is expected to have a discussion soon about which building standards to use (e.g. LEED or alternative) since the City needs to replace some of its building stock in the near future. Council also advised staff to provide a 10-year update on its Corporate Energy & Emission Plan soon.

Brent Graham, FortisBC:

Fortis BC is happy to be involved with CEA again. Networking opportunities and organizational alignment led to their decision to return as a member of CEA.

Troy Paul, City of Kimberley:

Troy is working with Megan at CEA on a revision to the City's Energy Efficient Building Incentive Program, which would reduce building permit fees when building beyond code. The program will integrate the new BC Step Code and provide tiered rebates for different levels. The incentive program will be taken to council shortly.

Carmen Proctor, City of Nelson:

The City's new solar PV system will be connected to the grid this spring. Besides this initiative, the City is waiting to hear whether or not the proposal to develop an Energy Diet (regional retrofit program) will be approved by NR Can.

Andrea, City of Prince George:

Presently, the City of Prince George is planning an EV infrastructure network and looking into grants to apply for to support this project. Sweater Day will take place soon, which encourages residents to turn down their thermostats and wear sweaters to save energy.

Sam Thomas, Prism Engineering:

The firm has been working with many municipalities on energy related projects. One example is the Island Savings Centre retrofit project in the CVRD. It involved HVAC upgrades, a heat recovery system and boiler system upgrade, among other things. More than a year of post retrofit data is now available. It has verified a 47% reduction in CO2 emissions and 4000 GJ in gas savings.

Nicholas Heap, City of Richmond:

Training and outreach for the building industry is underway to prepare for the BC Step Code (e.g. home builder air tightness training). The City is also leveraging building standards (e.g. Energy Star for New Homes) to get back added value of the home. Council has recently directed staff to look at an EV charging network for the city. An interesting fact that Nicholas recently learned is that solar energy is the cheapest form of electricity in UAE and Mexico.

Accelerate Kootenay Presentation:

CEA is delivering this project on behalf of three regional districts and the communities within them. Through their CEPs, transportation was identified as the largest contributor of emissions and expenditure of fuel. This is due to the dispersed population and distance between communities as well as the need to travel between them to access certain services. Increasing EV adoption was viewed as a reasonable opportunity, especially since cars are relied upon in the Kootenay region.

Upon reviewing the existing infrastructure in BC, a large gap in DCFC infrastructure was identified. The Kootenay region was also not previously seen as a high priority region for EV expansion generally. By adding charging stations in the Kootenays, connectivity from the Lower Mainland and Okanagan regions to the Alberta border is possible. People will be able to travel through the Kootenays, which many people are interested in.

This project is the first community driven collaborative strategy to build a clean transportation network. Local governments came together to identify a gap and leverage funding to make the project happen. Key funders for the \$1.2 million Accelerate Kootenays project include the Regional Districts of Central Kootenay, East Kootenay and Kootenay Boundary, FCM, FortisBC, Columbia Basin Trust, and the Ministry of Energy & Mines. The goal is for all stations to be installed by October 2018.

The EV charging network will include about 10 DCFC stations and 40 L2 stations. The strategic siting of stations across the network has been planned using a model developed at BCIT. The model took into account the use of a Nissan Leaf with 2 people driving in temperatures down to -10C over various terrain in southeastern BC. The location of stations considers local priorities such as suitable power supplies, publicly owned land, walking distance to amenities, accessibility, and high pedestrian and vehicle traffic.

4. Treasurer's Report - 2016 Financial Statements & Annual Report

- A. That the Board receive the Treasurer's report for information (see attached annual report)

5. Election of 2017 Board of Directors

- A. Call for those who stand for election to the board and for CEA Members to adopt the 2017 Board of Directors
 - Moved and Seconded (Y/N)
 - Carried/Unanimous/Defeated:

6. CEA Bylaws & Constitution for new Societies Act

- A. That, by special resolution, CEA Members formally approve the recommended updates to CEA's Constitution and Bylaws that were discussed at the December 2016 board meeting to comply with the 2016 Societies Act.

Summary of Agenda Item from December 6, 2016 Meeting Minutes:

The new BC Societies Act came into effect in November. Societies have 2 years to implement minor changes required by the act. To comply with it, Dale proposed that CEA remove clauses 3 and 4 from our constitution and update bylaws to create a new section at the end of the existing bylaws to include the clauses removed from the constitution. They will become 13.1 and 13.2. The constitution would solely focus on the name and purpose of the society. Financial statements would also include a note regarding staff paid over \$75,000 (Dale).

Motion to approve the above changes in principle with formal approval at the next AGM.

Moved by Patrick and seconded by Caroline

Motion carried

Proposed Changes from December 6, 2016 Meeting Agenda: Societies Act

- A. Special Resolution: In order to comply with the new BC Societies Act, CEA removes clauses 3 and 4 from the constitution and updates bylaws to create a new section at the end of the existing bylaws to include the clauses removed from the constitution

Overview: BC Societies Act changes come into effect November 2016 and Societies have until November 2018 to implement minor changes required by the new act. The act requires that CEA:

1. Update constitution to include only name and purposes of the Society and update Bylaws to include any clauses removed from constitution.
2. Reporting: include in financial statements a note regarding staff or contractors paid over \$75,000

Compensation clause in act:

- **Society Act** *"Reporting on remuneration of employees and contractors"*
 9 (1) *In this section:*
 - **"applicable period"**, in relation to the financial statements of a society, means the period in relation to which the financial statements are prepared;
 - **"contractor"**, in relation to a society, means a person who is under a contract for services with the society.
- (2) *The information that must, under section 36 (1) [reporting on remuneration of directors, employees and contractors] of the Act, be provided in a note in the financial statements of a society in respect of the remuneration paid by the society to all the persons who are employees or contractors referred to in section 36 (1) (b) (i) or (ii) of the Act, as applicable, whose remuneration, during the applicable period, was at least \$75 000, is either of the following:*
a list of those persons, which list
- ♦ *must include, in the case of employees, each employee's position or title and, in the case of contractors, the nature of the contractual services provided by each contractor,*
 - ♦ *must include the amount of remuneration paid during the applicable period to each of those persons, and*
 - ♦ *may include, but is not required to include, the persons' names;*
- the total number of those persons and the total amount of remuneration paid during the applicable period to those persons."*

Proposed Changes:

CONSTITUTION of Community Energy Association

- 1) The name of the Society is "Community Energy Association".
- 2) The purposes of the Society are:
 - a. to advise, educate and work closely with federal governments, provincial governments, municipal governments, utilities, planners and developers to promote and implement community energy planning (CEP) in a non-partisan manner.
 - b. to benefit the community by helping all stakeholders to work cohesively toward the goal of minimizing community energy requirements through the use of CEP tools. CEP is an analysis of energy supply and demand in regional, urban, and neighbourhood land use and transportation planning, site planning, building design, infrastructure design, and alternative energy planning. CEP encompasses:
 - the conservation of energy resources;
 - improvement of community energy and transportation infrastructure efficiency, resulting in such benefits as reduced traffic congestion, greenhouse gas emission and public expenditure on infrastructure and operating costs;
 - conservation of available green spaces; and
 - the collaboration of energy users, providers and policy makers toward more sustainable patterns of energy supply and demand.
 - c. to provide educational seminars, conferences, forums, and workshops on integrating CEP into local planning processes;
 - d. to build capacity for technical and policy support congruent with the objectives of CEP;
 - e. to undertake research on CEP;

- f. to publish information on case studies and technical advances in CEP through reports, newsletters and a website;
 - g. to engage in occasional fundraising for the promotion and implementation of CEP in British Columbia communities;
 - h. to support members in endeavours that are congruent with the goals of this society; and
 - i. to operate exclusively for charitable purposes within Canada.
- ~~3) The Society shall be carried on without purposes of gain for its members or directors and any profits or other accretion to the Society shall be used for promoting its purposes. This clause is unalterable.~~
- ~~4) Upon wind-up or dissolution of the Society, the assets remaining after the payment of all costs, charges and expenses properly incurred in the winding-up, including the remuneration of a liquidator of any arrears of salaries or wages owing to employees of the Society, and of any other debts of the Society, will be distributed to other charities registered under the Income Tax Act (Canada) whose objectives support the purposes of the society. The provisions of this clause are unalterable.~~

NEW SECTION TO ADD TO BYLAWS

PART 13 – CLAUSES FROM CONSTITUTION

The Society shall be carried on without purposes of gain for its members or directors and any profits or other accretion to the Society shall be used for promoting its purposes. This clause was previously unalterable.

Upon wind-up or dissolution of the Society, the assets remaining after the payment of all costs, charges and expenses properly incurred in the winding-up, including the remuneration of a liquidator of any arrears of salaries or wages owing to employees of the Society, and of any other debts of the Society, will be distributed to other charities registered under the Income Tax Act (Canada) whose objectives support the purposes of the society. The provisions of this clause were previously unalterable.

7. Executive Director's Report

A. That CEA Members receive Dale's summary of CEA activities since the last meeting:

Executive Director's Report

The second quarter of 2017 was very busy for CEA.

CEA said goodbye to David Dubois who left for Fink Machine to do business development for biomass district heating systems. CEA has finalized recruiting to fill the gap left by David and to set up CEA to succeed on its work this year and going forward.

CEA co-delivered a workshop for INAC and this may lead to further projects. CEA was awarded the contract to be the Regional Coordinator for FCM'S PCP program, which means we have a modest amount of funding to help local governments progress through milestones and implement actions.

CEA turned on the first level-3 charging station in the Kootenays at a media event. This project will set a prototype for electric transportation in rural North America.

CEA was also direct-awarded two FortisBC funded contracts through local governments. In Kelowna, we are re-booting their CEEP and in RDCK we are implementing the CEEPs we developed across RDCK communities.

Strategy Update:

Strategic Plan Theme	CEA Progress
Support elected officials	BCMCLC – evolved member levels, planning Climate Leadership Institute, issued primer to all provincial candidates, early stage planning to adapt BCIT Certificate in Community Energy Management for elected officials.
Support local government staff	BC Hydro Community of Practice - ongoing
Engage public	Limited – will conduct public outreach for Accelerate Kootenays, increased CEA social media presence
Research and resource development including financial analysis	Limited – Funding Guides for BC and AB, Inventory Guide for YT, NRCAN National Biomass Study
Expansion to YT and AB	FCM PCP Regional Coordinator for BC & YT, working with southern AB local governments on EV strategy

Evolution in local government climate action landscape:

- FCM MCIP including regional coordinators
- FortisBC re-engagement
- BC Hydro 'efficient electrification'
- Provincial election
- Federal infrastructure money and framework on climate action

Community Energy Association | 2017 Q2 Update

EDUCATION

Certificate in Community Energy Management:

CEA is in the process of trademarking the CCEM designation and setting up a LinkedIn group to support networking. The first two courses of 2017, Green Energy and Local Economic Development & Green Energy Finance and Governance are now completed. A third course is underway – Reducing Energy Use in New & Existing Buildings. Registration is open for the following summer course:

Low Carbon Transportation (June 7 – July 7)

The complete on-line professional development certificate program includes guidance on district energy and heat systems, planning for electric vehicle charging infrastructure, energy and emissions planning for small communities, investment in and governance of green energy systems, green energy and local economic development, community energy dieting, and more. For further information, visit our [website](#). Delivery of these courses will begin again in September, starting with the introductory course.

CEA is currently developing a process for practicing Community Energy Managers to qualify for certification.

PROJECTS

RDEK Community Energy Manager (CEM4):

The key areas of the current work plan include the development of an Energy Step Code policy for East Kootenay local governments, enhancing training and capacity building across the region around energy efficient new and existing homes, implementing the 'Accelerate Kootenay' electric vehicle initiative, and supporting organic waste diversion.

Funding has been secured from different levels of government, utilities and other partners for the EV initiative, which will install 40 L2 stations and 13 DC fast charging stations in communities along Highway 3 and 95 by the end of 2018. Site assessments for charging stations in both the east and west Kootenay region began in February and the first DC fast charging station was installed in Cranbrook in early April.

Work continues on developing policy and support materials for the new Energy Step Code. A study evaluating BC's building sector's capacity to implement the code and a draft capacity assessment tool for BC local governments have been completed. The Minister Responsible for Housing has approved the Step Code. Implementation activities will continue after the BC election.

A new component of the CEM work plan, which is funded separately by BC Hydro, will be the delivery of an enhanced Energy Conservation Assistance Program (ECAP) to Ktunaxa Nation band communities in the East Kootenay. This program will seek to address training and capacity gaps, identify the challenges and barriers to energy efficiency, and then deliver a program that will lead to energy efficiency and comfortable homes.

Alberta EV Network Strategy:

CEA was engaged by the City of Calgary, Calgary Regional Partnership, Alberta South West Regional Economic Development Alliance, and South Grow Regional Initiative to develop an electric vehicle network strategy that would expand off of the Accelerate Kootenays network, connecting BC and 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.

BC Hydro CEEP QuickStart:

CEA continues to help small and mid-sized communities in the BC Hydro area with community and energy emissions planning and implementation including:

- Additional Community Energy & Emissions Plans (CEEPs)
- Support with implementing innovative planning and policy measures on energy efficiency in buildings;
- Learning opportunities for local government staff and a peer-to-peer staff learning network through the Community of Practice; and
- Being the local government portal for access to PowerSmart energy efficiency program materials.

In the last quarter, CEA:

- Conducted a webinar on carbon funds in late February;
- Provided an engaged CEEP for the District of Kitimat in early May;
- Updated the CEEP Quickstart Guide to incorporate the new Energy Step Code and other updates from the provincial and federal governments;
- Started work on delivering a CEEP Quickstart program for First Nations beginning with McLeod Lake Indian Band;
- Developed and distributed a survey that assesses the readiness of BC local governments for implementing the BC Energy Step Code, for which BC Housing is doing the analysis.

Carcross and Teslin Community Energy & Emissions Inventory (Yukon):

CEA has started work on creating energy and emissions inventories for the Yukon communities of Carcross and Teslin. Detailed community electricity consumption information as well as some First Nations government and Yukon government information has been obtained so far. Work is ongoing.

Kelowna Community Climate Action Plan Update:

The City of Kelowna is currently updating its CCAP and has contracted CEA to assist with the refresh of the plan. To date, CEA has conducted interviews with various city departments and reviewed the city's emission inventories.

BC Municipal Climate Leadership Council:

BCMCLC hosted a webinar on LED streetlights and solar energy in late February. It also developed a short primer that was distributed to provincial electoral candidates at the end of March. The document explained the relationship between local governments and both provincial and federal governments as it relates to climate action. Work continues on securing funding for the Climate Leadership Institute proposed for fall 2017.

RDKB Ongoing Corporate/Community Energy Management Support

CEA is providing consulting services to RDKB in 2017 to assist with CARIP reporting and ensuring offsetting projects are reported accurately. This includes support and research for RDKB organics diversion local reduction project credits and accounting for the 2016 CARIP report. On a related matter, RDKB has been active in siting of EV charging stations in the district and attending the project launch of Accelerate Kootenays.

QUEST Solutions Tables:

The final Solution Table was held in mid-March in Burnaby with a satellite location in Nelson. It focused on developing specific protocols that local governments can use to target retrofits of residential buildings.

Builders' Workshops:

CEA organized Energy Star for New Homes builder workshops for Prince George (Feb 16), Kamloops (Feb 28), Chilliwack (March 3), BCIT (March 31) and Campbell River (April 25) this quarter featuring over 200 participants. A side project arose in Central Kootenay & Kootenay Boundary (see below). The workshops involved collaboration with a wide number of partners including BC Hydro, FortisBC, the Province of BC, BC Housing, NR Can, the Real Estate Foundation of BC, local government partners, CHBA BC, and local CHBA chapters.

Builders' Workshops Central Kootenay & Kootenay Boundary:

Three West Kootenay/Boundary Energy Star for New Homes builders' workshops were also held in March and were attended by 77 people. Each workshop included a blower-door test demonstration. A final report was completed for the funding partners.

District Energy Community of Practice:

CEA conducted a series of interviews with some of the major players in the district energy market to determine the viability of developing a community of practise for district energy system operators. A sample demonstration webinar took place in late February. It focused on the role of district energy in low carbon buildings of the future.

Solar Now:

CEA is finalizing a Solar Now how-to guide for single family homeowners in Metro Vancouver, in partnership with Clean Energy Canada. The guide highlights the benefits of solar photovoltaic panels, costs associated with installing a system and frequently asked questions.

NR Can/Canadian Forest Service – Quantification of Incremental Biomass Space Heating in Canada:

CEA submitted a proposal to NR Can and the Canadian Forest Service to determine opportunities for biomass heating in the residential/commercial/and institutional sectors based on the current heating market (demand side). The proposal was accepted. The project investigated the current market, potential future markets and impact, as well as any economic or policy barriers. This project is finishing up this month.

FCM's PCP Program Regional Facilitator:

CEA was awarded the contract to be the Regional Facilitator for FCM's Partners in Climate Protection Program for the BC and Yukon Region. A workshop with all of the Regional Facilitators at the end of April kicked off this 4-year project.

Climate & Energy Action Awards

CEA is launching the 2017 awards program with the release of the invitation to apply in early May. CEA has confirmed that 2017 award winners and honourable mentions will be profiled in the December 2017 issue of Municipal World magazine.

RDCK-Senior Energy Specialist

A 1-year contract was awarded to CEA beginning May 1 to provide Community Energy Management support to the Regional District of Central Kootenay. The contract funder is Fortis BC. Goals of the project are to identify and implement low carbon energy initiatives; educate and promote Fortis BC's low carbon and energy efficiency / conservation solutions; and promote advice on potential changes to the bylaws or policies for the RDCK and 9 member municipalities. Initial work and project set up is underway. Site tours will take place throughout the region in May.

PRESENTATIONS AND OUTREACH

- David and Dale participated in the Green Communities Committee working group sessions being hosted by the Province of BC and UBCM. Dale joined the Low Carbon Land Use group, while David participated in the Green Infrastructure Group.
- Trish was guest lecturer for an Integrated Environmental Planning course at Selkirk College on March 22.
- Megan, Dale, Trish and Jen attended the Accelerate Kootenay launch ceremony in Cranbrook on April 6.
- Trish presented on Community Energy Management to the Community Forum Creating the New Energy Economy in Nelson on April 6.
- Trish was interviewed by Kootenay Co-op Radio on April 18 regarding what the provincial government can do to help local governments address climate change. The theme of the episode was climate change, Earth Day and the BC provincial election. The podcast is found [here](#).
- Megan and Trish presented on Accelerate Kootenay and the Energy Step Code at the AKBLG Convention in Rossland on April 27.
- Dale participated in the Eco-Asset Management Panel at the NCLGA Convention in Terrace on May 4.
- Dale delivered a webinar for the Canada Climate Reality Network on communities and climate action
- Peter presented on the BC Energy Step Code at the 3 builders' workshops in the Central Kootenay / Kootenay Boundary region in March as well as the Campbell River builders' workshop on April 25.
- Peter was interviewed by a local television station in Prince George regarding the builders' workshop on February 16. The segment can be viewed [here](#).

INSIDE CEA

David Dubois' final day with CEA was April 7. He accepted a position in the private sector to promote biomass district heating systems.

Kelsey Bartha joined CEA in March as an Accounting Assistant.

Janice Keyes joined the Community Energy Association on May 1 as a Senior Community Energy Manager. Maya Chorobik will join us in July as a Community Energy Manager.

8. Climate Reality Leadership Corps

- A. Dale provides a summary of his experience at Al Gore's training program in March.

9. CEA Strategic Retreat

- A. That the CEA Members discuss a date for a strategic retreat focused on accelerating the impact of CEA and managing growth.

10. Roundtable Update

- A. Discussion: What 1-2 things should others know about what your organization is doing on climate and energy AND/OR what is the most exciting thing you've seen in the last 3 months for communities and climate?

11. Presentation #1: Implications of the Pan Canadian Framework on Clean Growth & Climate Change plus the Federal Budget for Local Governments

- A. Presentation by Jonathan Wilkinson, MP and Parliamentary Secretary to the Minister of Environment and Climate change

12. Presentation #2: Climate Projections for Metro Vancouver Report

- A. Presentation by Jeff Carmichael and Lillian Zarembo of Metro Vancouver

13. Timing of Next Meeting

- A. Discussion – early September for 2017 Q3 meeting

14. Adjournment

- A. That the CEA Members adjourn this meeting
 - Moved and Seconded?
 - Carried/ Unanimous/Defeated

September 12, 2017 from 3:00-4:30 pm

The AMP: Mezzanine Level, 425 Carrall St., Vancouver

Dial-in 778-786-8222 Conference Code 1780347

Go to Meeting Link for Agenda & Presentation: <https://global.gotomeeting.com/join/925223181>

Meeting Chair: Darrell Mussatto, Chair of CEA

AGENDA

1. Confirm Quorum (3:05)

- A. That the CEA Chair confirm that a quorum of members has been reached to enable the meeting to proceed (*decision, page 2*)

2. Adoption of Agenda (3:10)

- A. That the CEA Members adopt the agenda for this meeting as noted on this page (*decision, page 3*)

3. Adoption of the Minutes (3:11)

- A. That the CEA Members adopt the minutes from the last member meeting/AGM (May 25, 2017) (*decision, page 3*)

4. Executive Director's Report (3:15)

- A. Dale provides a summary of CEA activities since the last meeting (*information, page 10*)

5. 2017 CEA Strategic Retreat Recap (3:22)

- A. Dale provides a summary of the retreat and next steps (*information, page 15; see attached summary report*)

6. Roundtable Update (3:35)

- A. What 1-2 things should others know about what your organization is doing on climate and energy AND/OR what is the most exciting thing you've seen in the last 3 months for communities and climate? (*discussion, page 16*)

7. Presentation: Province of BC Mandate Letters to Cabinet Ministers (4:10)

- A. Presentation by Ben Finkelstein of the Climate Action Secretariat and a representative of Municipal Affairs & Housing on the climate and energy related priorities of provincial Cabinet Ministers in Premier Horgan's mandate letters (refer to Province of BC website for [mandate letters](#), *page 16*)

8. Timing for Next Meeting (4:28)

- A. Discussion (*information, page 16*)

9. Adjournment (4:30)

- A. That the CEA Members adjourn this meeting (*decision, page 16*)

CEA Q3 Member Meeting

1. Confirm Quorum

- A. That the CEA Chair confirm that a quorum of directors has been reached to enable the meeting to proceed. Members present and regrets.

Organization	CEA	Member	In Person	Phone	Regrets
BC Transit		Geoff Huber			
Bowen Island		Maureen Nicolson			
Campbell River		Stefan Tylak			
Castlegar		John Malcolm			
Corix		Nick Capaldo			
Coquitlam		Luisa Jones			
CVRD		Austin Tokarek			
Delta		Mike Brotherston			
Fortis BC		Brent Graham			
Kimberley		Troy Pollock			
Metro Vancouver		Jason Emmert			
Nelson		Carmen Proctor			
North Cowichan		Mayor Lefebure			
Province of BC		Janice Larson, Adrian Mohareb Ted Sheldon, Mary Storzer			
Prince George		Andrea Byrne / Joshua Kelly			
Prince Rupert		Hans Siedemann			
Prism Engineering		Sam Thomas / Robert Greenwald			
RDKB		Goran Denkovski			
Real Estate Foundation of BC		Jack Wong			
SES Consulting		Scott Sinclair			
Smithers		Mark Allen			
Sparwood		Nelson Wight			
Surrey		Jeff Arason / Rory Tooke			
Urban Development Institute		Jeff Fisher			
BC Hydro	Board	Robyn Wark			
Vancouver	Board	Susan Haid			
North Vancouver (City)	Board	Mayor Mussatto / Caroline Jackson			
North Vancouver (District)	Board	Sarah Dal Santo			
Dawson Creek	Board	Cheryl Shuman			
New Westminster	Board	Patrick Johnstone / Mark Allison			
Province of BC	Board	Ben Finkelstein (ex-officio)			
Richmond	Board	Nicholas Heap			
UBC	Board	Orion Henderson			
UBCM	Board	Marie Crawford			
CEA	ED	Dale Littlejohn			
CEA	Staff	Megan Lohmann			
CEA	Staff	Jen Grebeldinger			
CEA	Staff	Patricia Bell			
CEA	Staff	Patricia Dehnel			
CEA	Staff	Peter Robinson			

CEA	Staff	Janice Keyes			
CEA	Staff	Maya Chorobik			
CEA	Staff	Susan Chalmers			
CEA	Staff	Lyla Samuels / Kelsey Bartha			

- Per section 6.2 of CEA's bylaws *"The directors may from time to time set the quorum necessary to conduct business, and unless so set the quorum is a majority of the directors then in office."* And the most recently noted quorum was set at 4.
- CONFIRMED (Y/N)

2. Adoption of Agenda

- A. That the CEA Members adopt the agenda for this meeting (agenda on page 1)
- Moved and Seconded (Y/N)
 - Carried/Unanimous/Defeated:

3. Adoption of the Minutes

- A. That the CEA Board adopt the minutes from the last member meeting/AGM (May 25, 2017)
- Moved and Seconded (Y/N)
 - Carried/Unanimous/Defeated:

May 25, 2017 from 10:30 am – 12:00 pm

Spacekraft – 201-4501 Kingsway

Dial-in 1-778-786-8222 PIN 1780347

Meeting Chair: Darrell Mussatto, CEA Chair and Mayor of City of North Vancouver

CEA 2017 AGM MEETING MINUTES

Time	Agenda Item	Notes
10:35	1. Confirm Quorum and Call Meeting to Order	<p>Members Present in Person: Mayor Mussatto, Susan Haid, Caroline Jackson, Robyn Wark, Patrick Johnstone, Orion Henderson, Mike Brotherston, Brent Graham, Lillian Zarembo, Sarah DalSanto, Robert Greenwald, and Scott Sinclair</p> <p>Members Present by Phone: Stefan Tylak, Robin Goldstein, Troy Pollock, Carmen Proctor, Sam Thomas, Andrea Byrne, Joshua Kelly, Hans Siedemann, Peter Nilsen, Janice Larson, and Mary Storzer</p> <p>Staff Present in Person: Dale Littlejohn, Susan Chalmers, Pat Bell, and Janice Keyes</p> <p>Staff Present by Phone: Trish Dehnel, Peter Robinson and Lyla Samuels</p> <p>Regrets: <i>Members</i> – Geoff Huber, Maureen Nicholson, John Malcolm, Nick Capaldo, Kelsey Devine, Luisa Jones, Mayor Lefebure, Austin</p>

CEA Q3 Member Meeting

		<p>Tokarek, Ted Sheldon, Ben Finkelstein, Adrian Mohareb, Luke Sales, Goran Denkovski, Jack Wong, Dom Repta, Mark Allen, Nelson Wight, Jeff Arason, Jeff Fisher, Nicholas Heap, Marie Crawford, Mark Allison and Cheryl Shuman</p> <p><i>Staff</i> - Megan Lohmann, Jen Grebeldinger and Kelsey Bartha</p>
10:45	2. Adoption of Agenda	<p>Motion to adopt agenda</p> <p>Moved by Patrick and seconded by Susan</p> <p>Motion carried</p>
10:46	3. Adoption of Previous Member Meeting Minutes	<p>Motion to adopt Feb. 7th member meeting minutes Moved by Patrick and seconded by Susan</p> <p>Motion carried</p>
10:47	4. Treasurer's Report – Financial Statements & 2016 Annual Report	<p>On behalf of Mark, Dale provided an overview of CEA's financial position. CEA ended 2016 with over \$73,000 in net income. For the first quarter of 2017, it is on budget and is expected to break even or earn a small profit by year end. Susan Haid commented on the quality of this year's annual report.</p>
10:49	5. Election of 2017 Board of Directors	<p>Susan Haid nominated Sarah DalSanto from the District of North Vancouver to join the board. Existing board members have agreed to return.</p> <p>Motion to elect board members</p> <p>Moved by Scott and seconded by Robert</p> <p>Motion carried</p>
10:51	6. CEA Bylaws & Constitution for new Societies Act	<p>Dale reviewed the proposed changes to CEA's bylaws and constitution from the Dec. 2016 board meeting. We would remove clauses 3 and 4 from our constitution and update bylaws to create a new section at the end of the existing bylaws to include the clauses removed from the constitution. They would become 13.1 and 13.2. The constitution would solely focus on the name and purpose of the society.</p> <p>Motion to approve the recommended updates to CEA's bylaws and constitution</p> <p>Moved by Orion and seconded by Caroline</p> <p>Motion carried</p>
10:53	7. Executive Director's Report	<p>Dale advised of recent staff changes. David Dubois left CEA in early April to work for Fink Machine. Janice Keyes joined the organization on May 1 as Senior Manager, Community Energy Engagement. On July 1, Maya Chorobik will join us as a Community Energy Manager. Trish Dehnel began her shared CEA/RDCK contract as a Strategic Energy Specialist on May 1. This is the first Fortis BC funded SES position.</p> <p>Other new projects that began this past quarter include rebooting Kelowna's CEEP and being awarded the contract for FCM's PCP Regional Coordinator for BC/Yukon. CEA will help local governments progress through milestones and implement actions.</p>

CEA Q3 Member Meeting

		Dale also briefly provided a progress update on CEA's strategic plan (see agenda for further info). Based on the results of the BC election, the most positive scenario seems to be coming true. The Green Party currently has strong influence in forming a government with either the NDP or Liberals. Mayor Mussatto suggested that we take advantage of either outcome.
11:00	8. Climate Reality Leadership Corp Training	Dale gave a brief summary of Al Gore's presentation. Hotter temperatures have been seen more frequently in recent years. More linkages can be made to extreme weather events. Coal use is declining, while the solar energy market is increasing, especially in Chile.
11:05	9. CEA Strategic Retreat	Dale, Darrell and Susan summarized the purpose of this retreat. We want to review where we left off with the previous strategic plan and potentially refresh it. In addition, we want to determine how we can be most helpful to communities and accelerate the impact of CEA over the next few years. The half day retreat will take place in early July to feed into our presence at the UBCM convention. The 2015 strategic plan will be forwarded to members beforehand per Susan Haid's suggestion. Dale invited volunteers to review the agenda in advance. Brent Graham and Robert Greenwald agreed to join an Advisory Committee. Other members are encouraged to join.
11:15	10. Roundtable Update from Members	Refer to the summary of the roundtable discussion below this table.
11:47	11. Presentation #1	Jonathan Wilkinson, MP and Parliamentary Secretary to the Minister of Environment and Climate Change, discussed the Pan Canadian Framework on Clean Growth & Climate Change. Key points from his presentation and a summary of the Q&A period with members are provided following the roundtable summary.
12:17	12. Presentation #2	Lillian Zaremba of Metro Vancouver presented on the Climate Projections for Metro Vancouver report. The report is available here . Some highlights are summarized below MP Wilkinson's presentation.
12:37	13. Timing for Next Member Meeting	The next member meeting will be scheduled in early September (details to follow).
12:38	14. Adjournment	Motion to adjourn meeting Moved by Patrick and seconded by Orion Motion carried

Roundtable Update:

Q: What 1-2 things should others know about what your organization is doing on climate and energy in the last 3 months?

Caroline Jackson, City of North Vancouver:

The city is preparing for the Energy Step Code. A project is also underway to use waste heat for energy use from the Lions Gate Hospital rebuild. Caroline advised that NR Can recently launched Generation Energy. It is encouraging people to provide submissions as part of the consultation process.

Robert Greenwald & Sam Thomas, Prism Engineering:

The Kootenay office is wrapping up a project with the City of Cranbrook. A heat recovery dehumidification system has been installed in its pool, whereby return air from the pool is dehumidified using a chiller, with chiller heat rejected back into the pool to offset natural gas consumption for pool heating. The project is expected to reduce GHG emissions by approximately 250 tons eCO₂/year. The Vancouver office prepared its annual PUMA benchmarking summary, which compares the electrical and fuel intensity of various municipal building types in BC communities. A building using more than the median energy use is a good candidate for energy saving opportunities. One using less is a good example of energy efficiency leadership.

Mike Brotherston, Corporation of Delta:

A sanitary sewer replacement project is presently under way that will include recovering heat for energy use. Different technologies are being investigated to best capture the heat.

Brent Graham, Fortis BC:

The first Strategic Energy Specialist position has been created. Trish Dehnel of CEA will assist the Regional District of Central Kootenay on initiatives related to climate action, energy efficiency and renewable energy. Similar positions will likely be developed for Victoria, Surrey and New Westminster shortly. Fortis BC is also working on enhancing its work on demand side management.

Patrick Johnstone, City of New Westminster:

Work is proceeding on the Sapperton District Energy System. Sewer heat will be used for this new system. While Royal Columbian Hospital will be the initial client, the city plans to align with other high density developments near Sapperton sky train station. The city is also planning to replace the Canada Games Pool in next few years. The new facility will share energy with other nearby buildings.

Scott Sinclair, SES Consulting:

SES recently completed a project at Karen Magnussen arena in the District of North Vancouver. A tour of the facility will be set up for this fall to show how the recreation centre was transformed to become more energy efficient. Scott also advised that Energy Efficiency Alberta has new incentive programs for lighting and solar.

Orion Henderson, UBC:

UBC is currently aligning its Green Building Program with the new Energy Step Code. It is looking into how low carbon systems align with some of the steps. Furthermore, the university is completing a biomass availability study. There appears to be a healthy supply of waste wood that could be used in expanding its energy facility. This will be discussed with the UBC board this fall.

Sarah DalSanto, District of North Vancouver:

The District of North Vancouver is presently working on its CEEP. It recently completed construction of the new Delbrook Community Centre, which is a LEED certified building. Sarah attended the Renewable Cities Global Learning Forum earlier this month.

Susan Haid, City of Vancouver:

The city updated its green building policy for May 1 and is aligning it with the Energy Step Code. There has been a rush of applications. Since there have been some misunderstandings related to the Energy Step Code, the city has developed a strong communication strategy to clarify points. The City of Vancouver is also trying to encourage more passive houses. The first one was approved by council a month ago. Work is also underway on zero emission vehicles with a focus on heavy and light duty trucks.

Stefan Tylak, City of Campbell River:

The city is presently evaluating the performance of many corporate buildings (energy benchmarking). It is collecting data for performance indicators for its community energy plan. Similar to other members, the city is developing a strategy for Energy Step Code implementation.

Robin Goldstein, Federation of Canadian Municipalities:

FCM recently hosted a workshop at the Renewable Cities Global Learning Forum in May. New opportunities for FCM funding are now available. Funds can go towards capital projects, staff support and other areas.

Troy Pollock, City of Kimberley:

Kimberley's energy efficiency building incentive program was updated this year to align with new Energy Step Code. Currently, there are 10 projects in this incentive program and a 90% uptake on permits to date. The city is also working on its OCP update to streamline housing and land use policies. The new plan will be taken to council by the end of this year. Lastly, the city is updating its building bylaw.

Carmen Proctor, City of Nelson:

Nelson will host an energy event next week with a focus on heat pumps. It will bring together various contractors. On June 24, it will host an event at its community solar garden. This afternoon an EV charging infrastructure launch event will take place.

Janice Larson, Province of BC (Ministry of Technology, Innovation & Citizen Services):

While there is nothing to report from the Ministry, Janice provided an update on her passive house. She has now completed many regulatory and permitting processes. Construction will begin this summer.

Mary Storzer, Province of BC (Ministry of Community, Sport & Cultural Development):

The three working groups within the Green Communities Committee have now concluded their work. MCSCD will bring the ideas generated from the sessions to the committee for review at their next meeting and possibly report out on the work at the UBCM convention in September.

Andrea Byrne & Joshua Kelly, City of Prince George:

The city is identifying new climate and energy strategies including looking at specific goals and targets. It is also finishing up the CARIP and Carbon Disclosure Project reports. Andrea recently attended the Renewable Cities Global Learning Forum including FCM's workshop. Discussion is underway regarding expanding EV infrastructure in the city. Emotive has been contacted to do an event.

Hans Siedemann, City of Prince Rupert:

Hans also attended Renewable Cities in Vancouver. The CEP passed through council at the beginning of May. Presently, the city is making progress on 3 of 5 actions outlined for the 1st year and has already completed another one. Outreach to residents (e.g. online survey) is underway for incentive programs with BC Hydro. The city has also recently applied for FCM funding for street design and transportation planning.

Robyn Wark, BC Hydro:

BC Hydro has created a self assessment tool for EV readiness in collaboration with various partners (e.g. City of Vancouver, Richmond, RDEK and Victoria). It is also determining how to best support local governments in exploring the implementation of the Energy Step Code. This includes a best practice guide, webinar series and peer network.

Peter Nilsen, City of Dawson Creek:

UBC and Northern Lights College are helping the city research carbon capture and storage plus heat reclaiming. The Climate Cool Down Training Program, organized in partnership with BCSEA, continues to be successful. In this program, high school students train middle school students about climate change to further educate them on this issue and create a climate corp.

MP Wilkinson Presentation:

Background:

The federal government believes that it's important to address climate change for various reasons, including having a strong economy and protecting the planet for our children and future generations. The Pan Canadian Framework on Clean Growth & Climate Change was developed to meet our targets from the Paris Agreement.

Pan Canadian Framework on Clean Growth & Climate Change:

Four working groups were created related to adaptation, mitigation, carbon pricing, and clean technology. They completed their work in December 2016. A key focus area is being able to better adapt to climate impacts like floods and having better science for policy making (new centre will aggregate info). There will be a lot of discussion on carbon pricing in the near future. The federal government has announced how their pricing will work if a provincial government chooses not to adopt its own pricing.

Within the framework, the following sectors were identified in reducing emissions:

- Electricity: made commitment to phase out coal power and looking at how to help provinces transition to other sources (e.g. BC exports hydro-electric power to other provinces)
- Transportation: creating higher energy efficiency standards, adopting a renewable fuel standard and expanding infrastructure (e.g. EVs and public transit)
- Buildings: developing new model building codes for new and retrofitted buildings for provinces to hopefully adopt (will be a lot of consultation) and providing incentives for retrofits
- Industry: creating regulation on methane emissions (lowest cost way to address them so not controversial) and working with businesses to make them more energy efficient
- Waste, Agriculture and Forestry – providing some municipal funding (e.g. Surrey uses organics to fuel garbage trucks)
- Leadership among federal, provincial and municipal governments – all 3 levels need to make commitments

Traditionally, we have been driven by carbon based resource development and we could have difficulty moving forward but we need to look at developing more clean tech industries. BC has about half of the clean tech sector.

Member Q&A:

Robyn, BC Hydro: How do we move the market and what is the federal role in the BC Energy Step Code role out?

Jonathan: It would be good to show best practices and encourage it to be thought about from coast to coast. The Ministry of Environment and Natural Resources Canada could both be consulted for advice.

Darrell, City of North Vancouver: Is there a way that municipalities could deal with the federal government directly vs. going through the province first?

Jonathan: In some cases, this is possible (e.g. working with CMHC for housing). In other areas, local governments do need to go through the province first. If the province sees things differently, then the federal government could engage with them.

Mary, Province of BC: Where does land use planning and smart growth fit in to the Pan Canadian Framework?

Jonathan: It is not explicitly covered. The federal government can include a lens on infrastructure spending that facilitates more sustainable communities. He thinks that it is an important piece that we should not lose sight on.

Susan, City of Vancouver: Can the federal government provide encouragement for all levels of government to collaborate on these issues?

Jonathan: This is not always possible as some areas are outside of federal government purview.

Dale, CEA: How do you ensure that dollars flowing from the federal and provincial governments are distributed to both small and large municipalities so there is not a divide?

Jonathan: Funding to provinces is informed by local priorities. There does need to be sensitivity to rural and urban Canada. He encourages communities to be vocal and chat with their MP to ensure their case is taken to parliament. It is important to develop a strategy on making their needs heard.

Metro Vancouver Presentation:

The Climate Projections for Metro Vancouver report is available on the regional district's [website](#); however, Lillian Zarembo provided some highlights in her presentation, which are listed below:

- Hotter, drier summers are expected including 3.7 C warmer by 2050s and 6 C warmer by 2080s. The number of days above 25 C are expected to be 55 in 2050s and 79 in 2080s.
- Winter temperatures are anticipated to increase. The average nighttime low temperature is expected to be +2 to +3 C vs. around 0 C now.
- Snow packs will decline with an average depth of around 125 cm on April 1 in 2050s and approximately 60 cm in 2080s.
- Precipitation in the form of rain will increase except in summer months when it will decline. 1 in 20 yr. wettest day events will result in a 50 mm increase in rain by 2050s.
- These changes will impact water supply and demand (e.g. limited supply/drought in summer), sewage and drainage (flooding when precipitation exceeds infrastructure capacity), buildings and energy systems (less heating demand in winter but more cooling demand in summer), ecosystems (more risk forest fires and pest outbreaks affecting terrestrial species while decreasing stream flows impacting aquatic species), and human health (poorer air quality in summer months).
- Action is being taken to address these impacts including:
 - developing a comprehensive water supply plan in 2017 on how to prepare

- working to separate sewage and drainage systems and designing future ones for climate impacts; Lillian is leading a study this year on storm water impacts
- creating an integrated climate change strategy for Metro Vancouver
- implementing water conservation incentives (provincial government, conservation groups and municipalities work closely together)
- discussing how to best manage some of these impacts at Utilities Committee at Metro Vancouver

4. Executive Director's Report

- A. That CEA Members receive Dale's summary of CEA activities since the last meeting:

Executive Director's Report

The third quarter of 2017 continued the momentum that CEA developed over the last 18 months.

- Internal
 - New IT support was contracted, liberating the Executive Director's time and improving IT risk management
 - CEA brought both Janice and Maya up from 80% to 100% given the volume of activity
 - CEA is releasing a job posting for another as-required contract resource in the east Kootenays to support Megan as her Hydro-funded role expands beyond the Kootenays
- Project Highlights
 - Climate Leadership Institute registration has been launched (tell your friends)
 - Certificate in Community Energy Management Y3 is open for registration (tell your friends)
 - Preparation is underway for the UBCM Convention with events on M-T-W-Th
 - Provincial engagement is underway with BCMCLC
 - Collaboration project discussions are underway with QUEST and Eco-Ouest
 - FCM MCIP grant applications are underway and other fundraising for Southern AB EV network (\$2m)
 - Fundraising and scoping is underway for deep, advanced rural retrofit program in the Kootenays
- CEA Strategy outputs
 - CEA staff are actively looking at transportation as 'the next big thing' for CEA

Community Energy Association | 2017 Q3 Update

EDUCATION

Certificate in Community Energy Management:

The spring courses/session finished the 1st week of July. The fall session begins with the *Introduction to Community Energy & Emissions Planning* course, which runs from September 13 – October 18.

CEA is currently developing a process for practicing Community Energy Managers to qualify for certification.

PROJECTS

RDEK Community Energy Manager (CEM4):

The RDEK CEM position is wrapping up the 4th year of facilitating region-wide collaborative opportunities in the areas of new and existing homes, electric vehicle charging infrastructure and organics diversion. The funding partners, BC Hydro, Columbia Basin Trust and Regional District of East Kootenay will be reviewing and adopting a work plan for years 5 and 6 over the coming weeks.

The BC Energy Step Code has been a focus recently as communities begin to adopt voluntary incentive policies to encourage performance pathway to comply with the BC Building Code (energy modeling and testing in lieu of a 'checklist' approach to compliance). So far, the District of Sparwood and City of Kimberley have adopted incentive policies to support the building industry in learning about the performance pathway.

Retrofits continue to be an area of interest for all communities in the East Kootenay. More focus will be provided to this area over the coming year. Currently, the 'Building a Legacy' project is focused on delivering training and education to the building/trades, realtor, local government and community sectors. CEA will be bringing on additional capacity in the Fernie office this fall in order to help facilitate workshops across the region.

A new component of the CEM work plan involves supporting the four Ktunaxa Nation communities in the Kootenays in developing a retrofit plan that improves energy performance of homes, while enhancing local skills and knowledge around retrofits. The first round of retrofit and home assessments will take place at Akisqnuq First Nation in October.

Accelerate Kootenays

Facilitated primarily by the East Kootenay and Central Kootenay Energy Managers, Accelerate Kootenays will be kicking into high-gear this fall with installations of fast charging and level 2 stations taking place over the next 3 months. With support from our communications and design guru, Jen, outreach and engagement has also started to ramp up with the formalization of the #ruralEV Ambassador program. This program leverages local EV owners and their experiences to promote travel by electric vehicle throughout the Kootenays.

A high profile Level 2 installation will be revealed in Cranbrook on September 23rd at the Ktunaxa Nation Government Building, where a 119 panel solar installation will be unveiled simultaneously. This is a great story connecting clean energy with transportation.

The Financial Post recently featured an article on this initiative in its newspaper. To read the article, click [here](#).

Alberta EV Network Strategy:

The Southern Alberta partners involved in the development of an electric vehicle network have been invited to submit a Federation of Canadian Municipalities application for the network. With the network design and GHG impact modeling complete, the project is almost shovel ready. Connectivity across the south central region of Alberta and southeast corner of BC will bode well for popular tourism travel routes.

BC Hydro CEEP QuickStart:

CEA continues to help small and mid-sized communities in the BC Hydro area with Community Energy & Emissions Planning & implementation including:

- Additional Community Energy & Emissions Plans (CEEPs);
- Support with implementing innovative planning and policy measures on energy efficiency in buildings, especially the Energy Step Code;
- Learning opportunities for local government staff and a peer-to-peer staff learning network through the Community of Practice; and
- Being the local government portal for access to PowerSmart energy efficiency program materials.

CEA is starting to set up a Community of Practice for smaller communities on implementing the BC Energy Step Code. The first meeting should be held in late September.

In the last quarter, CEA has been working on an energy plan for the McLeod Lake Indian Band near Prince George. While this project is in the early stages, an energy & emissions inventory for the community was created and initial consultations took place with community members in July. A CEA staff member toured buildings in the community.

Community Energy & Emissions Inventory Work for the Yukon Government:

CEA has been continuing to provide energy and emissions inventory work for the Yukon Government's Energy Solutions Centre on an ongoing basis. CEA has almost completed the inventory for Teslin and created a Business as Usual Forecast tool for that community. It has also conducted some additional work for Haines Junction (CEA previously did this inventory). The Energy Solutions Centre will likely require further inventory work in the near future.

Kelowna Community Climate Action Plan Update:

The City of Kelowna is updating its CCAP and has contracted CEA to assist with the refresh of the plan. To date, CEA has conducted multiple interviews with each city department, reviewed the city's energy and emissions inventories and included transportation emissions, modelled Business as Usual projections, and is currently finalizing a list of actions after receiving staff feedback. Stakeholder engagement was planned for September but has been delayed due to the flooding, which diverted the attention of City staff.

BC Municipal Climate Leadership Council:

In the upcoming months, CEA will be supporting BCMCLC in meetings to help inform the new government about communities and climate action. Planning is underway for the BCMCLC breakfast with provincial MLAs at the UBCM convention on September 26. The Climate Leadership Institute is planned for November 1-3 at the Hilton Vancouver Airport. Programming is being finalized and promotion has begun. At the training institute, elected officials will learn:

- 1) Ways to effectively communicate the importance of acting on climate change with internal and external stakeholders (peers, staff and the electorate);

- 2) Practices and policies to adopt to ensure that climate change is included in all decision making processes in the community; and
- 3) Knowledge on policies and programs that peers have found successful to reduce emissions and energy use.

NR Can/Canadian Forest Service Biomass Heating Study:

CEA is conducting a study to determine opportunities for biomass heating in the residential/commercial/and institutional sectors based on the current heating market (demand side). The project is investigating the current market, potential future markets and impact, as well as any economic or policy barriers.

FCM's PCP Program Regional Facilitator:

This spring, CEA was awarded the contract to act as the Regional Climate Advisor for FCM-ICLEI's *Partners for Climate Protection program (PCP)*. As advisors for BC and Yukon, our team will deliver tailored resources and one on one support to PCP members to help advance their commitments to climate action. During the initial few months, staff have conducted outreach with many communities to encourage them to sign up to the program and advance through the milestones. Webinars are planned for September to introduce additional BC and Yukon communities to the PCP program.

Congratulations to the Village of Lumby for being the first new member to sign on with CEA support and for achieving Community Milestone 3. The Village of Montrose and Village of Slocan also recently joined the program. Bowen Island, a PCP member since 2001, recently received recognition for Community Milestone 3 along with existing Corporate Milestone 2. CEA has also submitted applications for milestone advancement for the following communities: Campbell River, Burnaby, Duncan, Rossland, Langley (Township), Hudson's Hope, RDCK, and Montrose. Reviews are underway.

Climate & Energy Action Awards

CEA received 15 outstanding applicants for this year's awards program. The communities and their projects can be found on [CEA's website](#). Winners and honourable mentions will be announced at the UBCM convention in Vancouver on September 27. Once again, winners will be profiled in the December 2017 issue of *Municipal World* magazine.

Maple Ridge CEM

CEA is supporting the City of Maple Ridge with its CEM work plan that includes a variety of projects over the coming year. A key component of the portfolio is delivering a builder training program to encourage energy efficient new buildings and prepare for potential adoption of the BC Energy Step Code. The program will include classroom and on-site training opportunities at an energy efficient show home to be constructed in 2018.

RDCK-Senior Energy Specialist

This is a pilot year with funding from FortisBC. The project provides CEM support to the Regional District of Central Kootenay and its 11 rural areas and 9 member municipalities. The Q1 report of the RDCK Senior Energy Specialist 1-year contract has been submitted. The Q1 work plan concentrated on the following activities:

Task 1: Corporate Buildings and GHG Emissions reduction plan. Review and recommendations for a 2017 update to the 10 corporate GHG reduction plans.

Task 2: Policy and Enabling Actions. Region wide staff meeting scheduled for November 6 to explore a regional approach to Step Code and adoption of a region wide sustainability checklist.

Goals of the RDCK–SES project are to identify and implement low carbon energy initiatives, educate and promote Fortis BC’s low carbon and energy efficiency/conservation solutions, and promote advice on potential changes to the bylaws or policies for the RDCK and 9 member municipalities.

PRESENTATIONS AND OUTREACH

- Trish attended the PIBC conference in Prince George from May 30-June 2 and was elected to the PIBC Board of Directors for 2017-2019.
- Trish delivered Council presentations on RDCK SES, FCM PCP and/or Accelerate Kootenays over the summer to the following communities: Revelstoke, Slocan, Nelson, Creston, New Denver, Silverton, Nakusp and Warfield
- Trish and Megan conducted Level 2 west Kootenay and Highway 1 EV site assessment visits in 24 communities from June 12-15.
- Trish, Pat and Megan attended the CEM Step Code Peer Network meeting on July 18.
- Trish will attend and facilitate a session at West Kootenay Eco-Society Renewable Energy and Energy Efficiency Conference in Castlegar from September 7-9.
- Megan will attend the Canadian Rural Revitalization Foundation Annual conference in Nelson from September 20-23. Presentations include: 1) Accelerate Kootenays - Canada’s first rural EV network and 2) Collaborative Rural Community Energy Planning: The health and economic benefits of walking the talk.
- Trish will attend the Walk 21 Conference in Calgary from September 19-22. She will present on Collaborative Rural Community Energy Planning: The health and economic benefits of walking the talk.
- CEA will host a booth at the UBCM trade show September 27–28 and showcase key projects such as PCP and Accelerate Kootenays.

INSIDE CEA

Maya Chorobik joined the organization on July 4 as a Community Energy Manager.

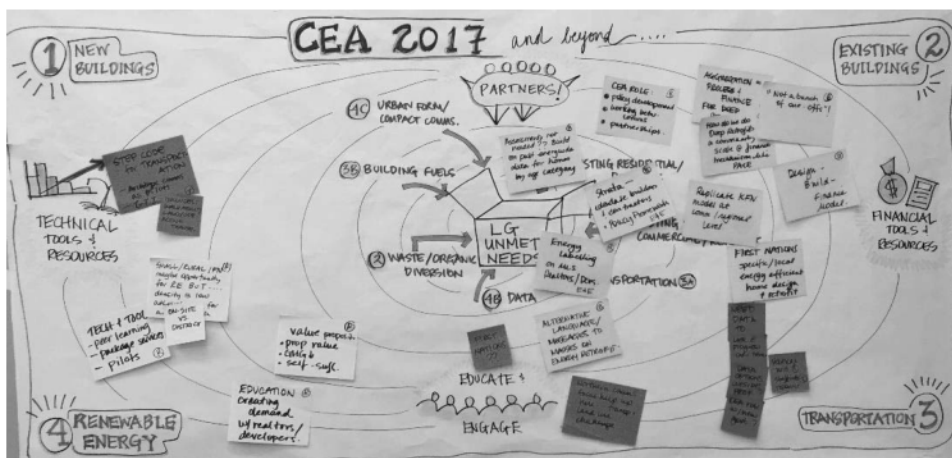
CEA held a Strategic Retreat at SFU’s Harbour Centre on July 12. It provided an opportunity to reaffirm CEA’s existing values/guiding principles and goals as well as identify strategic opportunities to pursue over the next 3-4 years to help communities with climate and energy planning.

5. 2017 CEA Strategic Retreat Recap

A. Dale provides a summary of the retreat and next steps. A detailed summary report is attached.

Main Outcomes:

- Six key CEA values/guiding principles were considered to be the most important: capacity builder, collaborator, credible, innovative, professional/pragmatic, and work on behalf of local governments
- Four long term goals were thought to be the most relevant; however, there was agreement that our goals need to be more specific and measurable. The following ones will be updated or include targeted sub-goals:
 - All BC communities are incorporating sustainable energy considerations into their planning and management.
 - To stimulate the development of more sustainable energy infrastructure and management systems in BC communities.
 - All jurisdictions in BC are actively moving toward a sustainable, resilient energy portfolio based on renewable energy and energy efficiency.
 - All relevant organizations in BC are collaborating effectively to promote and support municipalities in their move to renewable energy and energy efficiency.
- CEA's main strengths continue to be building a reputation as reliable advisors, developing relationships and partnership across sectors, and providing leadership in energy literacy.
- Key challenges pertain to branding/influence, potential opportunity overwhelm and conservative growth.



- New tactical directions were identified in three areas: buildings, transportation and renewable energy. Some “big ideas” identified by CEA members and staff that CEA intends to pursue over the next 3 years include:
 - **Deep Building Retrofits:** Deep retrofits at a community scale using a finance mechanism and/or multiple AHJs as aggregators like the Energie Sprong model were recommended. CEA staff propose using a single family home and a MURB as pilot projects that can later be scaled up using Energie Sprong. Retrofits in these projects would focus on enhancing insulation, installing heat pumps or pellet stoves, and switching to lower carbon fuel sources (e.g. away from propane & heating oil).
 - **BC Energy Step Code:** Submit FCM MCIP grant applications for some small and medium sized communities in BC to fund new municipal policy initiatives that align with the Energy Step Code. CEA could provide policy development and implementation assistance to local governments.
 - **“Step Code” for Transportation:** Create a toolkit that outlines policy tools and technologies for various transportation modes as well as highlights community examples.

- *Renewable Energy*: Packaged services particularly pre-screening analysis for renewable energy options would be offered. The pre-screening analysis could primarily be done at a workshop. This service would be featured in a brochure outlining CEA's key services for local governments.

6. Roundtable Update

- A. Discussion: What 1-2 things should others know about what your organization is doing on climate and energy AND/OR what is the most exciting thing you've seen in the last 3 months for communities and climate?

7. Presentation: Province of BC Mandate Letters to Cabinet Ministers

- A. Presentation by Ben Finkelstein of the Climate Action Secretariat and a representative of Municipal Affairs & Housing on the climate and energy related priorities of provincial Cabinet Ministers in Premier Horgan's mandate letters.

8. Timing of Next Meeting

- A. Discussion – late November for 2017 Q4 meeting

9. Adjournment

- A. That the CEA Members adjourn this meeting
 - Moved and Seconded?
 - Carried/ Unanimous/Defeated

May 24, 2016

10:00am – 11:30am

BC Hydro Office – 4th Floor meeting room 1, 333 Dunsmuir Street, Vancouver

Dial-in 1-778-786-8222 PIN 1780347

Meeting Chair: Chair, Darrell Mussatto, Mayor, CNV

AGENDA

1. Confirm Quorum (2 minutes)
 - A. That the CEA Chair confirm that a quorum of directors has been reached to enable the meeting to proceed. (*decision, page 2*)
2. Adoption of Agenda (1 minutes)
 - A. That the CEA Members adopt the agenda for this meeting as noted on this page (*decision, page 3*)
3. Adoption of the Minutes (1 minutes)
 - A. That the CEA Members adopt the minutes from the last (Feb.25 2016) Board meeting (*decision, page 4*)
4. Roundtable Update (40 minutes)
 - A. Name and organization
 - B. What has been the most interesting thing you've been involved with or seen in the last 3 months regarding communities, climate, and energy? Any communities that should be nominated for the Climate & Energy Action Awards? (*discussion*)
5. CEA Quarterly Update (3 minutes)
 - A. Dale provides a summary of CEA activities and directions for the last quarter (*discussion*)
6. ChangeMakers Installment #3 (40 minutes)
 - A. David Dubois (CEA Staff, former ED of WoodWaste to Rural Heat Initiative, and Councillor in Cache Creek) presents a point of view on how change happens in local governments followed by discussion. (*discussion*)
7. Other Business
8. Timing for next meeting (AGM) (1 minutes)
 - A. Discussion (*discussion*)
9. Adjournment (1 minute)
 - A. That the CEA Members adjourn this meeting (*decision, page 11*)

1. Confirm Quorum

A. That the CEA Chair confirm that a quorum of directors has been reached to enable the meeting to proceed.

- Members present and regrets.

Org	CEA	Member	In Person	Phone	Regrets
BC Transit		Geoff Huber (taking over from Stephen Brydon)			
Campbell River		Chris Osborne (or Amber)			
Castlegar		John Malcolm			
City of Surrey		Rory Tooke			
Corix		Nick Capaldo			
Creative Energy		Stacey Bernier			
FortisBC (prospective member)					
Metro Vancouver		Jason Emmert			
Prince George		Gina Layte Liston			
Province of BC		Janice Larson (Innovation) Adrian Mohareb (Buildings Branch) Ted Sheldon / Stephen Brydon (MEM)			
SES		Scott Sinclair			
Translink		Dom Repta			
UDI (prospective member)		Jeff Fischer			
BC Hydro	Board	Robyn Wark			
City of Vancouver	Board	Susan Haid			
CNV	Board	Caroline Jackson			
CNV	Board	Darrell Mussatto			
Dawson	Board	Cheryl Shuman			
DNV	Board	Julie Pavey			
New Westminster	Board	Mark Allison			x
Province	Board	Ben Finkelstein (ex-officio)			
Richmond	Board	Nick Heap			
UBC	Board	Orion Henderson			
UBCM	Board	Marie Crawford			
CEA	ED	Dale Littlejohn			
CEA	Staff	David Dubois			
CEA	Staff	Jane Mcrae			
CEA	Staff	Megan Lohman			
CEA	Staff	Patricia Bell			
CEA	Staff	Patricia Dehnel			
CEA	Staff	Peter Robinson			
CEA	Staff	Susan Chalmers			

- Per section 6.2 of CEA's bylaws "The directors may from time to time set the quorum necessary to conduct business, and unless so set the quorum is a majority of the directors then in office." And the most recently noted quorum was set at 4.
- CONFIRMED (Y/N)

2. Adoption of Agenda

- A. That the CEA Members adopt the agenda for this meeting (agenda on page 1)
- Moved and Seconded (Y/N)
 - Carried/Unanimous/Defeated:

3. Adoption of the Minutes

- A. That the CEA Board adopt the minutes from the last (Feb.25 2016) Board meeting
(decision, page 4)

February 25, 2014 10:30 am – noon
Richmond City Hall
Dial-in 1-778-786-8222 PIN 1780347
 Meeting Chair: Chair, Darrell Mussatto, Mayor, CNV

CEA 2016Q1 Member Meeting Agenda

	Time Est.	Title	Notes
1.	10:30	Confirm quorum and call meeting to order	ONLINE: Orion, mark, steve Brydon, susan haid, jeff fishcer UDI, Andrea PG, Pat CEA, Trish CEA, Jason Metro,
2.	10:31	Agenda review	Robyn, nick, passed
3.	10:32	Adoption of minutes of last member meeting	Marie, Cheryl, passed
4.	10:40	Roundtable of member actions related to municipalities and climate action since the last meeting.	See below
5.	11:20	Global Momentum and CEA Response	DL presented and there was some discussion
6.	11:50	CEA activities report & research highlights	Darrell passed Chair to Robyn as he had to leave Pat, Trish, Dale presented
7.	11:55	Discussion	
8.	noon	Adjourn	Moved Cheryl, seconded Nick passed Y

5.CEA Quarterly Update

Community Energy Association | 2016 Q2 Update

EDUCATION

Certificate in Community Energy Management:

CEA's first year of the Certificate in Community Energy Management (2015) finished in Q1. Five students successfully wrote the certification exam and are now authorized to use the designation "Certified Community Energy Manager." Our congratulations to:

- Teresa Chilkowich, Dehcho Community Energy Coordinator, Arctic Energy Alliance NWT
- Ryan Hennessey, Senior Energy Planner, Energy Branch, Government of Yukon
- Geoff Huber, Environmental Officer, Environmental Services, BC Transit
- Robert Lawrance, Environmental Planner, City of Nanaimo
- Kjell Liem, Saltspring Community Energy Group & Saltspring Solar Ltd.

CEA is in the process of trademarking the CCEM designation and setting up a LinkedIn group to support networking. The first course in the 2016 program (delivered via BCIT) is complete. Twelve students finished the course. The introductory course will be offered again in September, followed by the second course – Community-based Renewable Energy. The complete on-line professional development certificate program includes guidance on district energy & heat systems, planning for electric vehicle charging infrastructure, energy and emissions planning for small communities, investment in and governance of green energy systems, green energy and local economic development, community energy dieting, and more. For more information, see www.communityenergy.bc.ca/edu.

PROJECTS

RDEK Community Energy Manager (CEM3):

The CEM program is in the 3rd quarter, with great progress on a number of regional, collaborative initiatives underway.

Due to the leadership shown in the East Kootenay around the support for electric vehicle charging station strategy development, the scope of that initiative has expanded to include the Regional Districts of Central Kootenay and Kootenay Boundary. Megan is now modeling an EV charging station network that would span from the Alberta border to the Okanagan. A proposal has been invited by the Federation of Canadian municipalities, their interest being the opportunity to support a pilot that explores approaches to accelerating EV adoption in the rural context.

On the built environment, Megan has been exploring options for new home policy that would encourage/incent builders to exceed building code, achieving higher energy efficiency in new builds. Preliminary work is underway to plan for another round of the East Kootenay Energy Diet.

The RDEK organic waste diversion pilot program will be kicking off this summer. Megan is working closely with staff to bring this project to fruition.

The CEM Ideation project has produced a draft business case and draft communications strategy to assist CEMs with gaining and maintaining support for climate related projects.

BC Hydro CEEP QuickStart:

Having completed 43 Community Energy & Emissions Plans (CEEPs) through the CEEP QuickStart program (1 out of every 5 CEEP completed in all of Canada), CEA is continuing to help small and mid-sized communities in the BC Hydro area with implementation, including:

- Support with implementing innovative planning & policy measures on energy efficiency in buildings (see the following description of the NRCan policy work)
- Providing learning opportunities for local government staff and a peer-to-peer staff learning network through the Community of Practice (see the CEEP QuickStart webinars under presentations and outreach)
- Being the local government portal for access to PowerSmart energy efficiency program materials

Strategic Community Energy & Emissions Planning (SCEEP) in the West Kootenays:

SCEEPs were completed for 10 FortisBC/Kootenay communities during the project period of September 1 and March 31, 2016. This includes SCEEPs for 2 Regional Districts: RDCK and RDKB. A project final report was delivered to project funding partner Columbia Basin Trust.

The implementation phase has commenced, with funding from project partner Fortis BC. Currently Trish is organizing a Local Government tour to meet with the 16 local governments in the project area, either as a staff meeting or Council presentation to assist with SCEEP adoption, introduce common action items such as a sustainability checklist, the “Fueling the Kootenays” proposal for a coordinated approach to EV infrastructure implementation and to gauge interest in a Community Energy Manager in the West Kootenay. An initial Council presentation was made to Grand Forks on April 11. Board presentations have been made to RDCK and RDKB on April 21 on the SCEEP process and the EV strategy. Some exciting priorities came out of the session, including a desire to see a renewable energy scan completed for the region, an identified need for an inventory that identifies

how and where people move throughout the region (transit, roads and active transportation), and the need for a coordinated approach to managing the regional priorities.

Two initial pieces of implementation have been developed: guidance on the energy benefits associated with small homes and advice on the use of regionally consistent sustainability checklists promoting energy efficient buildings and incentives. A policy brief on requiring home labeling at the point of construction is being developed for the City of Nelson.

NRCAN Policy Work:

At NRCan's request, CEA prepared and submitted a proposal to help BC local governments implement planning and policy measures that will help to advance energy efficiency in new and existing buildings. CEA started work on this short but intensive project in October, and it was completed by March 31 2016. CEA directly supported 20 communities with in-depth support, and had many additional communities attend workshops and webinars. CEA supported them with policy tools including development cost charge reductions, density bonusing, home energy labelling, permit fee rebates, finding opportunities in the zoning bylaw, and sustainability checklists. CEA also supported them with education of community stakeholders. CEA had 175 paid registrants for the builders' workshops, spread over 5 locations in rural BC. In addition, over 20 people attended the realtor energy efficiency education workshop in Nelson, and a short video of that event was created and then posted to our website.

Abbotsford Corporate Carbon Neutral Action Plan for Buildings:

CEA has a minor role in a project with SES Consulting to look at the energy efficiency of City of Abbotsford buildings. CEA has identified funding sources and strategies for the City, to help them accelerate their retrofits. A draft has been submitted to SES.

City of Coquitlam CEEP Operationalization:

Coquitlam has hired CEA to help them determine the status of actions detailed in the CEEP that was conducted several years ago, build buy-in across departments for specific initiatives over the next two to three years and a process for ongoing refreshing of the tactical / operational plan for the CEEP. CEA delivered a workshop for senior managers in March and a draft report is currently under review. This project is using some of the guidance developed through the GTI project to support successful implementation. Thanks to BC Hydro for their contribution towards this project.

Getting to Implementation:

The research phase for this **national 3-year \$1.1 million project** is nearing completion. Work is underway on accelerating implementation with the three pilot communities of Campbell River,

Calgary and Waterloo. CEA attended a meeting with the City of Calgary to discuss CEEP implementation. Subsequently, the team has reviewed several key documents and provided input on presentation materials for the Mayor and Council. Since the last newsletter CEA has presented in-person to the new Community Energy Planning Steering Committee at the City of Campbell River, and drafted a funding strategy. CEA will be working on educational materials to support community implementation work going forward. SEE MORE
AT <http://gettingtoimplementation.ca/pilotcommunities/>.

NRCan Policy Efficacy Research:

CEA and Quest Canada have been conducting a review of policies that help lead to developing Community Energy Plans. The research looked at all provinces and territories and identified that BC, NWT and ON were the most successful in developing CEP's and that having energy use data was one of the most important factors. We are currently putting the final touches on the report. It will then be going for publishing later in May.

Haines Junction Community Energy & Emissions Inventory:

CEA's second piece of work in the Yukon has begun. CEA is helping the Yukon Government's Climate Change Secretariat with developing a community energy & emissions inventory for the community of Haines Junction. The Secretariat is collecting the data, while CEA is advising the Secretariat on what information is needed, checking the data, and providing other support. CEA is also developing guidance for the Secretariat so it can develop its inventories in-house in future. Following project delays, this project is now due to be completed later in 2016.

BC Mayors Climate Leadership Council:

CEA supported BCMCLC to host four peer learning events at all of the local government association AGMs except LMLGA (cancelled due to lack of interest). The session included a brief energy literacy overview followed by breakout sessions where local success and barriers were identified as well as methods that could help get buy in from others. This was followed by an additional breakout where participants could self select on topics of interest. Total registration for the 4 sessions was 110.

BMCLC with support from CEA submitted a response to the BC Climate Leadership Consultation. A follow up news release resulted in over half a dozen articles both in print and radio. We were also asked to provide information for a briefing note to at least one senior staff person.

In early May BCMCLC had a meeting to discuss a variety of topics including:

- 1) A name change to a more inclusive one is being contemplated. The BC Municipal Climate Leadership Council is currently being considered by the members.

- 2) Ways to increase membership including various membership tiers.
- 3) Future plans for UBCM including a presentation to UBCM Environmental Committee (in conjunction with CEA) and workshop/clinic at UBCM.
- 4) Potentially a 1.5-day training institute in 2017.

BCMCLC is also working on meeting with a number of senior MLA's to educate them about BCMCLC and the roles LG can play with regards to future climate plans. BCMCLC will also be participating in a half day planning session with the CRD.

Climate & Energy Action Awards: CEA has started the fundraising stage of the 2016 awards program. Funds have been requested from BC Hydro, FortisBC, and various ministries of the provincial government. UBCM offers in-kind funding each year. Awards will be presented at the Union of BC Municipalities Convention in September, 2016 in Victoria.

If you would like to volunteer to be a member of the **2016 awards nomination committee**, please advise Patricia Bell at pbell@communityenergy.bc.ca.

BC Manitoba Research: CEA has completed research into correlations in public datasets to determine if there are linkages at the community level between per-capita energy and emissions, linear km of roads, cost of local government, taxable area, and other indicators in both BC and Manitoba with funding from the Eco-Quest project of the Francophone Economic Development Organizations in western Canada. There were not strong correlations at the community level.

QUEST Solutions Tables:

CEA held solutions tables in Kelowna, Nelson and Nanaimo. The tables were well attended with 73 people attending across all three. The Province of BC and Pembina Institute provided an overview of the provincial government climate leadership and update from the energy efficiency working group. This was followed by discussions with the participants around potential submissions to the provincial government and state of climate change work in the local area. The attendees were a mix of LG staff, consultants, utilities and not for profits with some elected officials attending the Nelson session. The Nelson session also included extra discussion on adaptation. Based on the response, CEA created a template response to the provincial government that was used by at least two participants. Plans for next quarter include follow up with participants of the three Solution Tables and mid-term reporting.

Kitimat Stikine Bioenergy Project:

CEA staff continue to follow up on this project based on the funding availability from the regional district. The project would include some initial scoping work, bioenergy technology market research, technology review and selection. The project would potentially have a number of steps over a 3–6 month period with revenue at each step depending on available funding.

Kelly Lake First Nation CEEP/Energy Scan:

Megan had the opportunity to travel to Kelly Lake to attend a Nation–building workshop, and initiate the conversation around energy efficiency in new homes and retrofits for existing homes. She had the opportunity to present to the community to identify some of the BC Hydro programs that homes in that community are eligible for. There has been no update on the funding to pursue a full energy plan for the community.

School District 8: Carbon Neutral Action Report:

The Manager of Operations for Kootenay Lake School District participated in the Nelson Solutions Table, RDCK SCEEP and Creston SCEEP. As a result, CEA was approached to refresh the 2015 Carbon Neutral Action Report by adding GHG emission reductions target and action items. Trish has worked with SD8 during the month of May to deliver this small contract in time for the report deadline of May 31, 2016.

RDCK Area D Energy Scan:

CEA has submitted a proposal to RDCK Area D to complete a renewable energy scan. The total value of the project would be about \$11–14,000 and take about two months to complete. Trish presented the proposal in person at the Kaslo and Area D Economic Development commission meeting on May 16. The commission resolved to move ahead with the project and is in the process of sourcing outside funds prior to finalizing a contract with CEA.

Builders' workshops proposal:

Following CEA's successful builders' workshops in February and March, CEA has been invited by BC Hydro to submit a proposal for another series of builders' workshops in BC to help train builders in building to ENERGY STAR® for New Homes. This project would take approximately 6–12 months and generate \$65–80,000 in revenue.

PRESENTATIONS AND OUTREACH

Event	Date	Location
RDKB SCEEP	20-Jan	Trail
Calgary GTI	27-Jan	Calgary
Symposium	28-Jan	New West
BCMCLC LGLA Session	05-Feb	Richmond
Kelowna New Home	09-Feb	Kelowna
Kelowna Solutions Table	10-Feb	Kelowna
Nelson Solution Table	11-Feb	Nelson
PG New Home	16-Feb	Prince George
Dawson Creek New Home	17/18 - Feb	Dawson Creek
RDCK Mega SCEEP	19-Feb	Nelson
Naniamo Solutions Table	03-Mar	Naniamo
Campbell River Workshop	2 or 4 Mar	Campbell River
Cranbrook New Home - Tech & Policy	02-Mar	Cranbrook
Grand Forks SCEEP	08-Mar	Grand Forks
AVICC BCMCLC	10-Apr	Naniamo
SILGA BCMCLC	22-Apr	Kelowna
AKBLG BCMCLC	29-Apr	Kimberley
NCLGA BCMCLC	06-May	Dawson Creek

Presentations and Workshops that CEA participated in or attended include the following:

- **CEEP QuickStart webinars:** CEA held a webinar on April 5th on the coming Stretch code, with Pembina Institute presenting.
- **Building & building official education workshops:** Over February and March, CEA held 5 workshops for builders and building officials on building more energy efficient homes. Workshops included presentations on the utility New Home program, presentations by Murray Frank on meeting section 9.36 (the energy efficiency component) of the BC Building Code for homes, and a presentation by a Certified Energy Advisor. The workshops had 176 paid registrants.
- **Realtor energy efficiency education workshop:** In March, CEA held a realtor energy efficiency education workshop in Nelson, with Nelson EcoSave and FortisBC. The workshop had over 20 attendees. A short video of it was made and is now on the CEA website.
- **The Water, Drought and Climate Change Forum:** Megan presented at this forum in Nelson on April 23, bringing mitigation and energy into the conversation of climate impacts and adaptation in the Kootenays.
- David and Pat have been participating in the Provincial Government's **Energy Efficiency Working Group** consultation on District Energy and Pat has been participating in the Part 9 and Part 3 consultations on stretch codes.
- David has been invited to participate at the **International Bioenergy Conference** in Prince George June 15–17 where he will

present on using community energy to help address wildfire and reintroduce FIRST Heat.

- Trish presented the “**Fueling the Kootenays**” strategy to both RDCK and RDKB boards on April 21 to request support and funding for the FCM application.
- Trish provided a “**guest lecture**” on SCEEPing in the Kootenays for the CCEM course in March.



INSIDE CEA

CEA Inviting New Members: Community Energy Association invites new members to join the current 18 members. New members help expand CEA's reach, provide valuable insight and balance, and help sustain the organization financially.

New Staff: Susan Chalmers joined CEA in May as an Administrator.

9. Adjournment

- B. That the CEA Members adjourn this meeting
- Moved and Seconded?
 - Carried/ Unanimous/Defeated

From: Sheldon, Ted W EMPR:EX
Sent: April 10, 2018 4:28 PM
Cc: Beaupre, Darren GCPE:EX; Brydon, Stephen EMPR:EX
Subject: Clean Energy and Communities - April 2018 Snapshot

Clean Energy and Communities colleagues, happy April!

The following is our **April** 'Snapshot' of miscellaneous local, national and international clean energy and related activities, documents and other links that you (or a colleague → feel free to forward) might be interested in skimming. There is increasing interest and activity in the clean energy space; activity at the local government level is certainly no exception. We trust these 'snapshots' give you that sense, and provide some relevant and timely information for you and your organization. The next Snapshot will be coming out in May, followed by some down time over the Summer. Always look forward to hearing from you, so don't hesitate to reply to Ted.Sheldon@gov.bc.ca with questions, comments or advice! Until then, enjoy this time of year to the fullest.

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Renewable Energy/Sustainable Cities:

- **April 10, 2018 – C40 Financing Sustainable Cities Forum 2018**, New York City.
- **April 12, 2018, 12:30-1:30pm - Germany's energy transition and cities: Economic insights and good policy with Claudia Kemfert**, SFU Vancouver, Harbour Centre. **REGISTER** to attend, or Stream Online.
- **April 12, 2018 - Smart Communities/Smart Region**, SFU Wosk Centre for Dialogue, Vancouver.
- **April 15, 2018, 6:30pm - 2018 Festival Launch**, Telus World of Science, Vancouver (The evening includes the screening of "The Sun on Top of the House"; the story of how the Haida have taken back control of their sacred lands and become leaders in renewable energy with BC's largest community solar project. Click **HERE** to learn more details.
- **April 18, 2018 - QUEST talks: Disruption and the Smart Energy Solution**, Enmax District Energy Centre, Calgary, Alberta. The full preliminary Program is **HERE**; and to **Register**. For details concerning the activities of QUEST and the QUEST BC Caucus, go **HERE**!
- **April 18-20, 2018 - Energy Cities' Annual Conference**, Rennes, France.
- **April 19, 2018 - Smart Planning our Future Cities webinar**, hosted by the Canadian Urban Institute.
- **April 20, 2018 – DEADLINE** for applications to Natural Resources Canada's **Request for Project Applications for the Emerging Renewable Power Program**. Request your application package **HERE**.
- **April 24, 2018 – DEADLINE** for applications to Infrastructure Canada for the **Smart Cities Challenge**.
- **May 11, 2018 - Green Homes, Warm Homes: Energy Efficiency First Nations Housing** (part of Fraser Basin Council's **First Nations Home EnergySave program**), Camp Squeah, 27915 Trans-Canada Hwy, BC.
- **May 17, 2018 - DEADLINE** for submission to the **Clean Energy for Remote and Rural Communities: BioHeat, Demonstration & Deployment Program Streams** to be considered for funding in the first year (2018-19) of the program. Proposals received: **by April 12, 2018** - Applicants may request a half hour phone call to ask questions related to their submission; **by May 3, 2018**, submissions will be reviewed for completeness and applicants will be notified of missing documentation; and **after May 3, 2018** - submissions will be reviewed as is. Applications for the CERRC **Capacity Building Stream** can be found **HERE**.
- **June 6th, 2018 - Community Energy Workshop**; part of the June 6-8, 2018 **Bioeconomy Conference**, Prince George, B.C.
- **June 19-22, 2018 - ICLEI World Congress 2018**, Montreal, Canada.
- **Data/Awards/Funding/Articles:**
 - o **Three BC Communities win FCM 2018 Sustainable Communities Awards.**
 - o **The List of Funding Opportunities for Clean Energy Projects Led by First Nations and Local Governments** has been updated (March 2018 version). This document is intended to assist BC local governments, First

Nations, and community organizations find appropriate funding to support energy planning, energy efficiency, and clean energy projects. This list provides summary information about each program / funding opportunity.

- Federation of Canadian Municipalities (FCM) – Funding through Municipalities for Climate Innovation Program (MCIP) available to [help pay salaries of staff working on climate action](#).
- BC Climate Action Toolkit:
 - [Climate change and cities: Urban Climate Change Research Network's Second Assessment Report - Summary Report for City Leaders](#).
 - [Getting to a circular economy: A primer for Canadian policymakers](#).
 - [EV SmartFleets fleet procurement analysis tool](#).
- [All parking stalls at new Vancouver condos will need electric car charging capability](#).
- The 2013-2016 community-level data has been posted as part of the [BC Provincial Inventory Report](#). Scroll to the bottom of the page to find the data for each BC local government for: 1/ buildings/utilities, and 2/ solid waste.

International Sustainability/Climate Action/Clean Energy:

- **April 9-10, 2018 - The Future of Energy Global Summit**, New York.
- **April 13, 2018 - DEADLINE to apply for Affiliate events (September 10-14)** at the [Global Climate Action Summit](#), September 12–14, 2018, San Francisco, California.
- **May 14, 2018 – DEADLINE for applications for NRCan's Low Carbon Economy Fund Challenge**.
- **May 15-16, 2018 - Energy Disruptors: Unite 2018**, Calgary, Alberta.
- **May 24, 2018, 5:30-9:00pm - Women in Sustainable Energy Networking Event tickets**, BCSEA Vancouver.
- **June 6-8, 2018 - Bioeconomy Conference**, Prince George, B.C.
- **June 16-21, 2018 – Resources for Future Generations** – Premier Conference on Energy, Minerals, Water, the Earth, Vancouver Convention Centre, Vancouver, BC. Register [HERE](#).
- **June 19, 2018 - Vancouver Island Sustainable Technology Association 2018**, Nanaimo, B.C., is looking for looking for interested clean technology exhibitors & sponsors.
- **Resources/Reports/Articles/Announcements:**
 - [IEA's Global Energy & CO₂ Status Report](#).
 - [Clean Energy Investment Grows as Global CO2 Emissions Reach New Record High](#).
 - [As the world transitions to clean energy, are Canadian companies ready?](#)
 - [European Parliament Approved Carbon Trading \(ETS\) Reform, to Boost Efficiency & Renewables Investment](#).
 - [Power Prices Go Negative in Germany, a Positive for Energy Users](#).
 - [European renewables outpace coal in 2017 - "Wind, solar, and biomass accounted for more than 30% of the continent's power production last year, with Germany and the United Kingdom contributing 56% of the renewables growth between 2014 and 2017."](#)
 - [Research on SDGs \(Sustainable Development Goals\) in Canada recommends prioritization framework, roles for key actors](#).
 - [Bonn Challenge celebrates first achieved pledge](#).
 - [Shell's 'Sky Scenario' illustrates a technically possible, but challenging pathway for society to achieve the goals of the Paris Agreement](#). Relatedly:
 - [The Guardian - Hydrogen-powered transport key to climate targets, says Shell](#).
 - [Bloomberg Technology - Shell Says Saving Planet Probably Means Sucking CO2 From the Air](#).
 - Clean Energy Canada:
 - [Alberta used to 'hide' from climate conferences, now hosts them: Environment minister](#).
 - [Visa just made a huge commitment on renewable electricity](#).
 - [Microsoft signs another renewable energy deal in Asia](#).
 - [The world is embracing S.U.V.s. That's bad news for the climate](#).
 - [Genetic study of Quebec residents finds air pollution trumps ancestry](#).
 - Pacific Institute for Climate Solutions:
 - [Canada's climate action planning a mess, the north faces grave permafrost risks](#).

- [BHP to quit global coal lobby group over climate change.](#)
- World Bank: [Blockchain and emerging digital technologies for enhancing post-2020 climate markets.](#)
- Bloomberg New Energy Finance:
 - [State of Clean Energy Investment.](#)
 - [Tumbling costs for wind, solar, batteries are squeezing fossil fuels.](#)
- Clean Energy Canada:
 - [Energy Disrupted: Tracking the energy revolution 2018.](#)
 - [Carbon pricing seems obvious to economists, but for many voters it just doesn't click.](#)
 - [Clean power is shaking up the global geopolitics of energy.](#)
- Smart Prosperity Institute:
 - [Smart Prosperity Institute welcomes world-renowned Dr. Carolyn Fischer as Canada 150 Research Chair.](#)
 - [Canada's Next Edge: Why clean innovation is critical to Canada's economy and how we get it right.](#)

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Renewable energy, by sector below

Biomass/Biofuels/Bioeconomy/RNG:

- **June 6–8, 2018** – The 2018 Canadian Bioeconomy Conference & Exhibition will be held in Prince George in 2018 and entitled “[The New Bioeconomy: Adding Value to Biomass](#)”.
- **Article(s):**
 - [Solar thermal and biomass - a winning solution for district heating.](#)

Clean Energy (Zero Emission) Vehicles/Sustainable Transportation:

- **May 30-June 1, 2018** – [Movin’On: World Summit on Sustainable Mobility](#), Montreal, Quebec.
- **Rebates/Articles:**
 - Clean Energy Canada:
 - [Province \(BC\) taking applications for rebates for electric vehicle charging stations.](#)
 - [Both new Ontario ferries to be fully electric.](#)
 - [Ontario's first manufacturing facility for electric car charging stations to open in Markham.](#)
 - [Automakers shift gears on climate change.](#)
 - [Parts suppliers call for cleaner cars, splitting with their main customers: automakers.](#)
 - Bloomberg New Energy Finance:
 - [India’s Electric Vehicle Market Doubled in 2017.](#)
 - [New BMW and Daimler JV to reshape global carsharing market.](#)

Geothermal Energy:

- **June 16-21, 2018** – Resources for Future Generations conference – see anticipated sessions related to Geothermal [HERE](#).

Hydropower/Energy Storage:

- **April 18-20, 2018** – [ESA Energy Storage 29th Annual Conference & Expo](#), Boston, Massachusetts.
- **May 15-17, 2018** – [The Battery Show Europe 2018](#), Hannover, Germany.
- **Articles:**
 - [World's largest flat plate collector manufacturers in 2017.](#)

Marine Energy:

- **April 30 – May 2, 2018** Marine Energy Technology Symposium (METS) and the International Marine Renewable Energy Conference (IMREC), Washington D.C. To [register](#).
- **June 29, 2018** – **DEADLINE** to apply to FORESEA’s (Funding Ocean Energy through Strategic European Action’s) [4th call for proposals](#).
- **Articles:**

- The Ocean Energy Systems (OES) Technology Collaboration Programme of the International Energy Agency published its **2017 Annual Report** featuring an assessment of national policies, research and technology demonstration on ocean energy. The report looks at the achievements and progress made by each of the 25 OES members throughout 2017 and gives an overview of their collaborative projects within OES.
- Tethys:
 - [Oregon wave energy test center gets \\$3M boost.](#)
 - [Aquaterra delivers marine energy roadmap for Peru.](#)
 - [The State of Knowledge for Environment Effects: Driving consenting/permitting for the marine renewable energy industry.](#)

Solar Energy:

- **April 15, 6:30pm – Elements Film Festival includes** the world premiere screening of "The Sun on Top of the House" (a powerful story of how the Haida have taken back control of their sacred lands and become leaders in renewable energy with BC's largest community solar project). Clear [HERE](#) to learn more details.
- **June 20-21, 2018 – Solar Canada** (Canada's largest solar energy conference), BMO Centre, Calgary, Alberta
- **Article(s):**
 - [Solar power's greatest challenge was discovered 10 years ago. It looks like a duck.](#)
 - [Intersolar Europe: Market Trends in solar cells, European PV market, photovoltaic world market, etc.](#)
 - [Blockchain driving community solar trading overseas and at home.](#)
 - Solar Thermal World:
 - [International Solar Energy Society's recorded webinar: Solar Academy Price Reduction of Solar Thermal Systems.](#)
 - [Solar thermal and biomass - a winning solution for district heating.](#)
 - [Need to include solar in architectural education - Brazil.](#)

Waste-to-Energy/Resources/Circular Economy:

- **April 11th, 2018** – the next **National Industrial Symbiosis Program (NISP) workshop** will be held at Metro Vancouver HQ in Burnaby. See [HERE](#) for more information about NISP on the NISP Program. For a program contact, reach out to Timo Makinen through the [Lighthouse Sustainable Building Centre](#).
- **Websites/Report/Articles:**
 - [Saltworks Celebrates SaltMaker Crystallizer Installation in BC.](#)

Wind Energy:

- **April 16-18, 2018 – Wind Operations Dallas 2018**, Westin Galleria, Dallas, Texas
- **May 7 – 10, 2018 - Powering Forward - American Wind Energy Association 2018 Registration**, Chicago, Illinois.
- **June 7-8, 2018 – US Offshore Wind Conference & Exhibition**, Boston, Massachusetts
- **Articles:**
 - Tethys: [GE to deploy the world's most powerful offshore wind turbine in 2021.](#)

Complementary to Renewable Energy.....

District Energy:

- **June 11-14, 2018 - 109th IDEA Annual Conference: "Local Solutions, Global Impact**, Vancouver Convention Centre, Vancouver. In addition to the core conference for the 800 attendees anticipated, there will be multiple tours of district energy systems in the Vancouver region, including the [2016 IDEA System of the Year Award winner Alexandra District Energy System](#) in Richmond, UBC's new bio-energy centre, Creative Energy and Corix facilities.
- **Articles/Reports:**
 - NRCan's DE Status Report for March:
 - [Solar thermal and biomass - a winning solution for district heating.](#)

Energy Efficiency:

- **March 26 – April 30, 2018 – DEADLINE for applications for ENERGY STAR Challenge for commercial and institutional buildings.** Beginning in March, 2018, Natural Resources Canada will be launching an ENERGY STAR challenge for commercial and institutional buildings. Be among the first buildings in Canada to receive the ENERGY STAR certification. All approved buildings will be classified as "firsts" in Canada. Specific questions regarding ENERGY STAR certification for commercial and institutional buildings in Canada or the challenge should be directed to nrcan.energystarcertificationbuildings.nrcan@canada.ca.
- **April 24, 2018, 11:00am-12:00noon - Upcoming Webinar: Working with Thermal Cameras 101** (Introductory webinar covering basic information that your community should know if you are planning on using thermal cameras for energy efficiency project.)
- **May 16-17, 2018 - Alberta Energy Efficiency Summit**, Grey Eagle Event Centre, Calgary, Alberta.
- **May 30-31, 2018 - Energy Summit 2018: Maximize Profitability through Energy Performance**, Vaughan, Ontario.
- **June 26, 2018 –2018 International Symposium on Energy Efficiency Best Practices from Across the Globe**, National Press Club, Washington, DC.
- **November 1, 2018 - 2nd Annual Green Building Expo**, Canada's premier virtual trade show for green building.
- **Report/Articles:**
 - o The path to fuel economy is clear, even with truck sales in high gear.
 - o NRCan - Mandatory energy and water use reporting being adopted across North America.
 - o ACEEE - Buying an efficient home is about to get easier in Massachusetts.

Climate Change Adaptation:

- **April 11th – Robert Wood Johnson Foundation Funding application DEADLINE - Funding Integrative Action for Resilience - Progress through community-research partnerships.**
- **April 11-13, 2018 - 7th Annual Risk Management Conference**, Hyatt Regency, Vancouver.
- **April 16, 2018 – Understanding Risk BC**, Victoria Convention Centre, Victoria.
- **April 16, 2018, 10:15-11:45am, Webinar – Climate Adaptation Policy at the State and Local Level.**
- **April 21, 2018 – EarthX Climate Resilience Cities Symposium**, Dallas, Texas (part of the annual EarthX program, which is the largest annual environmental exhibition in the world running from April 18-22).
- **June 19-22, 2018 - ICLEI World Congress 2018**, Montreal, Canada
- **Report/Announcements/Article:**
 - o Federation of Canadian Municipalities' (FCM's) Climate Adaptation Partners Announced.
 - o Here are the places in Canada - yes, Canada - vulnerable to drought.
 - o Rising seas and climate change: Everything you need to know.
 - o Grappling with Climate Change in the Kingdom of Happiness.

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Best regards,

Ted

Ted Sheldon

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.....conserve, it's worth the energy



Cottier, Anna OHCS:EX

From: Sheldon, Ted W EMPR:EX
Sent: March 5, 2018 8:22 AM
To: Brydon, Stephen EMPR:EX; Clark, Nick EMPR:EX; Walsh, Warren EMPR:EX; Bi, William FLNR:EX; Church, Ken (NRCan/RNCan); IESVic - Bryson Robertson - West Coast Wave Initiative & 2060 Project (bryson@uvic.ca); Ed Knaggs (eknaggs@hespv.ca); Gosman, Nat EMPR:EX; Berkhout, Tom EMPR:EX; Mohareb, Adrian OHCS:EX; Maya Chorobik; Pat Bell (pbell@communityenergy.bc.ca); Porter, Kenneth ENV:EX; Broad, Amanda ENV:EX
Subject: Clean Energy and Communities - drafting March 2018 Snapshot - one or two suggestions?

Reaching out to a few of you folks for a 'top-of-mind' (or two) suggestion to share with the CE&C distribution group. Again just 'top-of-mind' idea(s) that could be a conference/webinar/course/special report/news article (but particularly if something is coming up in the next 2-3 months, and is community-focused) that you think would be of interest to those on this monthly distribution. I'll be doing up 'March' distribution **by this Wednesday**. There are a number of wonderful resources to tap into each month, so please don't take more than 5-minutes out of your day to give attention to this request. Any/all comments welcome!

Stephen – new technology(ies) and/or event and/or (B.C. or international) roll out.....

Nick – hydrogen fuel cell or electric (CEV/ZEV) and/or battery technology.....

Warren – geothermal.....

William – biomass/bioenergy/bioeconomy.....

Ken C – district energy (renewable energy focused).....

Bryson – marine energy or related.....

Ed – solar event or report of interest.....

Nat/Tom – energy efficiency-related.....

Adrian – upcoming Energy Step Code sessions.....

May/Pat – waste-to-energy.....

Ken P – climate action (incl Friday's QUEST discussion).....

Amanda – climate change adaptation.....

Ted (cell 1-250-213-8732)

Feb 'snapshot' below.....

From: Sheldon, Ted W EMPR:EX
Sent: Wednesday, February 7, 2018 11:13 AM
Cc: Beaupre, Darren GCPE:EX; Brydon, Stephen EMPR:EX
Subject: Clean Energy and Communities - Feb 2018 Snapshot

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 - [Alberta's Bio-Resource Information Management System \(BRIMS\) Goes Live](#)

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- **Executive Director job description. DEADLINE** for application, February 9th. Geothermal Resources Council, Attn: Executive Director Search, Email: grc@geothermal.org. Questions? Contact Estela Smith at (530) 758-2360 ext. 102.

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Best regards,

Ted

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4th fl, 1810 Blanshard Street | Victoria, BC

t: 778 698-7154 | c: 250 213-8732

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- **March 13, 2018: 1:30-2:30pm (PST)** – Join Renewable Cities (in person, SFU Harbour Centre; or live stream) for **New Energy and mobility futures: A conversation with Ethan Zindler, Head of Americas, BLOOMBERG New Energy Finance**. [Register HERE](#).
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 - [News from the Renewable Energy \(REN21\) Network, including Renewables Global Futures Report: great debates towards 100% renewable energy](#).
 - [Renewable Cities 'Opinion' in Vancouver Sun - Hidden solutions to affordability and climate change](#).
 - o Clean Energy Canada:
 - [Norway's wealth fund may expand emissions blacklist to more companies](#).
 - o [Sierra Club 100% renewable energy commitments in cities, counties, & states](#).
 - o [Japanese cities and regions rally behind 100 percent renewable energy](#).
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 - o [Leading beyond limits: Mayoral powers in the age of new localism](#).
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International Sustainability/Climate Action/Clean Energy:

- **March 13, 2018 - Sustainable Investment Forum Europe 2018**, Paris, France.
- **March 14, 2018 - Renewable Energy Policy Forum**, Washington, D.C.
- **March 14-16, 2018 – GLOBE Forum 2018 – The Leadership Summit for Sustainable Business**, Convention Centre, Vancouver. See Preliminary Program Update [HERE](#). Of particular interest may be the [Cities & Infrastructure](#) and [Energy & Technology](#) tracks.
- **March 19-21, 2018 - ClimateCon - The Business of Climate Forum**, Asheville, North Carolina, U.S.
- **April 4-6, 2018 - International Green Energy Expo & Conference 2018**, Daegu, Korea.
- **April 10-11, 2018 - 12th Annual BC Power Symposium**, The Sutton Place Hotel Vancouver, B.C.
- **April 17-18, 2018 - 4th Berlin Energy Transition Dialogue**, Berlin, Germany.
- **April 28, 2018 – Smart Energy Event: The New Energy Consumer**, Halifax, Nova Scotia.
- **Resources/Articles:**
 - o [Manitoba signs federal climate change deal after 14-month standoff.](#)
 - o [Federal Budget 2018 helps support forest sector priorities on: addressing climate change; skills training and expanding trade.](#)
 - o [Canada jumps to 4th \(2017\) in new global cleantech ranking.](#)
 - o [Latin America's Renewable Energy Revolution.](#)
 - o [A roadmap for rapid decarbonization.](#)
 - o Pembina:
 - [Energy roadmap could pave way to low-carbon B.C.](#)
 - [Plugging In: Opportunities to procure renewable energy for non-utility companies and institutions in Alberta.](#)
 - o Bloomberg New Energy Finance:
 - [Sustainable Energy In America Factbook 2018.](#)
 - [Clean Energy's Year of Trumping Dangerously.](#)
 - [2017 League Tables: Clean Energy & Energy Smart Technologies.](#)
 - [Tesla Australian virtual power plant cheaper than U.S. PV.](#)
 - [Two clean-power deals this week, funds hunt for more.](#)
 - o Clean Energy Canada:
 - Washington Post - [Countries made only modest climate-change promises in Paris. They're falling short anyway.](#)
 - [China's Coming Challenge to the U.S. Petro-Economy.](#)
 - [Ontario tops Quebec for most electric cars sold in Canada for 2017.](#)
 - [Ontario moves ahead with pursuit of trains powered by hydrogen fuel cells for GO Transit.](#)
 - o Bloomberg Technology:
 - [Toyota Readies Cheaper Electric Motor by Halving Rare Earth Use.](#)
 - o OECD webinar recording - [Making blended finance work for the sustainable development goals.](#)

Renewable energy, by sector below.....

Biomass/Biofuels/Bioeconomy/RNG:

- **Database(s):**
 - o The [Canadian Energy and Emissions Data Centre \(CEEDC, formerly the Canadian Industrial Energy End-Use Data and Analysis Centre\)](#) is part of the Energy and Materials Research Group in the School of Resource and Environmental Management. They are located within the Faculty of Environment at Simon Fraser University.

Clean Energy (Zero Emission) Vehicles/Sustainable Transportation:

- **March 12-April 16, 2018 – Check out British Columbia Utilities Commission Inquiry into the Regulation of Electric Vehicle Charging Service** with Hearings coming to a community near you ([B.C. Utilities Commission seeks input on electric vehicle charging stations future and ways to get involved](#)).

- **March 22, 2018, 4:00pm** (Singapore; 1:00am PST) – Electric dreams: the impact of EVs for energy and metals in Asia.
- **Rebates/Articles:**
 - o B.C. EV Rebate and Incentive Program - Plug In BC - Charging Solutions & Incentives.
 - o TTC plans to buy first electric buses, targets emissions-free fleet by 2040.
 - o Tesla receives orders from four companies for electric truck.
 - o The breakneck rise of China's colossus of electric-car batteries
 - o Shanghai releases its development plan for fuel cell vehicles
 - o All-Electric Airplane and 5 supersized drones you can ride in.

Geothermal Energy:

- **Announcement/Articles:**
 - o Geothermal Canada is a new society founded for the advancement and promotion of geothermal research and development in Canada. Although the name is new, it has a long and rich history with many prominent and important early researchers, explorers and developers in the geothermal energy space active in the Society.
 - o Alberta's geothermal industry potential and barriers.
 - o Alberta town hopes to pull new kind of energy from old gas well.

Hydropower/Energy Storage:

- **March 14-15, 2018** – Capture the Energy 2018: Annual Meeting & Conference, Albany, New York.
- **April 2-4, 2018** - The 7th Energy Storage International Conference and Expo, Beijing, China.
- **April 18-20, 2018** – ESA Energy Storage 29th Annual Conference & Expo, Boston, Massachusetts.
- **May 15-17, 2018** – The Battery Show Europe 2018, Hannover, Germany.
- **Articles:**
 - o Bloomberg New Energy Finance:
 - Solar-plus-storage systems are 'match made in heaven': Q&A.
 - Starwood CEO Saxena sees energy storage flourishing: Q&A.

Marine Energy:

- **Articles:**
 - o Tethys:
 - Cape Sharp (Nova Scotia) tidal demonstration project update.
 - CorPower deploy C3 wave energy converter at EMEC (Scotland).
 - Malta puts floating storage for offshore renewables on trials.
 - Wello is supplying a 10 MW wave energy park to Bali.
 - Wello wins Chinese wave energy contract.
 - Australian wave energy hopeful wins grant to test technology at UK hub.
 - US Navy picks Irish wave energy system.

Solar Energy:

- **March 13-14, 2018** – Solar Asset Management - North America, San Francisco.
- **March 14-15, 2018** - SolarPower Summit, Brussels, Belgium.
- **April 4, 2018** - Intersolar & EES Summit USA East, New York, NY
- **Articles:**
 - o Bloomberg New Energy Finance:
 - GE, Shell drive frontier solar to new heights.
 - o Solar Thermal World:
 - Largest solar thermal installations worldwide
 - o ESVI's solar PV demonstration program.

Waste-to-Energy/Resources/Circular Economy:

- **Websites/Report:**
 - o [Provincial Green Communities Integrated Resource Recovery website.](#)
 - o [National Industrial Symbiosis Program \(NISP\) Canada pilot program website.](#)
 - o [Zero Waste & the Circular Economy \(with Jurisdictional Scan\).](#)

Wind Energy:

- **March 13, 2018** – The **California Offshore Wind Industry Summit** will be held in Sacramento, California.
- **Articles:**
 - o Sun & Wind Energy:
 - [Offshore wind in Europe grew 25% in 2017.](#)
 - o Tethys:
 - [Offshore wind success continues through 2017.](#)
 - [World's largest offshore wind farm begins construction;](#) and [The biggest offshore wind farm on the planet has chosen its turbine supplier.](#)
 - [Big wind turbine research vital to Europe's energy & climate challenges, says WindEurope CEO.](#)
 - [European offshore wind energy reaches record output in 2017.](#)
 - [GE secures nearly 3 GW of North American wind orders.](#)

Complementary to Renewable Energy.....

District Energy:

- **March 28, 2018 DEADLINE** to apply for **District Energy Project Manager for Lulu Island Energy Company,** Richmond.
- **Articles/Reports:**
 - o NRCan's DE Status Report for March:
 - [Vision for Vancouver's Oakridge shopping centre.](#)
 - [Burnaby - Fenix designed energy district morphs master planned community into massive thermal energy asset.](#)
 - [Vancouver - InstarAGF essential infrastructure fund partners with Creative Energy.](#)
 - o CEEDC Reports - [The Canadian Energy and Emissions Data Centre \(CEEDC\) at Simon Fraser University maintains district energy, cogeneration, and renewables databases.](#)

Energy Efficiency:

- **March 23, 2018 DEADLINE** to local governments to complete the **2018 BC Energy Step Code Awareness and Readiness Survey.**
- **Workshop Summary:**
 - o Pembina - [Affordable Housing Renewal: Retrofits at Scale \(Jan 11, 2018 workshop summary\).](#)

Climate Change Adaptation:

- **April 11-13, 2018 7th Annual Risk Management Conference,** Hyatt Regency, Vancouver.
- **April 12, 2018 - Developing Practice Guidelines: Developing climate change-resilient designs for highway infrastructure in BC,** Vancouver
- **April 16, 2018 – Understanding Risk BC,** Victoria Convention Centre, Victoria
- **June 18-21, 2018 - 5th International Climate Change Adaptation Conference,** Cape Town, South Africa.
- **Report/Survey/Article:**
 - o CRD Climate Action News:
 - [BC Auditor General Report Feb 2018: Managing Climate Change Risks.](#)
 - [Survey on local-level climate adaptation in Canada.](#)
 - o New York law suit - [New York City files lawsuit blaming big oil firms for contribution to global warming.](#)

+++++

Best regards,

Ted

Ted Sheldon

Senior Clean Energy Advisor | Alternative Energy | Ministry of Energy, Mines, and Petroleum Resources

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Ted.Sheldon@gov.bc.ca

.....conserve, it's worth the energy



From: Church, Ken (NRCan/RNCan) <ken.church@canada.ca>
Sent: April 10, 2018 12:31 PM
To: s.22 ; Church, Ken (NRCan/RNCan)
Subject: District Energy Status Report - April 2018

Colleagues:

I guess spring is on its way, or at least the snow is abating and retreating from the front doorstep. It lifts one's spirits and hints at new prospects. What then has happened that supports that notion?

Lets' start off with ESAP or rather the Energy Services Acquisition Project, here in Ottawa. This is likely to be (or at least I think) one of the largest redevelopment district energy projects for some time, revamping the existing federal system in downtown Ottawa, probably converting it to biomass and converting the system from steam to hot water. The RFP went out last year and PSPC received six separate consortia. Out of that they selected two to develop more detailed proposals by the end of October this year and their financial proposals by the end of December. I know from experience that PSPC has a pretty rigorous selection process but all the same I was a little surprised at the two groups selected. They are both well versed in government procurement but I didn't see much history of hot water systems, let alone 4th generation or biomass. Still PSPC says that they are happy to work with both to develop the best proposals and with FVB acting as their engineers I'm pretty sure that will happen. I think they are working on delivering contract to the winner in the spring of 2019. Check out: <http://www.obj.ca/article/feds-prequalify-consortiums-bid-heating-and-cooling-modernization-program>

I talked a bit in the January newsletter of the increasing interest in the use of small modular nuclear plants as a heating supply for communities in Canada. Well, Bruce Power are taking this very seriously indeed. Bruce Power, Mirarco Mining Innovation and Laurentian University have signed a \$1 million MoU to create up an Industrial Chair for research into the opportunities for the use of SMRs in the north. Check out: <https://www.newswire.ca/news-releases/bruce-power-signs-1-million-memorandum-of-understanding-for-sustainable-energy-research-group-679000363.html> for more details.

No doubt some of you will be visiting the IDEA conference in Vancouver in June, around the 11th to the 13th I believe. Well if you are into the bio-economy then you might want to start your trip early and call in to Prince George to their Canadian Bio-economy Conference and Exhibition. This is running the week before from 6th to 8th June. This annual event is always a crowd puller (and a bit cheaper than Vancouver) with the City of Prince George always a leader in this field. Contact Rob vanAdrichem for details (Rob.vanAdrichem@princegeorge.ca) or go to <http://bioeconomyconference.com> or <https://www.canadianbiomassmagazine.ca/education/cbec-to-host-workshop-on-sustainability-and-local-community-energy-solutions-6766>

I read an interesting article from the Netherlands recently as to how they are proposing to get two million homes off of natural gas by 2030: that's like 200,000 per year! The notion is to use heat pumps either in a stand-alone format or through the existing district energy systems. The other key energy source will be waste heat from industry. I've always promoted this but in north America it's always cheaper (for whom I'm not sure) to burn natural gas but I am pretty sure the idea of waste heat will come along soon. Added to that example there was another article describing the intended use of waste heat from a Stockholm data centre to heat up to 10,000 households. The comment from a representative of the company Digitex who runs the centre was that: a progressive data centre needs to explore every avenue to reduce its carbon footprint, with the world's data centres responsible for two percent of the world's annual CO² emissions and three percent of the world's power consumption. So far I know of only 2 data centres in Canada

connected to district energy systems. One in Markham and the other in Vancouver (correct me please if I am wrong) so why are we not taking advantage of this free heat?

<https://www.dutchnews.nl/news/2018/03/two-million-dutch-homes-to-be-gas-free-by-2030-as-energy-transition-takes-shape/>

<https://www.zdnet.com/article/this-data-centers-excess-heat-will-help-warm-thousands-of-homes/>

I talked to my colleague Philippe this morning about the second round of the Green infrastructure program. In fact I got him out of the meeting where they were discussing the proposals. He reckons that they're planning on letting everyone know the outcome in mid April, so another week or two to find out. Then the chosen few will have 8 weeks or so to prepare their detailed proposal and financial plans. Good luck to those on the list.

Thanks to those who responded to Lulu Island's job offer. Alen Postolka said that he had a selection of candidates to choose from and see which ones fitted the Lulu Island's requirements. That raises an interesting subject, that of staffing. Here's a question for system owners: how do you get your operating staff – do they come ready made or do you have to train them? If so, do you have access to the right training resources or is this something the District Energy Working group should be addressing? Michael Lee and the QUEST guys will be at the IDEA conference in June and will be holding a Working Group meeting. Maybe a discussion on staff availability should be on the agenda. Send me / Michael a note with your thoughts.s.22 _____ or mlee@questcanada.org to get a discussion going.

Good news from Enwave. Not only are they involved with the Well, a new development in Toronto where they are installing cold water storage as part of their system, now they are linked to a new development in the East Bayfront community through a development with Menkes Developments Ltd. The "25-storey Class "AAA" LEED Platinum building—which broke ground last month and will feature 75,000 square feet of retail space and 600,000 square feet of office space, including the LCBO's new 225,000-square-foot headquarters—will be exclusively serviced with chilled water and hot water supplied by Enwave's district energy system." This is likely the first of many new developments since Enwave is the process of developing an MoU with the City of Toronto to develop a series of low carbon communities throughout the city. The agreement, adopted by Council on the 26th march places Enwave as the general partner and the City as a limited partner in the joint development agreement. Council also instructed Build Toronto and CreateTO to work with Enwave to develop these projects. Things look good for the city to achieve its low carbon objectives and it'll be interesting to watch how the public and private sector work together over an extended period.

<https://globenewswire.com/news-release/2018/04/02/1458748/0/en/Enwave-to-Expand-Its-Low-Carbon-District-Energy-System-East-Anchored-by-Menkes-s-Landmark-100-Queens-Quay-East-Development.html>

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2018.EX32.8>

The Alberta budget was laid down last week and delivered a few presents for key areas of the DE sector. Mike Kohlenberg at the University of Alberta tells me that: The GoA did approve funding for the DES that services the UofA and other customers in the greater campus area. The money is being used to increase the fault level of our electrical distribution system to allow our on-site generation to run unimpeded. All this , reinforces the GoA's original commitment to fund capital expansion and upgrades for our DES.

<https://www.lexology.com/library/detail.aspx?g=d6ecdc50-c3c3-40df-8e9b-756355358d35>

Ok then I'm out of here now. The newsletter, now in its 4th year, will continue next month under the same name " District Energy Status report" with a hope that I'll not be spammed out of your mail boxes. It should also have a greater circulation as with my leaving the federal government I can include around 35 federal public servants in the mailing list. These are people who should be knowing what is happening in the district energy sector but who, because of our communications policies, were not on the list. Now we are up to almost 350 so your activities will be read by the people inside as well as outside the government. If you have some particular contact that you think should read this note then feel free to share it or contact me and I'll add them to the list.

My colleague Raymond Boulter will continue as the NRCan point person for District Energy. He can be reached at Raymond.Boulter@Canada.ca or by phone at (613) 943 0951. I on the other hand will become Ken's District Energy Status Report and be found at s.22 _____ . Please change your outlook files.

Take care.

Ken Church
Team Leader – Communities
CanmetENERGY
Natural Resources Canada
1 Haanel Drive, Ottawa, Ontario K1A 1M1
T (613) 947 8952
Website <http://www.nrcan.gc.ca>

PLEASE NOTE NEW EMAIL ADDRESS : ^{s.22}

This email is sent to you as someone who is interested in District Energy. If you no longer wish to receive it then please let me know and I'll take you off the list. Thanks

From: Church, Ken (NRCan/RNCan) <ken.church@canada.ca>
Sent: February 28, 2018 6:18 AM
To: s.22 ; Church, Ken (NRCan/RNCan)
Subject: District Energy Status Report - Budget breakdown

Colleagues

No doubt you all sat up all night reading the 2018 budget? Yeah, right!

So, what has the 2018 Federal Budget bring for the district energy sector? To be blunt – not a lot this year. We received a big chunk of change last year and I believe the guys in NRCan and others are still working like crazy trying to get the money out the door (why is it so hard to spend money?). Still there are a couple of good points in this year's delivery.

There is still a great deal of support for the Pan Canadian Framework which is heartening in these days of switching priorities. You'll remember that the federal government has committed \$2 billion dollars for the Low Carbon Economy Fund in which it is working with the provincial governments to deliver over the next 12 years. The focus this year is correspondingly strong in the area of the natural environment, improving or protecting the impact of the expanding economy. The improved environmental assessment process is receiving \$1 billion to ensure we get a process that works, is fair and provides proactive decisions. That's something that district energy proponents should be promoting – the environmental benefits of using non-fossil or other low carbon fuels.

The pricing on carbon is still moving forward. Provincial commitment for a carbon price must be provided by March 30 and plans in place by September 1, 2018. As far as I understand there is only one real hangout – Saskatchewan, my mother's home province although I don't think that she has anything to do with it. Implementation of those plans, or the federal backstop process is to be in place by new year's day - January 1 2019. Delayed a bit but nevertheless, in place. Just to support this there is money going to establish a workable process with the Canada Revenue Agency to administer the movement of the federal carbon pollution pricing system.

Talking of federal pollution, the Greening Government Operation are following up on last year's funding of the Cliff Street heating plant in Ottawa with some funding this year for the Canadian Forces Base in Halifax including refurbishing the "antiquated heating plant". I hope to goodness that they don't just replace the steam boilers with more steam boilers and that they think of something a bit more effective, maybe talk to the HRM about the Cogswell interchange proposal for sewer heat recovery. I'll not hold my breath though, they claim an emission reduction only 7% - sounds pretty small eh?

As far as tax support for businesses, the accelerated write off program is scheduled to finish in 2020. This budget however is proposing to extend the CCA program until 2025 to encourage the acquisition of energy efficient equipment for industry.

Additional money is being provided for the housing programs for Indigenous, Inuit and Meti communities. Housing requires energy and opportunities will be there to spread the word of community heating. I know that QUEST has been talking with Indigenous and Northern Affairs regarding community energy planning in first nations communities since there is significant interest from their members. Maybe these housing programs can incorporate more community based energy systems – possibly tying in with NRCan's current program for rural and remote communities?

Canada's Innovation and Skills plan might be of interest to some of our sector. You've probably heard before about the superclusters, focusing on artificial intelligence, next generation manufacturing, data driven enterprises and protein industries in the prairies. Well, Innovation Canada and its Innovation Solutions Canada procurement program is (and I quote) "fulfilling a longstanding request from Canadian companies to help connect with government as a collaborator

and first customer". Ok, this may be an opportunity for all those system owners who have bitched about the feds not hooking up their buildings. Why not present them with a sector wide proposal for low carbon heating?

For research there is also some new funding, including \$350 million each for NSERC and \$215 million for its social science counterpart, SSHRC. Students and professors can access NSERC and SSHRC funding and have done great work the aids community energy planning and district energy development. One example is Kirby Calvert in Guelph looking at how to get communities to integrate community energy planning within the municipal planning processes. The solar thermal research undertaken in Concordia and Waterloo could provide valuable insight into DE opportunities. The DE sector should make greater use of the colleges and universities to solve some of their problems?

The Industry Research Assistance (IRAP) has been given more money too. IRAP helps entrepreneurs with advise and funding and I know has been involved in several district energy studies. They have a new threshold of \$10 million per project. For those interested check out Nation Research Council or just google IRAP. Regional support agencies are also being aided. These agencies have also been supported the early development of DE systems and could be useful across the country. Canadian Northern Economic Development Agency has \$20 million per year to work with, the Federal Economic Development Agency has \$920 million (primarily for southern Ontario).

Well, as I said there was not as much this year as last that was directly for the DE sector but there is still a great deal of opportunity out there.

Hope this helps

Ken Church
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Website <http://www.nrcan.gc.ca>

PLEASE NOTE NEW EMAIL ADDRESS : ken.church@Canada.ca

This email is sent to you as someone who is interested in District Energy. If you no longer wish to receive it then please let me know and I'll take you off the list. Thanks

Page 148 of 320 to/à Page 153 of 320

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From: Boulter, Raymond (NRCan/RNCan) <raymond.boulter@canada.ca>
Sent: February 1, 2019 7:52 AM
Cc: Boulter, Raymond (NRCan/RNCan)
Subject: District Energy Update - February 2019

Colleagues,

Winter greetings from Ottawa, and congratulations for having survived January! A few district energy related items that might be of interest to you:

IEA-DHC Consultation: Priority Research Needs

As mentioned in my last update, the IEA District Heating & Cooling programme is entering the planning stage for its future work under Research Annex XIII (2020-2023). If you would like to submit ideas for priority research theme areas, which will be used as a basis for a Call for Proposals later this year, please let me know your thoughts on the following:

1. **Please provide up to 5 DHC themes that you would like to see addressed by research.**
2. **What is your vision for the development of DHC in Canada?**
3. **What are the major obstacles and opportunities that need to be addressed by research to assist the development of the DHC sector over the next 5 to 10 years?**

Thank you to those who have provided feedback to date. I will accept input for this through February 15th, 2019, and can share the identified priority theme areas in future updates. Please contact me should you have any questions or would like more information on this or the programme in general.

Canadian District Energy Inventory

Also mentioned previously, CanmetENERGY is working with CEEDC at Simon Fraser University to update the national district energy inventory and survey report. Brad Griffin at CEEDC is compiling the responses that have trickled in over the past few weeks. **Thank you** to all system operators who have completed the questionnaire. The inventory is the most comprehensive collection of data on district energy in Canada, very valuable for illustrating DE's value. It is (very) late, but if you are one of the few (☺) system operators who has not yet completed your questionnaire please contact Brad (bradford_griffin@sfu.ca) or myself **ASAP!**
Stay tuned in the coming months for the survey results and release of the inventory data.

NRCan (OEE) Cogeneration Workshop

Just found out this week that NRCan's Office of Energy Efficiency (*Transportation and Alternative Fuels Division*) is hosting an upcoming Cogeneration workshop that may be of interest. Details:

- **Date:** *Tuesday February 12th, 2019, 8:30am – 5:00pm*
- **Location:** *111 Sussex Drive, Ottawa in the Algonquin Room.*
- **Objective:** *This workshop will be used to educate stakeholders on the opportunities, challenges, and potential for using cogeneration as a technology to reduce greenhouse gas emissions, and its role within the broader energy mix.*

I'm told that the event will also be available online via WebEx.

Registration is required. If interested in attending, please contact OEE's Ellen Handyside at ellen.handyside@canada.ca.

Low Carbon Economy Challenge Champions Stream

Congratulations to Enwave Energy Corp, on being the first funding recipient announced under the federal Low Carbon Economy Challenge (Champions Stream), being awarded \$10million for their project to expand their Deep Lake Water

Cooling System serving downtown Toronto through their district cooling network. The expansion will enable connection to an additional 2million m² of floor space, and is projected to reduce the local electrical peak by 13MW.

Also worthy to note that 14 of the 140 full proposals evaluated under the Champions Stream involved district energy, a positive sign of continued interest and potential growth opportunities.

Low Carbon Economy Challenge Partnerships Stream

The \$50M LCEC 'Partnerships stream', open to Indigenous communities & organizations, small & medium sized businesses, not-for-profit organizations, and small municipalities, is now accepting applications for funding. Details [here](#). Submission deadline: **March 8th, 2019**

Note: If you submitted a proposal to the Champions Stream and wish to also be considered for the Partnerships Stream, a new application for the Partnerships Stream is required.

Dalhousie AC Biomass Energy Plant

Congratulations to the Dalhousie University Agricultural Campus in Truro, NS, on the [grand opening](#) of their new [Biomass Energy Plant](#) and renewed district heating system, which has also been converted from steam to hot water; one of the university's latest initiatives to improve sustainability and reduce GHG emissions. The new system includes a 1MWe organic rankine cycle turbine to generate power for grid export, contracted through the province's COMFIT program.

The engineering and construction team included FVB Energy, Dexter Construction, Black & McDonald, and GJ Cahill Company Ltd.

QUEST DE Working Group

Reminder to anyone involved with the QUEST DE Working Group that there will be an in-person meeting Wednesday Feb 6th, 2019 11am (AST) in Moncton, NB, with an option for web/teleconference participation. Contact Michael Lee (mlee@questcanada.org) for more information.

Affordable District Energy Challenge

An international item that passed through my inbox this week: The Swedish Energy Agency is looking to create a new global challenge called the *Affordable District Energy Challenge*, as part of the Mission Innovation Action Plan. From the message I received, the intent is to "*attract progressive cities, brilliant entrepreneurs and investors from around the world to design and implement transformative solutions that reduce carbon emissions through innovative, sustainable and affordable district energy solutions.*"

A kick off discussion with [Mission Innovation](#) representatives is happening in London on Feb 22nd, 2019. Interested to see how this may evolve, especially any potential Canadian opportunities.

Upcoming Events that may be of interest:

QUEST: [QUESTtalks: PCP Implementation](#), Feb 5-6th, 2019, Moncton, NB

NRCan: Cogeneration Workshop, Feb 12th, 2019, Ottawa, ON (see above for more info)

International District Energy Association (IDEA):

- [IDEA CampusENERGY 2019](#), Feb 26 – Mar 1, 2019 New Orleans, LA
- [IDEA2019 Annual Conference & Trade Show](#), Jun 24-27, 2019, Pittsburgh, PA

Ontario Association of Physical Plant Administrators (OAPPA):

- [Annual Conference](#), May 28-31, 2019, Toronto, ON

Federation of Canadian Municipalities (FCM):

- [Annual Conference and Trade Show](#), May 30 – Jun 2, 2019, Quebec, QC

Any feedback or comments you may have, or news and events you would like to share are greatly welcomed and appreciated. You can reach me at raymond.boulter@canada.ca or 613-943-0951 (my office phone is working again).
Best regards,
Raymond

This email has been sent to you as someone who is interested in District Energy. If you no longer wish to receive emails from CanmetENERGY on the subject of District Energy, please let me know and I will take you off the list. Thanks.

Raymond Boulter, P.Eng

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Page 157 of 320 to/à Page 158 of 320

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Adapting for Net Zero Ready Buildings

Buildings - the places we live, work and play - account for approximately 12 percent of national GHG emissions in 2014 across Canada. By making our built environment more energy efficient reduces GHGs, helps makes homes and buildings more comfortable and more affordable by lowering energy bills, and can promote innovation and clean job opportunities.

Energy efficiency is the first, and perhaps most fundamental, of the four pillars that underlie the **Smart Energy Community** model at the core of QUEST's mission. A Smart Energy Community uses all available policy levers to capture the benefits of energy efficiency—including lower energy costs, reduced emissions, and improved operating performance.

With the announcement of Building Code targets of Net Zero Ready buildings by 2030 (Federal) and 2032 (BC) and the roll out of the new BC Energy Step Code, the building sector in BC is in a transformational phase. As the BC Energy Step Code is rolled out across the province, new economic development opportunities will arise and new standards will be expected of current suppliers in the industry. These changes offer strong opportunities for off-site manufacturing, process efficiency, quality control and working with wood product manufacturing.

A recent survey of local governments conducted by B.C.'s housing authority suggests a decent level of interest in the BC Energy Step Code. Of 69 unique communities surveyed, 41 indicated a medium or high interest in referencing the regulation in bylaw within the next one to two years.

On the industry side, the province is working to close gaps identified in builder education and training. Research suggests that the province's construction industry has struggled to comply with the many pages of prescriptive requirements in the *BC Building Code*. The new standard seeks to modernize this approach by providing a common language for builders to use on efficiency. The BC Energy Step Code also gives builders a welcome level of consistency on performance requirements between local governments.

The new regulation is an exciting tool to not only foster Smart Energy Communities, but also boost the province's clean-growth economy. That's why QUEST BC is hosting a day long workshop that will bring together with municipalities, energy service providers, and the province to explore and understand economic development opportunities linked with Net Zero Ready buildings, the BC Energy Step Code, manufacturing trends, process efficiency, and quality control.

This interactive workshop will address what the province is doing to help the transition to the BC Energy Step Code and how they can be a resource for you. Additionally, the workshop will outline how the industry servicing the building sector will be affected and what economic development opportunities are anticipated. QUEST hopes to convene a wide range of companies that manufacture high-performance building products and provide related services, to explore the unique opportunities and challenges that the new standard presents.

Adapting for Net Zero Ready Buildings

BC Energy Step Code Economic Development Opportunities Workshop Outline

Location: Quality Inn, Abbotsford BC - November 28th, 2017

Purpose: The workshop brings together with municipalities, energy service providers, and the province to explore and understand economic development opportunities linked with Net Zero Ready buildings, the BC Energy Step Code, manufacturing trends, process efficiency, and quality control.

Target Audience: Product manufacturers and suppliers, builders, finance, local government staff, and elected officials from surrounding area (i.e., FVRD and Metro Vancouver.)

Description: With the announcement of Building Code targets of Net Zero Ready buildings by 2030 (Federal) and 2032 (BC) and the roll out of the new BC Energy Step Code, the building sector in BC is in a transformational phase. As the BC Energy Step Code is rolled out across the province, new economic development opportunities will arise and new standards will be expected of current suppliers in the industry. These changes offer strong opportunities for off-site manufacturing, process efficiency, quality control and working with wood product manufacturing.

Join this workshop as industry, the province, municipal leaders and energy service providers come together to explore the economic development opportunities associated with the Net Zero Ready Buildings and the BC Energy Step Code. What you can expect to learn:

- Construction industry trends to meeting new regulatory standards.
- Links between Net Zero Ready buildings, off-site manufacturing, and quality control.
- What the province is doing to help the transition to the BC Energy Step Code and how can they be a resource for you?
- What are the economic opportunities for municipal governments?
- How might the industry servicing the building sector be affected and what economic development opportunities are anticipated?
- How are energy service providers supporting the BC Energy Step Code?

Sponsorship - \$15K

- Fortis BC
- BCREf
- Vancouver Economic Commission
- Western Economic Development
- Chamber of Commerce
- BCH - can't sponsor but could pay for report development that could feed into the event.

Building Associations

Proposed Agenda:

- 8:30 Opening Keynote - Net Zero Ready Vision, the BC Energy Step Code and Economic Development Opportunities - Minister Selina Robinson (*invited*)
- 9:15 Opening Panel -
- Jonathan Wilkinson (Parliamentary Secretary for Climate - Federal Perspective and Perspective as a business leader)
 - Mohamed Al Hussein (Implications for manufacturers (e.g., off site manufacturing)
<http://www.civil.engineering.ualberta.ca/Research/ResearchAreas/Construction/MohamedAl-Hussein.aspx>)
 - Helen Goodland (trends in BC construction practices - industry efficiency, wood manufacturing links?)
- 10:00 Networking Break
- 10:30 Interactive Session - Business Case for Builders/Manufacturers (Pick your Path)
- Results from Costing Study - Technology trends - logical breakdown - windows, wall assemblies, technologies?
- 11:15 Plenary - How is the building sector preparing for the Step Code
- Bob Deeks
 - Britco
 - One of the LEAP builders
- 12:00 Lunch
- 1:00 Interactive Session - Financing the Shift (Pick your Path)
- VanCity Speaker? (e.g., Lisa Coltart)?
- 1:45 Networking Break
- 2:00 Plenary - Supporting Industry Transition - Collaboration through the Energy Step Code Council
- Norm Connolly?
 - Barclay?
- 2:45 Closing Remarks - Mayor of Abbotsford? Or Head of Chamber of Commerce? (Need a local story.)
- 3:00 Study Tour(s) - Britco, Cascadia

BC Energy Step Code Economic Development Workshop - Meeting #2

Thursday, September 21, 2017 | 9:00 - 10:20 am PDT | Advisory Committee
Call

Conference Call Number: 1 (888) 289-4573

Passcode: 8311230

Meeting Agenda

- | | |
|-------|--|
| 9:00 | Welcome and Introductions |
| 9:10 | Workshop Update
<i>Samantha Heigl, Lead, QUEST Alberta Services</i> <ul style="list-style-type: none"> • Participant List • Sponsorship Update • Event Outline & Participant Fee • Speakers • Tour(s) |
| 9:20 | Communications Plan
<i>Tonja Leach, Senior Lead, QUEST National Affairs & Services</i> |
| 9:40 | Backgrounder
<i>Open Forum</i> |
| 10:10 | Next Steps |
| 10:20 | Adjourn |



BC Energy Step Code Economic Development Workshop

Communications Plan

Twitter

Learn how to Adapt for the BC Energy Step Code during @QUESTCanada Economic Development Workshop. *insert link*

Be apart of the transition by attending @QUESTCanada's Adapting for the BC Energy Step Code Workshop *insert link*

Find out the Economic Development Opportunities associated with the enactment of the BC Energy Step Code *insert link*

Curious about the future of buildings in BC? Register for @QUESTCanada's one-day workshop on the BC Energy Step Code *insert link*

Join us at @QUESTCanada's Adapting for the BC Energy Step Code - Economic Development Opportunities Workshop in #Abbotsford *insert link*

Linkedin

In April 2017 the BC Energy Step Code was enacted, how might the industry servicing the building sector be affected and what economic development opportunities are anticipated? Learn the answers to these burning questions by registering for @QUEST - Quality Urban Energy Systems of Tomorrow's, Adapting for the BC Energy Step Code - Economic Development Opportunities Workshop. *insert link*

Are you interested in learning about the Economic Development Opportunities that are anticipated because of the BC Energy Step Code? Register for Adapting for the BC Energy Step Code - Economic Development Opportunities, one-day workshop in Abbotsford, BC. For full event details click here. *insert link*

Are you a part of the building's industry in BC? Learn what economic development opportunities exist for you by attending @QUEST- Quality Urban Energy Systems of Tomorrow one-day workshop Adapting for the BC Energy Step Code - Economic Development Opportunities. *insert link*

Newsletters

In April 2017 the BC Energy Step Code was enacted and is a voluntary provincial standard that provides an incremental and consistent approach to achieving more energy-efficient buildings that go beyond the requirements of the base BC Building Code. The question that remains is how might the industry servicing the building sector be affected and what economic development opportunities are anticipated?

Join the conversation on November 28th as industry, the province, municipal leaders and energy service providers come together to explore the economic development opportunities associated with the BC Energy Step Code. Register today! *insert link*

With the BC Energy Step Code having been brought into regulation earlier this year and the end of local building requirements being included in municipal bylaws on December 15th, the building sector in BC is in a transformational phase. As the BC Energy Step Code is rolled out across the province, new economic development opportunities will arise and new standards will be expected of current suppliers to the industry.

Join the conversation on November 28th as industry, the province, municipal leaders and energy service providers come together to explore the economic development opportunities associated with the BC Energy Step Code. Register today! *insert link*

Opportunities for Cross Promotion

Other events leading to this workshop for cross-promotion and continuation of content:

- CaGBC BC Chapter
- Cascadia Green Building Council - Net Positive Symposium, Oct 30-31
- FortisBC events with Builders & Developers
- CHBA - September

Cottier, Anna OHCS:EX

From: Pape-Salmon, Andrew OHCS:EX
Sent: September 21, 2017 9:30 AM
To: Hutchinson, Jarrett OHCS:EX; Corpe, Cimarron OHCS:EX; May, Zachary OHCS:EX; Daykin, Tricia OHCS:EX; Andersson, Dale OHCS:EX; Mohareb, Adrian OHCS:EX; Pedde, Don OHCS:EX
Subject: FW: BC Event Planning - Energy Step Code and Ec Dev Opportunities
Attachments: Backgrounder - BC Workshop.docx; BC Energy Step Code - Economic Development Opportunities Workshop Sketch (4).docx; BC Workshop Advisory Call Sept 21st - Agenda (2).docx; BC Workshop Communications Plan.docx

An excellent session coming up on the economic development benefits of Step Code with a secondary theme on market readiness. Nov 28th.

Cheers,

*Andrew Pape-Salmon | P.Eng., MRM, FCAE
Executive Director, Building and Safety Standards Branch
Office of Housing and Construction Standards
Ministry of Municipal Affairs and Housing
Cell/Text: 250.812.1933
Tel: 250.387.3133
Email: Andrew.PapeSalmon@gov.bc.ca*

Please see our website: www.gov.bc.ca/buildingcodes

From: Samantha Heigl [mailto:ab.caucus@questcanada.org]
Sent: Thursday, September 21, 2017 7:44 AM
Cc: Tonja Leach
Subject: BC Event Planning - Energy Step Code and Ec Dev Opportunities

Hello Everyone,

I updated the invitation earlier this week with a few attachments including an updated sketch of the event, an agenda for the call, a one-pager backgrounder and a communications plan.

In case you can't access the documents through the calendar invite I have also attached them to this email in word format for your review.

Looking forward to chatting with you all very soon.

Samantha Heigl
Lead, Alberta Services | QUEST
350 Albert St. Suite 1220 | Ottawa ON | K1R 1A4

T: [866-494-2770](tel:866-494-2770) *709 W: questcanada.org E: ab.caucus@questcanada.org

Cottier, Anna OHCS:EX

From: Tonja Leach <tleach@questcanada.org>
Sent: May 5, 2017 7:27 AM
To: Poulton, Gail OHCS:EX
Subject: Re: QUEST event - BSSB cost of Flights

Follow Up Flag: Follow up
Flag Status: Completed



Hi Gail,

I have discussed the possibility of covering Andrew's travel internally by QUEST and I have the approval to cover his costs up to \$330.

Many thanks,
Tonja



Sent with [Mailtrack](#)

Tonja Leach

Senior Lead, National Affairs & Services | QUEST
New address - 350 Albert St. Suite 1220 | Ottawa ON | K1R 1A4

T: 866-494-2770 *706 W: questcanada.org

F: 613-627-2938 E: tleach@questcanada.org

Please Note: We now have a NEW toll free number: [\(866\) 494-2770](tel:8664942770)



On Tue, Apr 25, 2017 at 12:22 PM, Poulton, Gail OHCS:EX <Gail.Poulton@gov.bc.ca> wrote:

Good morning Tonja;

We bulk buy Harbour Air and receive a discount for that. Our costs are \$157.72 each per ticket so \$315.44 return. Regular fare is \$434.00 return so a savings of \$129.56 on a return flight.

Andrew can fly to the airport or the Vancouver harbour, whichever is closer to the event. We also have compass cards for travelling in Vancouver, maximum spent to date is about \$14.00 by any staff member.

I would book the flights for Andrew and you in turn would reimburse the branch by cheque to the Minister of Finance.

I estimate that Andrew's cost for travel would run around \$330.00.

If I can provide you with further information, please feel free to ask.

Kind regards,

Gail Poulton | Administrative Assistant

> _____

> Building and Safety Standards Branch | Office of Housing and

> Construction Standards Ministry of Natural Gas Development and

> Minister Responsible for Housing

> Phone: 250 387- 3133

> Email: Gail.Poulton@gov.bc.ca

www.gov.bc.ca/buildingcodes

>

From: Pape-Salmon, Andrew OHCS:EX

Sent: Tuesday, April 25, 2017 9:08 AM

To: Tonja Leach

Cc: Poulton, Gail OHCS:EX

Subject: RE: QUEST event

Thanks, it for each meeting.

If we book further in advance, we can get a lower rate. We purchase tickets in bulk, so the cost is minimized – Gail can elaborate.

Cheers,

Andrew Pape-Salmon | P.Eng., MRM, FCAE

Executive Director, Building and Safety Standards Branch

Office of Housing and Construction Standards

Ministry of Natural Gas Development and Minister Responsible for Housing

Cell/Text: 250.812.1933

Tel: 250.387.3133

Email: Andrew.PapeSalmon@gov.bc.ca

Please see our website: www.gov.bc.ca/buildingcodes

From: Tonja Leach [<mailto:tleach@questcanada.org>]

Sent: Tuesday, April 25, 2017 9:06 AM

To: Pape-Salmon, Andrew OHCS:EX

Subject: Re: QUEST event



Hi Andrew,

Thanks for reaching out. I will need to investigate and get back to you on covering your float plane expenses. Can you please clarify if the approximate cost is for the meeting on May 30th and the fall workshop or just the May 30th meeting?

Many thanks,

Tonja



Sent with Mailtrack

Tonja Leach

Senior Lead, National Affairs & Services | QUEST

New address - 350 Albert St. Suite 1220 | Ottawa ON | K1R 1A4

T: 866-494-2770 *706 W: questcanada.org

F: 613-627-2938 E: tleach@questcanada.org

Please Note: We now have a NEW toll free number: (866) 494-2770



On Tue, Apr 25, 2017 at 11:59 AM, Pape-Salmon, Andrew OHCS:EX <Andrew.PapeSalmon@gov.bc.ca> wrote:

Greetings Tonja,

I realize that QUEST is a non-profit, but given that this is a special project for our Branch, I am obligated to ask if you can provide travel cost assistance to attend the meeting on May 30th and the fall workshop. It would be appreciated if QUEST or one of the BC members is able to cover my float plane expenses, approximately \$450 return.

Thanks for your consideration.

Regards,

Andrew Pape-Salmon | P.Eng., MRM, FCAE

Executive Director, Building and Safety Standards Branch

Office of Housing and Construction Standards

Ministry of Natural Gas Development and Minister Responsible for Housing

Cell/Text: 250.812.1933

Tel: 250.387.3133

Email: Andrew.PapeSalmon@gov.bc.ca

Please see our website: www.gov.bc.ca/buildingcodes

From: Tonja Leach [mailto:tleach@questcanada.org]

Sent: Thursday, April 20, 2017 9:54 AM

To: Pape-Salmon, Andrew OHCS:EX

Cc: Wark, Robyn; Jason Emmert; Wolfe, Jason (Jason.Wolfe@fortisbc.com); May, Zachary OHCS:EX

Subject: Re: QUEST event

Thank you for agreeing to participate and for the suggestion Andrew.

We are just lining up a few other elements for the agenda. I will be in touch with more information ASAP and will coordinate a brief call in advance of the meeting to discuss the desired outcome(s) of the meeting and answer any questions you may have.

Regards,

Tonja



Sent with Mailtrack

Tonja Leach

Senior Lead, National Affairs & Services | QUEST

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Please Note: We now have a NEW toll free number: (866) 494-2770



On Wed, Apr 19, 2017 at 8:20 PM, Pape-Salmon, Andrew OHCS:EX <Andrew.PapeSalmon@gov.bc.ca> wrote:

Greetings,

Thanks for your email and voice mail.

May 30th should work well. Please send me an invite.

One point of consideration would be to broaden the theme to include “resilient” buildings, aligned with this PNWER initiative (attached). This includes “net-zero-ready” new construction, but also speaks to climate change adaptation – and existing buildings.

Cheers,

Andrew Pape-Salmon | P.Eng., MRM, FCAE

Executive Director, Building and Safety Standards Branch

Office of Housing and Construction Standards

Ministry of Natural Gas Development and Minister Responsible for Housing

Cell/Text: [250.812.1933](tel:250.812.1933)

Tel: [250.387.3133](tel:250.387.3133)

Email: Andrew.PapeSalmon@gov.bc.ca

Please see our website: www.gov.bc.ca/buildingcodes

From: Wark, Robyn [<mailto:Robyn.Wark@bchydro.com>]

Sent: Wednesday, April 19, 2017 4:17 PM

To: Pape-Salmon, Andrew OHCS:EX

Cc: Tonja Leach; Jason Emmert; Wolfe, Jason (Jason.Wolfe@fortisbc.com)

Subject: QUEST event

Andrew

I am Vice-Chair of the QUEST-BC caucus (Jason Emmert is the Chair, and Jason Wolfe is the other Vice-Chair). We are thinking about holding a 1-day workshop in the fall looking at "BC Economic Development Opportunities for the Market Transformation to Net Zero Buildings" (or a snappier title). We want to float this idea with the BC Caucus on May 30, and discuss how to get this event going. To get the mental thinking going, we wondered if you could attend our May 30 BC caucus meeting to share some ideas about market transformation, Economic Devt, Step Code etc.

Please let us know your interest and availability. If you need to discuss further, feel free to give me a call!

Cheers ... Robyn

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Built Environment CLP Engagement

QUEST Symposium

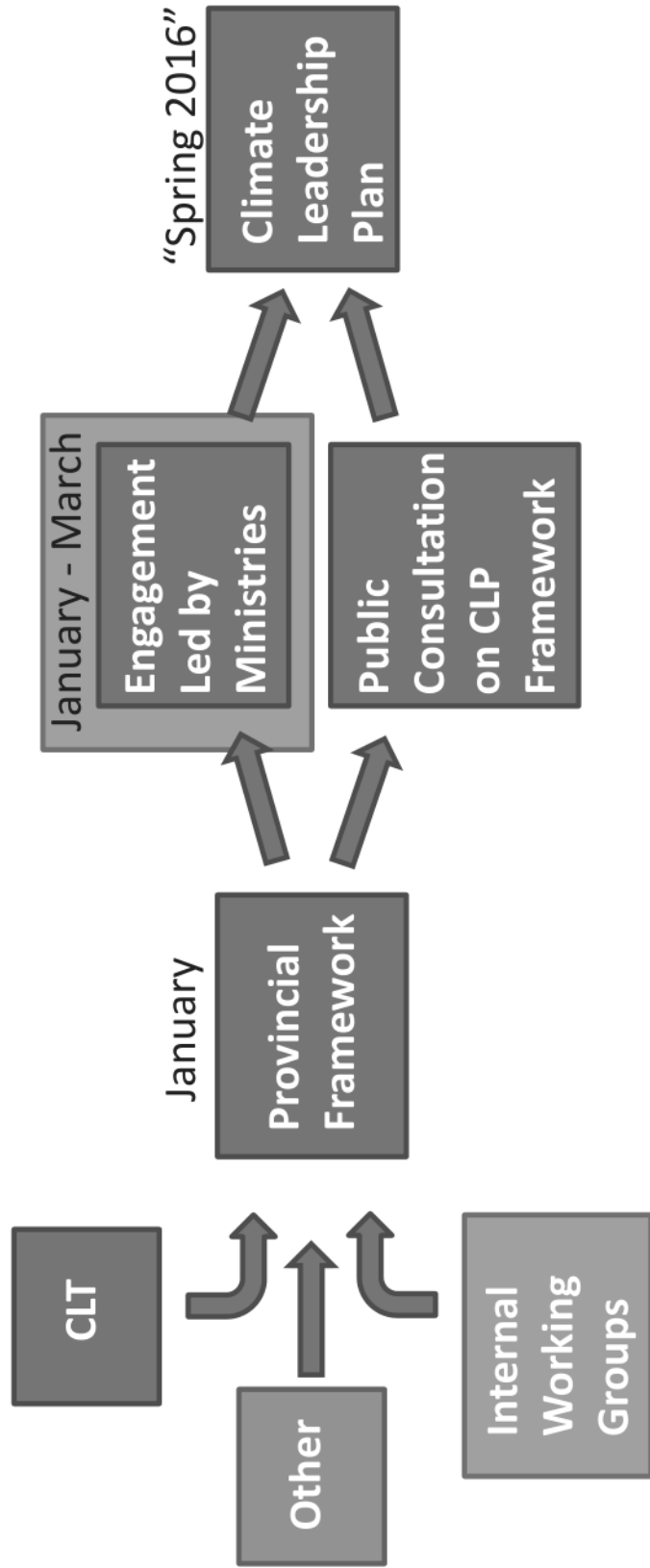
New Westminster, BC

January 28, 2016

Built Environment CLP Engagement Partners

- Building and Safety Standards Branch
- Climate Action Secretariat
- Ministry of Energy and Mines
- Ministry of Community, Sport and Cultural Development
- Ministry of Technology, Innovation and Citizens' Services, Real Property Branch

Terms of Reference & Background

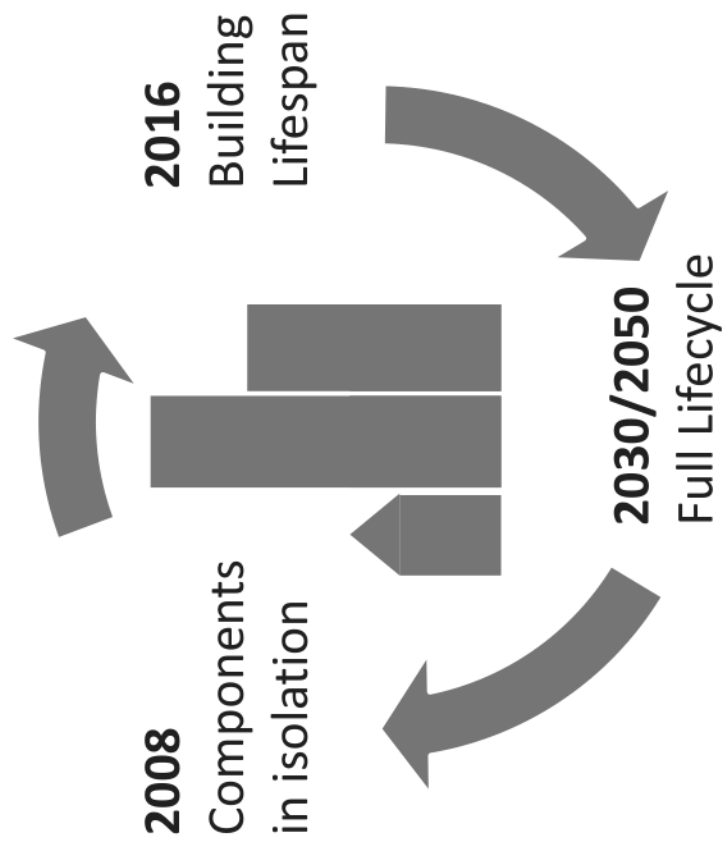


Attendees

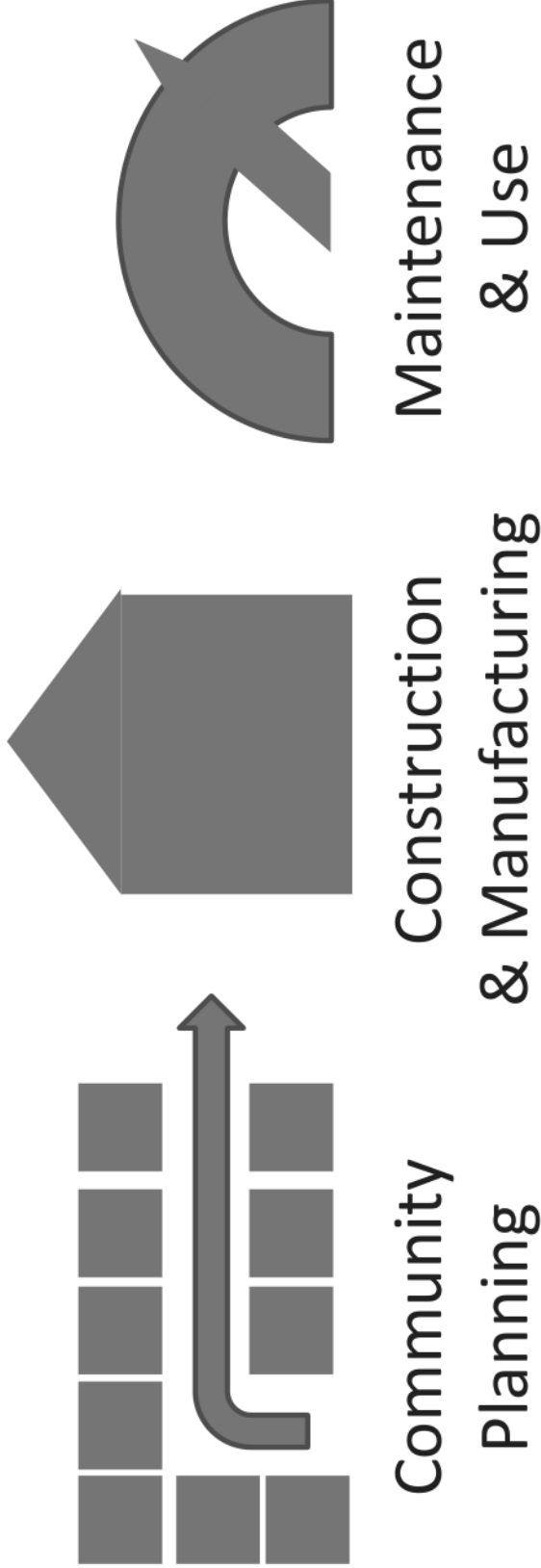
- First Nations
- Local Governments
 - Planning, Engineering and Sustainability, Building Officials, Management
- Union of BC Municipalities
- Utilities
- Equipment Manufacturers
- Construction and Development
- Trades Associations
- Professional Associations
- Warranty and Insurance Providers
- Crown Corporations
- Building Owners, Managers and Operators
- Non-Governmental Organizations



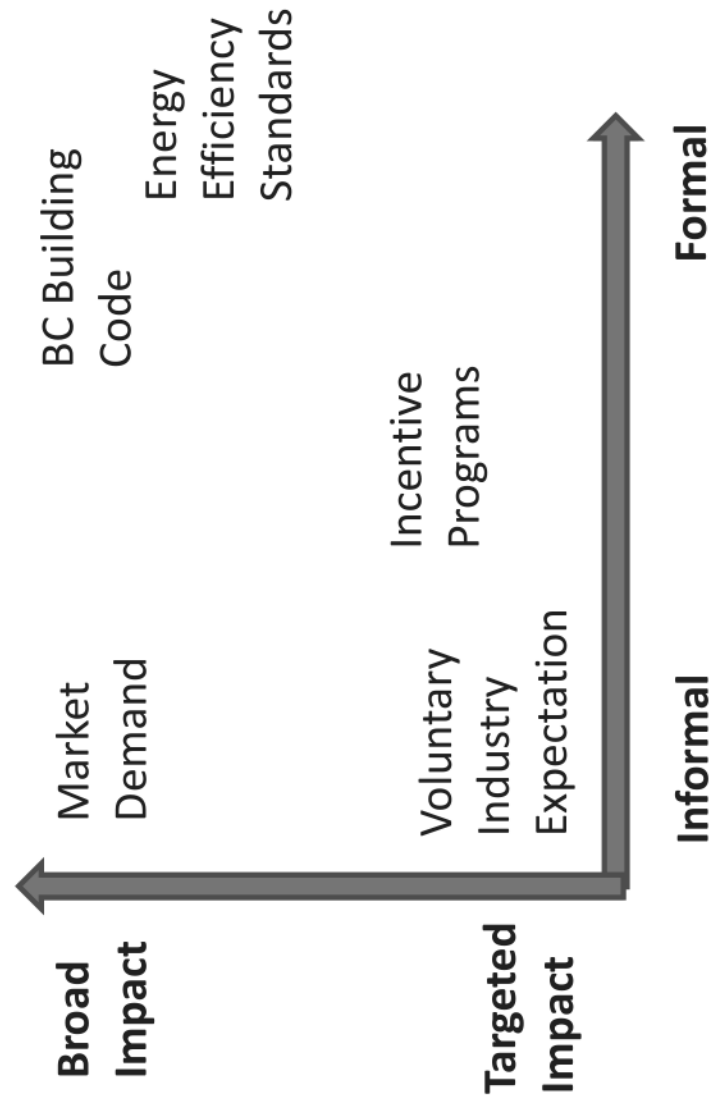
BRITISH
COLUMBIA



Building Lifespan



Policies and Programs





Clear Minimum
Standards

Action Beyond
Minimum Standards

Information and
Innovation

Coordinated Leadership

Cottier, Anna OHCS:EX

From: Pape-Salmon, Andrew OHCS:EX
Sent: October 4, 2017 10:26 AM
To: Corpe, Cimarron OHCS:EX; May, Zachary OHCS:EX; Andersson, Dale OHCS:EX; Robyn Wark
Cc: Steves, Gregory OHCS:EX
Subject: QUEST-2017

We are a finalist for the QUEST Smart Energy Communities award:

<http://www.questcanada.org/blog/2017/10/2017-smart-energy-communities-awards-finalists>

They will be presented at QUEST-2017 in Ottawa:

<http://www.questcanada.org/events-projects/quest2017>

s.13;s.17 , I would like to send a representative.

Not sure if we will win – we are competing with Joe Van Bellingham 😊

Cimarron, are you available? Robyn, are you attending?

Cheers,

*Andrew Pape-Salmon | P.Eng., MRM, FCAE
Executive Director, Building and Safety Standards Branch
Office of Housing and Construction Standards
Ministry of Municipal Affairs and Housing
Cell/Text: 250.812.1933
Tel: 250.387.3133
Email: Andrew.PapeSalmon@gov.bc.ca*

Please see our website: www.gov.bc.ca/buildingcodes

Cottier, Anna OHCS:EX

From: May, Zachary OHCS:EX
Sent: June 12, 2018 7:17 PM
To: 'Helen Platis'; Pape-Salmon, Andrew OHCS:EX
Cc: Julie Bunker
Subject: RE: Introduction and meeting request

Hi Helen,

I would love to meet, but I'm fully subscribed tomorrow in Vancouver with meetings in the morning and a walking tour of Passive House buildings in the afternoon.

Best,

Zachary D. May, MBA

Director, Building Codes and Standards

Building and Safety Standards Branch | Ministry of Municipal Affairs and Housing
Phone: 778-679-9641 | Email: zachary.may@gov.bc.ca

From: Helen Platis [mailto:hplatis@questcanada.org]
Sent: June 12, 2018 3:35 PM
To: May, Zachary OHCS:EX; Pape-Salmon, Andrew OHCS:EX
Cc: Julie Bunker
Subject: Re: Introduction and meeting request

Andrew, the local caucus was one of the subjeifvovf discussion. Perhaps we can arrange a call instead.

Zachary, do you have time to meet myself and Julie tomorrow? We are downtown at the convention centre but can come find you at a location more convenient for your meetings.

Thank you.

On Tue, Jun 12, 2018 at 1:17 PM Pape-Salmon, Andrew OHCS:EX <Andrew.PapeSalmon@gov.bc.ca> wrote:

Nice to hear from you and glad to meet you Helen and Julie.

I won't be in the Lower Mainland this week, but Zachary is coming to Vancouver tomorrow for Energy Step Code Council. I am not sure what is schedule is like.

Is the BC Caucus still active? If so, please let me know when the next discussion is planned.

Cheers,

Andrew Pape-Salmon | P.Eng., MRM, FCAE, FCSSE

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Email: Andrew.PapeSalmon@gov.bc.ca<<mailto:Andrew.PapeSalmon@gov.bc.ca>>

Please see our website: www.gov.bc.ca/buildingcodes<<http://www.gov.bc.ca/buildingcodes>>

From: Tonja Leach <tleach@questcanada.org>
Sent: Tuesday, June 12, 2018 11:59 AM
To: Pape-Salmon, Andrew OHCS:EX
Cc: Helen Platis; Julie Bunker
Subject: Introduction and meeting request

Andrew,

I hope all is well with both of you!

I am reaching out today because two of my colleagues - Helen Platis, Director, Client Services and Julie Bunker, Senior Lead, Western Services are in Vancouver for the next few days and would like to meet with you if you happen to be on the mainland.

Helen has been with QUEST since October of 2017 but hasn't yet had a chance to meet with you in person and Julie is new to QUEST, effective this week, and is responsible for overseeing our Western region activities and would benefit from meeting with you to better understand the priorities of the Government of BC.

Both Julie and Helen are cc'd on this email. If you are able to carve out some time to meet with them they would appreciate it and if not this trip perhaps a following trip.

Thank you,
Tonja

Tonja Leach

Managing Director, Operations & Services | QUEST
[350 Albert St. Suite 1220 | Ottawa ON | K1R 1A4](#)

T: 866-494-2770 *706 W: [questcanada.org](http://www.questcanada.org)<<http://www.questcanada.org>>g E:
tleach@questcanada.org<<mailto:tleach@questcanada.org>>

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ender notified by
Mailtrack<https://mailtrack.io?utm_source=gmail&utm_medium=signature&utm_campaign=signaturevirality5&> 06/12/18, 2:58:03 PM

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Helen Platis
Client Services | QUEST

8 King Street East Suite 910 | Toronto ON | M5C 1B5

C: 416 258-9451 T: 866-494-2770 ext 708

E: hplatis@questcanada.org

Cottier, Anna OHCS:EX

From: Pape-Salmon, Andrew OHCS:EX
Sent: June 12, 2018 1:17 PM
To: Tonja Leach
Cc: Helen Platis; Julie Bunker; May, Zachary OHCS:EX
Subject: Re: Introduction and meeting request

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Thank you,
Tonja

4-10
10-10-10

Cottier, Anna OHCS:EX

From: Helen Platis <hplatis@questcanada.org>
Sent: June 13, 2018 5:43 AM
To: May, Zachary OHCS:EX
Cc: Julie Bunker; Pape-Salmon, Andrew OHCS:EX
Subject: Re: Introduction and meeting request

We will provide more advanced notice for our next visit. Thank you.

On Tue, Jun 12, 2018 at 7:17 PM May, Zachary OHCS:EX <Zachary.May@gov.bc.ca> wrote:

Hi Helen,

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Best,

Zachary D. May, MBA

Director, Building Codes and Standards

Building and Safety Standards Branch | Ministry of Municipal Affairs and Housing

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Thank you,
Tonja

Tonja Leach

Managing Director, Operations & Services | QUEST
350 Albert St. Suite 1220 | Ottawa ON | K1R 1A4

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Mailtrack<https://mailtrack.io?utm_source=google&utm_medium=signature&utm_campaign=signaturevirality5&>
06/12/18, 2:58:03 PM

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Helen Platis
Client Services | QUEST

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Helen Platis
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From: Sustainable Communities <SustainableCommunities@bchydro.com>
Sent: September 14, 2018 10:26 AM
To: Sustainable Communities
Subject: UBC Sustainability Scholars Conference

Hello Sustainable Communities Associates,

You are invited to the UBC Sustainability Scholars Conference, taking place on **Thursday, September 27th**!

The UBC Sustainability Scholars program provides internships for UBC graduate-level students, offering them unique opportunities to collaborate and gain valuable experience within various organizations including local governments.

BC Hydro's Sustainable Communities program offers funding for eligible local governments to retain these students to help advance community energy and climate action research projects and organizational sustainability goals.

Many of these Scholars presented on their projects at the CEMx workshop this past June, and now that these projects have wrapped up, Scholars will be presenting on their findings and outcomes at the UBC Sustainability Scholar Conference, where our very own Robyn Wark is the keynote speaker!

Please join us in celebrating and showing support for these Scholars and their work! Come learn more about the projects and perhaps get ideas for projects your local government or organization can undertake with a Scholar!

Please see conference details below.

Conference | RESEARCH TO ACTION: ADVANCING URBAN SUSTAINABILITY

When: Thursday, September 27, 1:00 PM - 5:00 PM

Where: UBC Centre for Interactive Research on Sustainability (CIRS), 2260 West Mall, UBC

Registration: Free to all. Registration closes September 25. [Click here to register](#)

RESEARCH TO ACTION: ADVANCING URBAN SUSTAINABILITY

What happens when you give bright and engaged students real-world sustainability problems to solve?

UBC Sustainability and Greenest City Scholars are helping to make real change in the world. Join us on September 27 to learn more about what our local governments and institutions are doing to future-proof our people, our cities, and our urban spaces.

You will enjoy an afternoon of engaged discussion on a diverse range of applied sustainability projects produced by UBC graduate students in collaboration with community partners including the City of Vancouver, Metro Vancouver, BC Hydro, local governments, and UBC departments.

Scholars will present their projects in concurrent themed panel sessions throughout the afternoon. Panels will be moderated by experts from UBC and Sustainability Scholars Program partners.

Keynote speaker: Robyn Wark, Sustainable Communities Program, BC Hydro

Robyn Wark (MRM, MCIP) is Team Lead of BC Hydro's Sustainable Communities program, which runs the Community Energy Manager network in British Columbia. She sits on numerous boards and committees, including the BC Energy Step Code Council (Vice-Chair), Community Energy Association Board, and QUEST BC (Vice-Chair). Having worked as a consultant, local government planner, and educator, Robyn has a deep understanding of sustainability program design, energy efficiency market trends, and policy and incentive opportunities. Her work has won multiple awards from associations such as the Federation of Canadian Municipalities, the Canadian Institute of Planners, and the Planning Institute of British Columbia (PIBC). In 2013, she was awarded the PIBC Individual Award for Leadership in Advocacy & Innovation.

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EVENT SCHEDULE

TIME	ACTIVITY	DURATION	LEAD
7:30	Doors open + breakfast is served	25	-
7:55	UDI introductions	2	Jeff Fisher
7:57	Sponsor remarks	3	Smartforme
8:00	Panel introductions	3	Jonathan Meads
8:03	1st speaker	5	Andrew Pape-Salmon
8:08	2nd speaker	5	Patrick Enright
8:13	3rd speaker	5	Goran Ostojic
8:18	4th speaker	5	Roger Bayley
8:23	Q+A w/ moderator + audience	45	Panel
9:08	Closing remarks + thank you	2	Jonathan Meads
9:10	Seminar end	0	-

PANEL QUESTIONS

1. How is will the energy step code, BCBC, and CoV accommodate: (A) district energy (DE) systems (low carbon and natural gas), and (B) situations where a developer pursues a low carbon energy system?

BCBC and Step Code are fuel neutral, with the exception of ASHRAE 90.1 whereby performance path is based on energy cost, not energy consumption. We are not planning on referencing ASHRAE in the step code.

Fuel choice sits with the owner. Important to be aware of the costs. FortisBC Home Energy Calculator.

The climate leadership plan supports use of a number of low-carbon fuels including Renewable Natural Gas. Suppliers include: Salmon Arm Landfill, Fraser Valley biogas (agriculture – 900 homes), Glenmore landfill (Kelowna) and Seabreeze Farm (Delta, 800 homes).

The Plan also include efficient electrification.

Waste to resource strategy

Making our buildings fuel neutral – hydronic heating with radiant

2. How will BCBC work with BCUC requirements? How do we sunken assets?

Which aspect of BCUC?

3. Can you speak to the time frames for the energy step code? What do you anticipate for best practices?

Timeframe

UDI BREAKFAST SEMINAR

"Future of Residential Energy Systems"

February 8, 2017

- Regulation
 - Best Practices Guide
 - Advisory Committee for subsequent work
 - Community consultations.
 -
4. If you're in a DE zone, what are developers' options to pursue other systems? E.g.: passive house and other renewable energy systems
 5. We accept that the municipalities which currently have green building requirements will be transitioned by December 15th, 2017. What are you expectation for other municipalities that have not established green emission targets?
 6. What are the implications for developers when they are planning for their project's disclosure statements and marketing strategies?

Give consumers choices

7. CoV is requiring annual reporting of energy info for each building. What are you doing with the data and how will privacy be protected?
8. Would developers and municipalities be open to these alternative approaches? What are the challenges and opportunities? How will it be operationalized by the city and Province?
9. What is an appropriate 3rd party distributor? How is this reflected in the Disclosure Statement?
10. Does EV infrastructure contribute to the energy targets?
11. What is happening in tech research on emerging applications that we should consider for the future (5-10-15 years from now) to meet the goals of CoV, government and other municipalities?
12. How does the City propose to address the consumer requirement for cooling given the significant increase in consumer cooling demand arising from climate change? Do passive house buildings need cooling?
13. How important is it to the engineering community to keep our policies "flexible"?
14. How do you anticipate to adapt Character Homes under the recent renewable city strategy? Would it not be better to redevelop these homes?
15. What is the impact of metering? And will the City adjust its targets if a developer pursues a robust metering program?

BIOS

ANDREW PAPE-SALMON

Andrew is a strategic leader in the development of climate leadership and clean energy policies, programs and regulations for all levels of government and energy utilities. As a professional engineer and economist, he has performed analysis and developed business cases for technologies, systems, building designs, management and occupant engagement practices to lower greenhouse gas emissions and improve affordability and productivity across various sectors of the economy.

PATRICK ENRIGHT

GORAN OSTOJIC

Goran has over 25 years of experience working as an engineer and energy consultant and is recognized as a global player in energy efficiency and sustainable building design. He has been responsible for many

UDI BREAKFAST SEMINAR

"Future of Residential Energy Systems"

February 8, 2017

innovative projects in energy efficient design and analysis including pioneering the use of such unique systems as radiant cooling systems, capillary radiant systems, variable refrigerant flow and displacement ventilation. Goran embraces a global perspective to extend the usefulness of conventional sustainable applications beyond the current practice.

ROGER BAYLEY

Roger is a strong advocate for sustainable building practices, and has extensive experience as a Green Building leader and educator at conferences on the national and international scale. He is the principal of Roger Bayley Inc., which he founded in 2009 with the aim of harnessing the skills of forward-thinking developers, planners, architects and visionaries to create innovative green buildings and master-planned communities.

Cottier, Anna OHCS:EX

From: Sheldon, Ted W EMPR:EX
Sent: October 19, 2017 7:24 AM
To: Mohareb, Adrian OHCS:EX; May, Zachary OHCS:EX
Subject: FW: And the Finalists are...Energy Step Code Council

Congrats to the Council, and those provincial reps supporting them! 😊

Have fun with CAS today, Zach.

Ted

From: Brent Gilmour [mailto:bgilmour=questcanada.org@mail152.suw101.mcdlv.net] **On Behalf Of** Brent Gilmour
Sent: Tuesday, October 3, 2017 8:14 AM
To: Sheldon, Ted W MEM:EX
Subject: And the Finalists are...



2017 Smart Energy Communities Awards Finalists

QUEST is excited to announce the finalists for the 2017 Smart Energy Communities Awards, which will be presented at QUEST's 11th Annual Conference and Tradeshow – Smart Energy Communities on the Hill, taking place November 6-8 at Delta Ottawa.

The Smart Energy Communities Awards are presented annually by QUEST to recognize leadership and innovation in advancing Smart Energy Communities in Canada. Smart Energy Communities improve energy efficiency, enhance reliability, cut costs, and reduce greenhouse gas emissions.

“Congratulations to all the well-deserved finalists,” said Brent Gilmour, Executive Director at QUEST. “We look forward to presenting these awards to the winners who have contributed greatly to the advancement and growth of Smart Energy Communities.”

The Awards are presented in three principal Smart Energy Communities sectors: (1) Local Public Service Sector, (2) Real Estate Sector and (3) Utility and Energy Service Providers. The three finalists in each category in alphabetical order are:

LOCAL PUBLIC SERVICE SECTOR:

- **City of Richmond** for the Alexandra District Energy Utility - a sustainable energy system.
- **City of Saint John** for the Municipal Energy Efficiency Program - the first integrated energy management system in Atlantic Canada.
- **Government of Yukon** for the biomass district heating system in the community of Teslin, Yukon.
- **YHC Environnement** for the SAUVÉR public transportation concept - an electrification of transport in Canada.

REAL ESTATE SECTOR:

- **Energy Step Code Council** for the BC Energy Step Code - a new provincial standard that provides an incremental and consistent approach to achieving more energy-efficient buildings.
- **s2e Technologies Inc.** for West5 - a 70 acre community with ~2.5 million square feet of mixed-use buildings master planned to achieve net-zero energy on a community scale.
- **Windmill Development Group** for Zibi - Canada's first carbon-neutral master-planned community re-development project.

UTILITY & ENERGY SERVICE PROVIDER:

- **Alectra, Inc.** for the POWER.HOUSE pilot - Canada's first virtual power plant.
- **Saint John Energy** for the installation of Energy Star Most Efficient mini split ductless heat pumps.
- **Oshawa Power and Utilities** for the Solar Energy Management System.

Come and celebrate the leadership of the QUEST Smart Energy Communities Awards winners with us, [register](#) for QUEST2017 today!

Brent Gilmour

Executive Director - QUEST

$\mathcal{H}_1 = \{ \mathbf{h}_1, \mathbf{h}_2, \dots, \mathbf{h}_M \}$ and $\mathcal{H}_2 = \{ \mathbf{h}_1, \mathbf{h}_2, \dots, \mathbf{h}_M \}$

$$\begin{aligned}
 & \mathbf{h}_1 = \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}, \mathbf{h}_2 = \begin{bmatrix} 0 \\ 1 \\ 0 \\ 0 \end{bmatrix}, \mathbf{h}_3 = \begin{bmatrix} 0 \\ 0 \\ 1 \\ 0 \end{bmatrix}, \mathbf{h}_4 = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 1 \end{bmatrix} \\
 & \mathbf{h}_5 = \begin{bmatrix} 1 \\ 1 \\ 1 \\ 1 \end{bmatrix}, \mathbf{h}_6 = \begin{bmatrix} 1 \\ 1 \\ 1 \\ 0 \end{bmatrix}, \mathbf{h}_7 = \begin{bmatrix} 1 \\ 1 \\ 0 \\ 1 \end{bmatrix}, \mathbf{h}_8 = \begin{bmatrix} 1 \\ 1 \\ 0 \\ 0 \end{bmatrix} \\
 & \mathbf{h}_9 = \begin{bmatrix} 1 \\ 0 \\ 1 \\ 1 \end{bmatrix}, \mathbf{h}_{10} = \begin{bmatrix} 1 \\ 0 \\ 1 \\ 0 \end{bmatrix}, \mathbf{h}_{11} = \begin{bmatrix} 1 \\ 0 \\ 0 \\ 1 \end{bmatrix}, \mathbf{h}_{12} = \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}
 \end{aligned}$$

$\mathbf{h}_1, \mathbf{h}_2, \dots, \mathbf{h}_M$ are the columns of the matrix \mathbf{H} and $\mathbf{h}_1, \mathbf{h}_2, \dots, \mathbf{h}_M$ are the columns of the matrix \mathbf{H}

Cottier, Anna OHCS:EX

From: Nicol, Lee A OHCS:EX
Sent: May 3, 2016 9:26 AM
To: Mohareb, Adrian OHCS:EX
Subject: FW: Community Energy Association - Interest in Member Meetings
Attachments: CEA Intro 20160420.pdf; 2016q1a member update.pdf

Interested? Zac will be declining but it would be valuable for someone from the Branch to participate...

LEE NICOL | A/Director, Policy and Code Development
Building and Safety Standards Branch
Phone: 250-812-5760

From: May, Zachary OHCS:EX
Sent: Monday, May 2, 2016 8:58 PM
To: Nicol, Lee A OHCS:EX
Subject: FW: Community Energy Association - Interest in Member Meetings

Further to our discussion this morning on saying 'no'. I have let Dave know I'm not available to make new commitments for the next few months, but said I would raise this with others on the climate file in case there's interest/capacity.

Cheers,

Zachary D. May, MBA
Compliance Advisor – Energy
Senior Codes Administrator

Building and Safety Standards Branch | Office of Housing and Construction Standards
Phone: 778-679-9641 | Email: zachary.may@gov.bc.ca

Looking for resources for Energy Efficiency requirements in the BC Building Code? Visit our new Energy Efficiency website!

From: dale littlejohn [<mailto:dlittlejohn@communityenergy.bc.ca>]
Sent: April 25, 2016 7:13 PM
To: May, Zachary OHCS:EX
Cc: Finkelstein, Ben ENV:EX; Sheldon, Ted W MEM:EX
Subject: Community Energy Association - Interest in Member Meetings

Zack;

PLEASE reply and let me know if you or someone from your ministry / branch would be interested in participating.

Given the work you are doing on stretch/reach code and its implications on climate action and communities CEA's members interest in provincial participation, CEA is **inviting you to participate on an ex-officio basis at CEA member meetings**. CEA member meetings are held quarterly for 2 hours in person with **conference calling** available for those in other locations.

We are reserving space around the CEA table for 1-2 representatives from each of the relevant ministries (mcd, env, mem, jti, buildings branch, ...). The next CEA member meeting is 10am-11:30am on May 24.

Ben and Ted (currently and formerly) have participated as provincial representatives to CEA's board and members. **FAQ's** are below and a **PDF overview** / re-introduction is attached along with our **2016 Q1 member update**.

FAQ

- **How is CEA organized?** CEA was formed by an **MOU between the Ministries of Energy and Community and UBCM** in 1995 as the Energy Aware Committee. The Energy Aware Committee incorporated into a non-profit under the Community Energy Association name in 2004. CEA has charitable status. CEA's members are organizations (like BC Hydro, BC Transit, Translink, local governments, private sector, etc) which appoint individuals to be the organizational representative to CEA from whom a Board of Directors is elected to govern the business of CEA. CEA has 8 staff spread across BC.
- **What does CEA do?** CEA is the trusted independent advisor to local governments on climate and energy. CEA accelerates local action on climate through research (available on our website), projects (over 55 community energy and emissions plans), recognition (Climate and Energy Action Awards presented by a Minister at UBCM annually), and collaboration (BC Mayors Climate Leadership Council, QUEST-BC).
- **How can CEA help me?** CEA is a permanent table for inter-governmental and cross-sector collaboration on climate action. CEA brings together 25 members including local government, utilities, transit providers, and private sector in a collaborative environment.
- **What are some of CEA's current projects?** BC Mayors Climate Leadership Council, RDEK Shared Community Energy Manager, BC Hydro & Fortis BC CEEP development & implementation & re-booting plans for local governments, national Getting to Implementation project (how to move from plans to action & what provincial / territorial approaches have been effective at generating local action) with QUEST, Solution Tables for senior cross-sectoral input in CLP and identification of local collaborative actions, change-makers webinar series for members on how change happens in local government and communities.
- **Why now for the invite?** CEA has been considering this for some time. We used to have representation from multiple ministries. With the renewed provincial interest in climate and the important role for local governments in achieving climate targets, CEA members see value in multiple ministries re-engaging around the CEA table.
- **What is expected of me?** As an ex-officio attendee at CEA member meetings, you are encouraged to: attend the meetings (2 hours 4 X per year = 8 hours/year) and provide a brief (1-3 minute) update on actions in your ministry over the last quarter and anything that is coming up that CEA members should be aware of, and contribute productively to discussions. You will also receive the CEA quarterly member update that provides an overview of CEA activities in the last quarter. We encourage you to share this with other staff in the ministry who are interested in this topic.
- **Is there a cost?** No. All members of CEA pay a membership fee or provide in-kind support. We are not asking for ministries to become members at this time. CEA wants you involved because we believe that you belong around the CEA table.

...Dale.

Dale Littlejohn, CCEM, Executive Director, Community Energy Association
www.communityenergy.bc.ca dlittlejohn@communityenergy.bc.ca

T: 604-628-7076 C: 604-785-5130

QUALIFY TO BECOME A CERTIFIED COMMUNITY ENERGY MANAGER: VISIT WWW.COMMUNITYENERGY.BC.CA/EDU TO REGISTER

Dale Littlejohn, CCEM, Executive Director, Community Energy Association
www.communityenergy.bc.ca dlittlejohn@communityenergy.bc.ca

T: 604-628-7076 C: 604-785-5130

QUALIFY TO BECOME A CERTIFIED COMMUNITY ENERGY MANAGER: VISIT WWW.COMMUNITYENERGY.BC.CA/EDU TO REGISTER

Community Energy Association | 2016 Q1 Update

EDUCATION

CERTIFICATE IN COMMUNITY ENERGY MANAGEMENT: CEA's first year of the Certificate in Community Energy Management (2015) is complete and students are preparing to write the certification exam. CEA has partnered with the **BC Institute of Technology** to deliver the 2016 program and the first course – Introduction to Community Energy Management is underway. Sixteen students have registered for the course. This on-line professional development certificate program includes guidance on district energy & heat systems, planning for electric vehicle charging infrastructure, energy and emissions planning for small communities, investment in and governance of green energy systems, green energy and local economic development, community energy dieting, and more. For more information, see www.communityenergy.bc.ca/edu.

CEA Workshops & Events: January through April 2016, CEA is hosting 18 events and training workshops as well as collaborating with QUEST on organizing the Energy Symposium in Metro. These events include 6 peer-learning workshops for locally elected officials, three cross-sectoral 'solution tables' to identify specific local issues and provide input into the climate leadership plan, five day-long workshops for builders on building code energy efficiency provisions, performance vs prescriptive paths for part-9, and energy-star for new homes. Three community energy and emissions plans are also included in the early 2016 events.

Event	RDKB SCEEP	Calgary GTI	Symposium	BCMCLC LGLA Session	Kelowna New Home	Kelowna Solutions Table	Nelson Solution Table	PG New Home	Dawson Creek New Home	RDKB Mega SCEEP	Nanaimo Solutions Table	Campbell River Workshop	Cranbrook New Home - Tech & Policy	Grand Forks SCEEP	AVICC BCMCLC	SILGA BCMCLC	AKBLG BCMCLC	NCLGA BCMCLC	LMLGA BCMCLC
Date	20-Jan	27-Jan	28-Jan	05-Feb	09-Feb	10-Feb	11-Feb	16-Feb	17/18 - Feb	19-Feb	03-Mar	2 or 4 Mar	02-Mar	08-Mar	10-Apr	22-Apr	29-Apr	06-May	13-May
Location	Trail	Calgary	New West	Richmond	Kelowna	Kelowna	Nelson	Prince George	Dawson Creek	Nelson	Nanaimo	Campbell River	Cranbrook	Grand Forks	Nanaimo	Kelowna	Kimberley	Dawson Creek	Whistler
Confirmed	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	No	No	Yes	yes	yes	yes	yes	yes
Dale			Yes	Yes			Yes			yes	Yes	Yes	?		?	yes	yes		?
Jane		yes																	?
Pat			yes																
Trish	Yes						Yes			Yes			?	Yes					
Peter	Yes					Yes	Yes					Yes		Yes	?	?			
David				Yes	Yes	Yes		Yes	Yes		?	?	?		Yes	Yes		Yes	?
Megan							?			Yes			Yes				Yes	?	

PROJECTS

RDEK Community Energy Manager (CEM3)

After a successful Q1, getting out to every community and presenting to all 8 municipal Councils, Megan has been forging ahead with some exciting initiatives in the East Kootenay. It is clear that the work completed through Carbon Neutral Kootenay and the BC Hydro CEEP QuickStart program provided the background necessary for community to move ahead on energy and emission saving initiatives.

The focus of CEM3 Q2 has been on electric vehicle charging stations, organic waste diversion and builder education and awareness.

Megan is working with the RDEK to develop a strategy for the deployment of an electric vehicle charging station network in the East Kootenay. She is working closely with BC Hydro to identify potential funding sources, and with BCIT to model the charging station locations in order to optimize co-benefits.

A pilot organics diversion program is being developed for the East Kootenay, with assistance in the design of that program through CEM. It is expected that a plan will be in place by Spring 2016 and roll out shortly after that.

BC Hydro CEEP QuickStart

Having completed 43 Community Energy & Emissions Plans (CEEPs) through the CEEP QuickStart program (1 out of every 5 CEEP's completed in all of Canada), CEA is continuing to help small and mid-sized communities in the BC Hydro area with implementation, including:

- Support with implementing innovative planning & policy measures on energy efficiency in buildings (see the following description of the NRCAN policy work)
- Providing learning opportunities for local government staff and a peer-to-peer staff learning network through the Community of Practice (see the CEEP QuickStart webinars under presentations and outreach)
- Being the local government portal for access to PowerSmart energy efficiency program materials

<p>There continues to be a focus on improving the education and awareness of builders and contractors of EnergyStar, EnerGuide and Part 9.36 of the BC Building Code. Megan is helping to facilitate an education session on March 2nd in Cranbrook.</p>	
<p>NRCAN POLICY WORK:</p> <p>At NRCan's request, CEA prepared and submitted a proposal to help BC local governments implement planning and policy measures that will help to advance energy efficiency in new and existing buildings. CEA started work on this short but intensive project in October, due to be completed by March 31 2016. To date, CEA has been supporting the following communities (note that there is overlap between the CEEP QuickStart policy support and the SCEEPs in the Kootenays): Duncan, Cowichan Valley Regional District, Campbell River, Qualicum Beach, Dawson Creek, Prince George, Rossland, Creston, Castlegar, Montrose, Nelson, Penticton, Kelowna, Victoria, District of Saanich, and North Cowichan. CEA is supporting them with policy tools including development cost charge reductions, home energy labelling, permit fee rebates, finding opportunities in the zoning bylaw, and sustainability checklists. CEA is also supporting them with education of community stakeholders. CEA's notable policy successes with this project to date are: the City of Duncan's sustainability checklist tied to a DCC reduction, drafting home energy labelling policy for Victoria, and drafting density bonus policy for single family homes for Campbell River. Notable education successes to date include: two policy webinars (sustainability checklists & the utility New Home program), and three education workshops for builders and building officials in Kelowna (approx 50 attendees), Prince George (approx 60 attendees), and Dawson Creek (approx 15 attendees). Planned educational events include a realtor energy efficiency education workshop in Nelson, and builder education workshops in Cranbrook and Campbell River. After March 31, ongoing policy support will continue for many communities through CEEP QuickStart implementation, SCEEPs, and the East Kootenay Community Energy Manager projects.</p>	<p>STRATEGIC COMMUNITY ENERGY & EMISSIONS PLANNING (SCEEP) IN THE WEST KOOTENAYS:</p> <p>It has been a busy quarter delivering many 'SCEEPs' in the West Kootenay to FortisBC service area communities. The participation and engagement in the sessions has been excellent.</p> <p>Just recently, on February 19th, Dale, Trish and Megan facilitated a "mega-SCEEP" with the Regional District of Central Kootenay and all member municipalities and electoral areas. The intent was to integrate the SCEEPs that had been completed in individual communities into a larger, regional energy plan, and to identify opportunities for collaborative action, sub-regionally or region-wide. Over 36 people participated in the day, including representation from Interior Health, Ministry of Transportation, CBT, and many more.</p> <p>Some exciting priorities came out of the session, including a desire to see a renewable energy scan completed for the region, an identified need for an inventory that identifies how and where people move throughout the region (transit, roads and active transportation) and the need for a coordinated approach to managing the regional priorities.</p> <p>CEA will be providing implementation support to all communities that have completed SCEEPs.</p>
<p>CBT: CLIMATE RESILIENCE PROGRAM DEVELOPMENT: CEA has completed the final detailed design phase of program development for the Trust's adaptation and mitigation offer to communities in the Columbia Basin (Valemount to Rossland). The final design proposed a variety of potential activities for communities in the Basin, which included research, education, project support (individual communities and regional collaboration) and monitoring. The plan has been presented to the CBT board and CEA is waiting to hear on next steps.</p>	<p>CITY OF COQUITLAM CEEP OPERATIONALIZATION: Coquitlam has hired CEA to help them determine the status of actions detailed in the CEEP that was conducted several years ago, build buy-in across departments for specific initiatives over the next two to three years and a process for ongoing refreshing of the tactical / operational plan for the CEEP. Staff have completed document review and staff interviews and will design and deliver a senior manager workshop in the first half of March. Thanks to BC Hydro for their contribution towards this project.</p>

Abbotsford Corporate Carbon Neutral Action Plan for Buildings

CEA has a minor role in a project with SES Consulting to look at the energy efficiency of City of Abbotsford buildings.

Getting to Implementation

The research phase for this **national 3-year \$1.1 million project** is nearing completion. The draft implementation framework was reviewed at several break-out sessions at the QUEST conference in Toronto by multiple stakeholders. The Francophone coordinator has been contracted. Work has begun on accelerating implementation with the three pilot communities of Campbell River, Calgary and Waterloo. CEA attended a meeting with the City of Calgary to discuss CEEP implementation. CEA has also presented to 3 committees of the City of Campbell River, and attended more than a full day of meetings with City staff.

SEE MORE AT <http://gettingtoimplementation.ca/pilotcommunities/>

As part of this project, CEA staff provided research and policy recommendations to support Stephanie Cairns (Sustainable Prosperity) in her role as a member of Alberta's Climate Change Advisory Panel.

NRCan Policy Efficacy Research:

CEA along with Quest Canada has been conducting a review of policies that help lead to developing Community Energy Plans. The research looked at all provinces and territories and identified that BC, NWT and ON were the most successful in developing CEP's and that having energy use data was one of the most important factors. The initial report has been completed and the final draft is expected to be going to NRCan (the primary funder) in Early March.

BC Mayors Climate Leadership Council:

CEA is still actively recruiting a small number of new members to the BCMCLC team as we ramp up 2016 activities. On Feb. 5th, 2016 we delivered a peer learning workshop at LGLA. There were over 20 attendees from a variety of local governments but primarily smaller LG but from across the province. The session included a brief energy literacy overview followed by a breakout session identifying local success and barriers followed by a second round of breakout where participants could self select on topics of interest. We are starting to work with the 5 UBCM regional associations to hold additional learning sessions in April / May. The goal of these sessions will be to educate attendees on putting forward the climate agenda at the council table, staff level and community at large. This will be followed by an in-depth training day in fall 2016.

CEA is also drafting up a template document that can be used by BCMCLC members and others to submit a response to the current consultation being held by the Province of BC. The consultation closes March 25.

Haines Junction Community Energy & Emissions Inventory

CEA's second piece of work in the Yukon has begun. CEA is helping the Yukon Government's Climate Change Secretariat with developing a community energy & emissions inventory for the community of Haines Junction. CEA is advising the Secretariat on what information is needed, and the Secretariat is chasing the data. CEA is also developing guidance for the Secretariat so it can develop its inventories in-house in future. The project is due to be completed by March 31 2016.

Climate & Energy Action Awards: CEA has started the fundraising stage of the 2016 awards program. Funds have been requested from BC Hydro, FortisBC, and various ministries of the provincial government. UBCM offers in-kind funding each year.

BC Manitoba research: CEA is conducting research into correlations in public datasets to determine if there are linkages at the community level between per-capita energy and emissions, linear km of roads, cost of local government, taxable area, and other indicators in both BC and Manitoba with funding from

<p>Thanks to BC Hydro for so quickly confirming their support this year.</p> <p>Awards will be presented at the Union of BC Municipalities Convention in September, 2016 in Victoria.</p> <p>If you would like to volunteer to be a member of the 2016 awards nomination committee, please advise Patricia Bell at pbell@communityenergy.bc.ca.</p>	<p>the Eco-Ouest project of the Francophone Economic Development Organizations in western Canada.</p>
<p>Kelly Lake First Nation CEEP/Energy Scan: CEA along with 2 others has responded to an RFP from the Kelly Lake First Nation to complete a CEEP and renewable energy scan as part of a proposal for funding under the BC FN clean Energy Funding program. The submission was done in late January. It is expected that the funding decision will be made by the province within 90 days. This project would generate 50k of revenue. Kelly Lake is located approx. 1 hr South of Dawson Creek. As a follow up to the proposal David Dubois was able to do some scouting of the community and meet with the Band's Chief while in Dawson Creek at the NRCan Builder Workshop in Dawson Creek.</p>	<p>Kitimat Stikine Bioenergy Project: CEA staff have been contacted and will be developing a workplan outlining a bioenergy/biofuels project. The project would include some initial scoping work, bioenergy technology market research, technology review and selection. The project would potentially have a number of steps over a 3-6 month period with revenue at each step depending on available funding.</p>
<p>QUEST Solutions Tables: CEA held solutions tables in both Kelowna and Nelson on February 10th and 11th respectively. The tables were well attended with 28 people attending Kelowna (a full house) and 20 in Nelson. The Province of BC and Pembina Institute provided an overview of the provincial government climate leadership and update from the energy efficiency working group. This was followed by discussions with the participants outlining potential submissions to the provincial government and state of climate change work in the local area. The attendees were a mix of LG staff, consultants, utilities and not for profits with some elected officials attending the Nelson session. The Nelson session also included extra discussion on adaptation. The final solution in this series is scheduled for Nanaimo on March 3.</p>	
<p>PRESENTATIONS AND OUTREACH</p>	
<p>Presentations and Workshops – CEA participated in or attended the following:</p> <ul style="list-style-type: none"> • CEEP QuickStart webinars: CEA held a webinar on January 13th on the FortisBC New Home program. • Building & building official education workshops: as part of the policy project for Natural Resources Canada and the BC Hydro CEEP QuickStart implementation work, CEA held 3 workshops for builders and building officials on building more energy efficient homes. Workshops included presentations on the utility New Home program, presentations by Murray Frank on meeting section 9.36 (the energy efficiency component) of the BC Building Code for homes, and a presentation by a Certified Energy Advisor. About 50 attendees were at Kelowna, 60 at Prince George, and 15 at Dawson Creek. Subsequent workshops will be at Cranbrook (March 2) and Campbell River (March 4). • GTI presentations and workshops at QUEST 2015: In collaboration with QUEST, CEA held presentations and workshops at QUEST 2015 in order to receive feedback on the Framework from local governments, developers, and utilities; and also to start designing a work plan for the three pilot communities, Campbell River, Calgary, and the Region of • Patricia Bell is participating in the Climate Leadership Plan Built Environment Stakeholder Engagement four-meeting series throughout January-February-March. • Patricia attended Quest's Annual Community Energy Forum in February and facilitated an afternoon session on community energy. • Patricia attend Real Estate Foundation of BC's Accelerating Progress Towards a Sustainable Built Environment Workshop in February. 	
<p>INSIDE CEA</p>	

CEA Inviting New Members: Community Energy Association invites new members to join the current 18 members. New members help expand CEA's reach, provide valuable insight and balance, and help sustain the organization financially.

New Computers: Staff received Leonovo computers to centralize and standardize operations. Filing system has been standardized and all files now located on dropbox. Some IT adjustments experienced and slowed down production for Q1, but efficiencies will be noted going forward.

Staff Risk Management: The Christmas holiday saw a number of serious medical incidents requiring an executive directive for staff to "...stay off ladders, avoid icy sidewalks, not drive too fast, etc.". To date staff have complied and all is well.



Community Energy
Association



Community Energy Association Overview

Dale Littlejohn

2016 – 04 – 19

www.communityenergy.bc.ca

CEA

- CEA Introduction & History
- CEA Activities
- CEA Membership Value





Community Energy
Association



Introduction & History

CEA Staff

- Senior team with extensive experience working with local governments.
- 2 planners and 1 engineer
- Geographic distribution across southern BC



- Dale Littlejohn, Executive Director since 2011, joined CEA in 2006 after 10 years of corporate strategy and technology strategy consulting with Deloitte including numerous projects with utilities and energy companies.





MEMORANDUM OF UNDERSTANDING
ON
PROMOTING LOCAL GOVERNMENT INVOLVEMENT IN
ENERGY CONSERVATION AND EFFICIENCY
AMONGST
THE MINISTRY OF MUNICIPAL AFFAIRS,
THE MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES
AND
THE UNION OF BRITISH COLUMBIA MUNICIPALITIES

General Principles:

The Government of British Columbia and the Union of British Columbia Municipalities wish to develop a greater awareness and understanding of energy conservation and efficiency issues, particularly as they involve local government. They recognize that local governments have an important role to play in creating energy efficient communities. Three current provincial government initiatives underscore the importance of this role: the Ministry of Municipal Affairs' Growth Strategies Initiative, implementation of the British Columbia Energy Council's Energy Strategy and the Ministry of Energy, Mines and Petroleum Resources' Energy Efficient Communities program.

The recently enacted *Growth Strategies Amendment Act* provides a list of goals for local government planning which includes "planning for energy supply and promoting efficient use, conservation and alternative forms of energy." The Province and the Union of British Columbia Municipalities recognize the necessity of providing resources to local governments to help them reach this goal. The Government's report on implementing the British Columbia Energy Council's Energy Strategy also supports local governments' role in a transition to energy sustainability. The Ministry of Energy, Mines and Petroleum Resources' recently launched Energy Efficient Communities program will work toward providing local governments with planning tools and information on energy efficiency, and alternative energy programs.

The Province and the UBCM agree that:

In order to develop greater awareness and understanding of energy conservation and efficiency issues as they involve local government, it will be useful:



- to develop a database of energy conservation issues affecting local government, ✓
- to identify opportunities and means to engage local governments in energy conservation, ✓
- to provide guidance to local governments on community energy planning, and
- to build relationships among local governments and major energy providers and utilities. ?

The Government, through the Ministry of Energy, Mines and Petroleum Resources in partnership with the Ministry of Municipal Affairs, will provide an amount of \$40,000 to the Union of British Columbia Municipalities in order that they can play an effective role in the initiation of those activities which may be necessary to achieve the established objectives. The expenditure of these funds will be governed by a more detailed work program.

DATED at Vancouver, British Columbia, Canada,
September 29, 1995.

SIGNED on behalf of the PROVINCE OF BRITISH COLUMBIA by:

The Honourable Darlene Marzari
Minister of Municipal Affairs

The Honourable Anna Edwards
Minister of Energy, Mines and Petroleum Resources

SIGNED on behalf of the UNION OF BRITISH COLUMBIA MUNICIPALITIES by:

Councilor Jeanne Monaghan
President

munit

CEA History

- 1995
 - Energy Aware Committee was formally created in 1995 through an MOU between 2 provincial ministries and Union of BC Municipalities
 - Original / founding members included BC Gas, BC Hydro, PIBC, UBCM, BC Transit and Translink among others
- 2004
 - Energy Aware Committee incorporated into a non-profit society as Community Energy Association
 - Shortly after, CEA obtained charitable status
 - Members remained the same
- 2008-2016
 - CEA increases its service delivery to communities across BC
 - CEA builds its membership



www.communityenergy.ca

Community Energy Association Members 2016



CREATIVENERGY



www.communityenergy.bc.ca



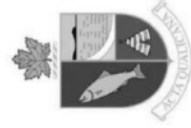
a place of mind
THE UNIVERSITY OF BRITISH COLUMBIA
sustainability



CASTLEGAR
happily ever after



CITY OF
PRINCE GEORGE



Community Energy Association Purpose

- CEA is charitable non-profit society
- CEA is the trusted independent advisor to local governments
- We are helping local governments close the implementation gap

Accelerate Climate Action with People and Projects

Awareness & Recognition

- Workshops & Presentations
- Research & Publications
- Collaboration
- Climate & Energy Action Awards

Projects

- Planning
- Implementation
- Technology Acceleration

www.communityenergy.bc.ca

CEA Members

- Chair: Darrell Mussatto
- Previous Chairs
 - **Mike Bernier**
 - Dan Rogers
- Vice Chair: Susan Haid
- Previous Vice Chairs
 - Victoria Smith
 - Richard White
- BC Hydro rep: Robyn Wark
- Other board members:
 - BC Transit,
 - Translink,
 - Dawson Creek,
 - New Westminster,
 - District of North Van,
 - Richmond,
 - UBCM.

	Organization	Primary Contact	Board
1	BC Hydro	Robyn Wark	Y
2	BC Transit	Stephen Brydon	Y
3	Burns Lake	Luke Strimbold Mayor	
4	Campbell River	Amber Zirnhelt	
5	Castlegar	John Malcolm	
6	Corix	Nick Capaldo	
7	Creative Energy	Stacey Bernier	
8	Dawson Creek	Clr Cheryl Schumann	Y
9	Metro Vancouver	Jason Emmert	
10	Nanaimo (City)	Bruce Joiner	
11	New Westminster	Mark Allison	Y
12	North Cowichan	Nancy Tates	
13	North Van City	Mayor Mussatto	Y
14	North Van District	Julie Pavey	Y
15	Prince George	Tiina Watt	
16	Province of BC*	Ben Finkelstein*	Ex-officio
17	Qualicum Beach	Luke Sales	
18	Richmond	Nick Heap	Y
19	RWPAS	Richard White	
20	Saanich	Mark boysen	
21	SES	Scott Sinclair	
22	Smithers	Taylor baccarac	
24	Surrey	Jeff Arason	
25	Translink	Repta, Dom	
26	UBCM	Marie Crawford	Y
27	University of British Columbia	Orion Henderson	Y
28	Vancouver	Susan Haid	Y



Community Energy
Association



Activities

Development Industry Related Activities

- > 50 **Community Energy Plans**
- **Solutions Tables**
- **Electric Vehicles**
- **District-energy Ready** policy work with 5 local governments
- **Several Renewable Energy Guide** volumes

The Current “Stanley Cup of Climate Action”



>70 Communities Served

~55 Community Energy Plans

~30 Carbon Neutral Plans

>30 Guides & Publications

www.communityenergy.bc.ca

Signature Projects

2009-2013 Carbon Neutral Kootenays

**2010-2015+ BC Mayors Climate Leadership
Council**

2010-2015+ CEEP Quickstart

**2013-2016+ Community Energy Planning in
Canada – Getting to Implementation!**

**2014-2015+ Certificate in Community Energy
Management**

www.communityenergy.bc.ca

COMMUNITY ENERGY PLANS & COMMUNITY OF PRACTICE

CARBON NEUTRAL ACTION PLANS

ENERGY DIETS



Certificate in Community Energy Management

LEARN AT YOUR
OWN PACE IN A
NATIONAL PEER
GROUP WITH
INSTRUCTOR
SUPPORT

180
LEARNING
HOURS

CEA MEMBERS
\$1,500
NON-MEMBERS
\$1,900

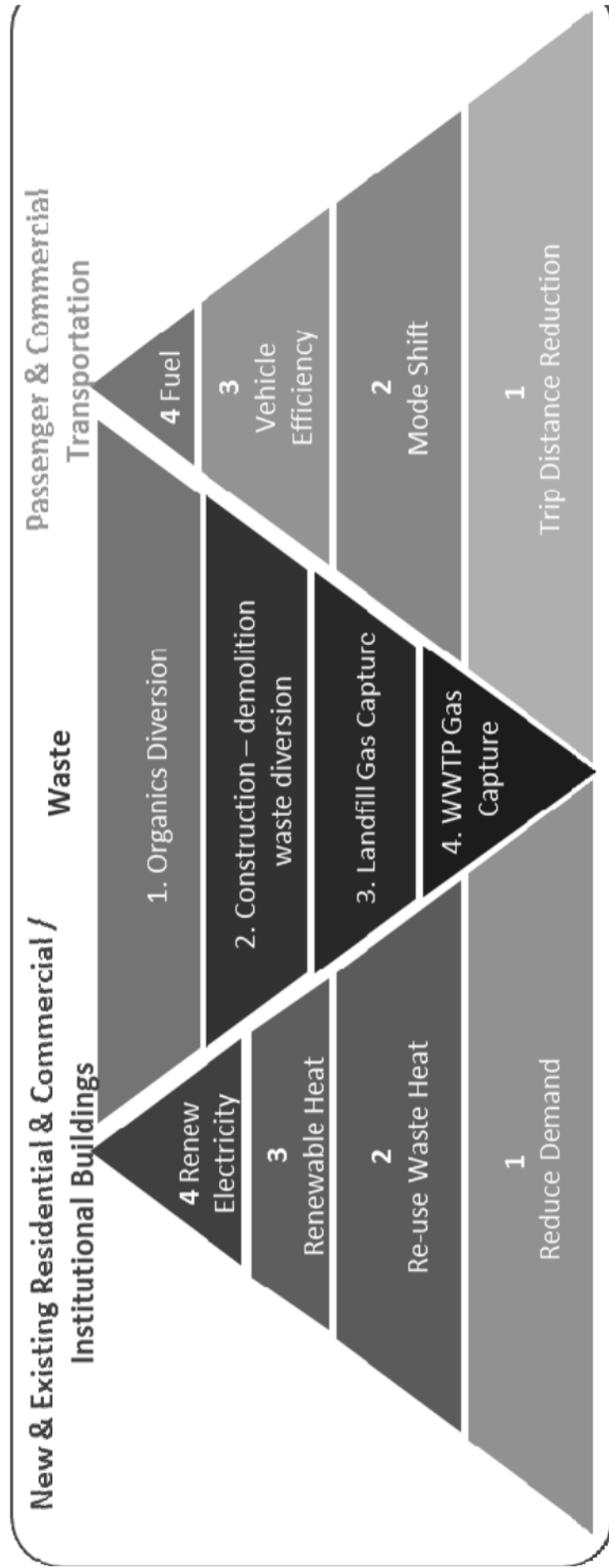
START DATE
JANUARY 2015
END DATE
DECEMBER
2015

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Strategies for Action

- Local governments influence energy and emissions in their communities by influencing buildings, waste, and transportation applying specific policy, regulatory, marketing, and financial tools across four strategies in each area.
- Start at the wide end of the pyramids where the costs are lowest and opportunities are usually the largest.

CEP Implementation Actions



www.communityenergy.bc.ca

Cottier, Anna OHCS:EX

From: Sheldon, Ted W EMPR:EX
Sent: November 7, 2017 1:21 PM
To: Mohareb, Adrian OHCS:EX
Subject: RE: B.C.'s New High-Performance Staircase (QUEST)

Follow Up Flag: Follow up
Due By: April 3, 2019 8:00 AM
Flag Status: Flagged

Fantastic, with thanks, Adrian. Wish Zach success.

Ted

From: Mohareb, Adrian OHCS:EX
Sent: Tuesday, November 7, 2017 10:58 AM
To: Sheldon, Ted W EMPR:EX
Subject: RE: B.C.'s New High-Performance Staircase (QUEST)

Hi Ted,

Zac will be presenting at that session in Abbotsford.

Cheers,

Adrian

From: Sheldon, Ted W EMPR:EX
Sent: Tuesday, November 7, 2017 9:57 AM
To: Mohareb, Adrian OHCS:EX
Subject: B.C.'s New High-Performance Staircase (QUEST)

Adrian, do you happen to know about the QUEST Step Code workshop planned (I believe) for Abbotsford.....Are you guys involved? Also, I'm looking at adding the following to my November 2017 Clean Energy and Communities Snapshot.....

"The BC Energy Step Code was profiled recently in an article by QUEST Canada, entitled "B.C.'s New High-Performance Staircase". As QUEST notes, "Energy efficiency is the first, and perhaps most fundamental, of the four pillars that underlie the Smart Energy Community model at the core of QUEST's mission."

The full 'draft' snapshot is below.....awaiting approval to send out.....

Ted

From: Sheldon, Ted W EMPR:EX
Sent: Monday, November 6, 2017 9:04 AM
To: Sheldon, Ted W EMPR:EX
Subject: Clean Energy and Communities - November 2017 Snapshot - draft for 'okay'

Clean Energy and Communities colleagues, the following is our November 'snapshot' of miscellaneous activities and documents that you might be interested in skimming. This time of the year is not surprisingly busy; this listing only capturing some of the many 'goings on'! The view below is different from previous Snapshots, taking more of a sectoral approach. Feel free to forward to any other colleagues that may have an interest in one or more of the following. If you know of relevant upcoming events or documents that you'd like other colleagues to know about, send coordinates (e.g., websites) to us and we'll try to include it in our next snapshot. If new recipients would like to check previous Clean Energy and Communities snapshots, email me at Ted.Sheldon@gov.bc.ca:

+++++

International Sustainability/Climate Action/Clean Energy Events:

- **November 6th – 17th, 2017** – The **2017 UN Climate Change Conference** (the Conference Of the Parties; **COP23**) is taking place at the World Conference Centre in Bonn, Germany, the seat of the UNFCCC secretariat. The focus at UN climate talks in Bonn next week will be on the "rules" governing the roll out of the Paris Agreement and the mechanisms intended to boost the ambition of countries around the globe. The discussion comes amid fresh warnings that current emissions mitigation is insufficient to avoid dangerous global warming (see [PICS Climate Examiner](#)).
- **March 14th – 16th, 2018** – Registration for **GLOBE Forum 2018 – The Leadership Summit for Sustainable Business** is now open. Established in 1990, the GLOBE Forum is North America's largest Leadership Summit for Sustainable Business, convening nearly 10,000 participants from more than 50 countries together in Vancouver. GLOBE Forum provides a platform for knowledge seekers, investors, collaborators, and partners focused on challenges and opportunities around corporate sustainability and competitiveness, clean technology and the transition to a low-carbon economy, cities and green infrastructure, and resource productivity / circular economy.
- **May 23rd - 24th, 2018** – Denmark and Sweden will host the **2018 Clean Energy Ministerial (CEM9)** - Denmark, Finland, Norway, Sweden, the European Commission and the Nordic Council of Ministers will host the Ninth Clean Energy Ministerial (CEM9) and Third Mission Innovation Ministerial (MI3) in the cities of Copenhagen and Malmö, known as the Öresund Region. The CEM is currently the only regular meeting of international energy ministers at which they exclusively discuss clean energy.

Renewable/Sustainable Cities & Renewable Energy (general):

- **November 1st – 3rd, 2017** – **Climate Leadership Institute** – The BC Municipal Climate Leadership Council hosted 2.5 days of intense climate action training for elected officials with leading professionals and inspirational colleagues. For any follow up questions, contact Susan Chalmers of the Community Energy Association at schalmers@communityenergy.bc.ca or by phone at (604) 628-7076.
- **November 6th – 8th, 2017** - **QUEST Smart Energy Communities on the Hill Conference**, Ottawa. For any follow up questions, contact Le Luong at conference@questcanada.org, or by phone at (866) 494-2770 ext 719.
- **November 9th, 2017** – **The Local Dimension of the NDCs: 100% Renewable Energy**. This day-long forum is part of the Climate Summit Dialogue for Local and Regional Leaders at **COP23**.
- **November 9th – 10th, 2017** – This year's **Clean Prosperity Summit** will be held at the Andaz Hotel in Ottawa, and will focus on U.S. and Canadian energy policy.
- **November 20th at 1:00pm** – **Webinar on Funding Opportunities for Municipal Climate Action**. This webinar will: outline funding opportunities available through FCM's Municipalities for Climate Innovation Program (MCIP); showcase a BC community applying for an MCIP grant; review FCM's forthcoming Staff Support Grants; and share funding programs highlighted in CEA's guide "*Funding Your Community Energy & Climate Initiatives: A guide to funding for BC local governments*". To register, click [here](#).
- **November 21 – 24th, 2017** - The Fresh Outlook Foundation's 7th **Building SustainABLE Communities** conference in Kelowna at the Delta Grand Hotel. Whether you're passionate about climate action, clean energy, water stewardship, food systems/security, community capital/infrastructure, or one of almost 20 other major sustainability topics, BSC has something just for you!
- **February 6th – 8th, 2018** – **FCM's 2018 Sustainable Communities Conference – Where Innovation Meets Action** will be held at the Westin Hotel, Ottawa. The preliminary program is [here](#).
- **Tools/Reports/News/Articles/Funding:**

- **On October 23rd, 2017**, the B.C. Minister of Environment and Climate Change Strategy announced a **New Climate Solutions and Clean Growth Advisory Council** to help British Columbia meet climate goals and grow the economy. You can find more information [here](#).
- Amongst the many informative documents and tools from the **International Renewable Energy Agency (IRENA)**, two more recent are:
 - **Stranded Assets and Renewables** - examines the potential magnitude of asset stranding in the global energy sector due to a shift to renewables and energy efficiency that would be needed to fulfil the Paris Agreement.
 - **Project Navigator** - an online platform providing comprehensive, easily accessible, and practical information, tools and guidance to assist in the development of bankable renewable energy projects.
- The **International Energy Agency (IEA) Renewable Energy Forecasts** - The IEA raised its forecasts on Wednesday for renewable energy over the next five years following a record 2016. In its medium-term renewables market report, the IEA expects global renewable electricity capacity to rise by more than 920 gigawatts, or 43 percent, by 2022, due to supportive policies for low-carbon energy and cost reductions for solar PV and wind.
- **Renewable Cities Global Learning Forum 2017, Final Report** - The event brought together leaders in the 100% renewable energy in cities movement along with vanguard city officials, implementers, researchers, and other organizations that are advancing urban energy solutions around the world. It consisted of over three dozen workshops, plenary sessions, site visits, and other activities. The outcomes from the 320 session leaders, speakers and participants in Vancouver are at.
- From the desk of the Pacific Institute for Climate Solutions (PICS), The Climate Examiner - **Wind, Solar Backed by Gas, Batteries to Deliver Third of all Electricity by 2040.**
- **Two huge energy trends Canada can't afford to ignore** (from Clean Energy Canada):
 - Of 'China' note – China is “installing three soccer field’s worth of solar panels and two windmills every hour of every day”, and they’ve already shut down the coal-fired power plants in Beijing (with more shutdowns rapidly coming). China is now the number-one investor in both wind and solar.
 - Of 'Forces Accelerating Change' note – Factors including the “imperative to decarbonize, plus the opportunity to decentralize, plus the power to digitize together act to accelerate this transition” to renewable energy.
 - Also, from Clean Energy Canada, download the report: **“The Transition Takes Hold – The Point of Great Return”**.
- **12 major cities pledge to only buy all-electric buses starting in 2025.**
- Natural Resources Canada’s (NRCan’s) **Green Infrastructure Funding** is intended to accelerate the market entry of next generation clean energy infrastructure. For more information, contact [NRCan](#).

Renewable energy, by sector below.....

Biomass/Biofuels/Bioeconomy:

- **November 27th – 29th, 2017** - **Scaling Up 2017: Making the global bioeconomy mainstream** Conference is set for November 27-29th at the Fairmont Chateau Laurier, Ottawa.
- **June 6th – 8th, 2018** – The 2018 Canadian Bioeconomy Conference & Exhibition will be held in Prince George in 2018 and entitled **“The New Bioeconomy: Adding Value to Biomass”**.
- **Report:**
 - Navius Research and the Canadian Industrial Energy End-use Data and Analysis Centre (CIEEDAC) at Simon Fraser University have done some recent work on biomass and biofuels: **“Biofuels in Canada 2017: Tracking biofuel consumption, feedstocks and avoided greenhouse gas emissions”** with the full report [here](#).

Geothermal:

- **November 22nd, 2017** – IRENA is hosting a geothermal webinar entitled **“Development of Bankable Geothermal Power Projects”**. Register [here](#).

- **November 29th – 30th, 2017 – Global Geothermal Energy Summit 2017: Maximising The Global Expansion of Geothermal Utilization** - in Amsterdam, the Netherlands.

Hydropower/Energy Storage:

- **November 1st, 2017** - The **BC Utilities Commission's (BCUC's) final report on its Site C review** was released to the Government of British Columbia on November 1st, and can be found [here](#).
- **November 22nd – 23rd, 2017** - **Canada's 2017 Forum on Hydropower** will be held at the Chateau Laurier in Ottawa to get updated on major hydropower projects that are being built across the country, to get insights into partnership opportunities and regulatory updates, and to experience great networking opportunities.
- **Articles:**
 - o **VDE Renewables, Fraunhofer ISE, ERI@N launch a global initiative for energy storage** - The Global Energy Storage Competence Cluster (GECC), involving organizations and labs in Singapore, Germany and the U.S., is intended to serve the international cleantech sector along the entire value chain. GECC was launched at the annual Asia Clean Energy Summit in Singapore this year.
 - o **Northern Swedish city gets Europe's largest battery factory**. See also [Northvolt](#) and related [press release](#).

Marine Energy:

- **November 8th – 9th, 2017 – Marine Renewables Canada 2017 Annual Conference in Ottawa** - for any follow up questions or enquiries, contact Amanda White at amanda@marinerenewables.ca / 902-717-0716.
- **November 14th – 15th, 2017** - The **11th Annual International Tidal Energy Summit (ITES)** will be held this year at the Hilton London Heathrow Airport, Terminal 5, in London, England.
- **April 30th – May 2nd, 2018** - The **Marine Energy Technology Symposium (METS) and the International Marine Renewable Energy Conference (IMREC)** will be held as part of Waterpower Week in Washington DC, USA.
- **June 12th – 14th, 2018** - The **International Conference on Ocean Energy (ICOE)** will be held in Normandy, France. ICOE is sponsored by the Ocean Energy Systems (OES) collaboration of nations as a global marine energy event focused on the industrial development of ocean energy. ICOE aims to accelerate development by stimulating collaboration networks between companies, researchers, and development centers.
- **Article & Networking:**
 - o Sandia's engineering team has designed, modeled and tested a **control system that doubles the amount of power a wave energy converter can absorb from ocean waves**, making electricity produced from wave energy less expensive.
 - o 'Tethys' provides updates on international marine energy research and other information. There are currently almost 400 people from 37 different countries who have opted into the Tethys community network - **Tethys Community**. If interested, you can [register for a user account](#).

Renewable Natural Gas:

- **January 16th – 17th, 2018** - To learn more about biogas and RNG attend **2018 Value of Biogas West** in Abbotsford. Western Canada's only biogas and RNG conference, this two day event is designed for anyone wanting to learn more biogas and RNG, to network with others in the industry and, this year, to discuss the opportunities for municipalities, wastewater treatment plant and landfill operators, food processors, farmers and others to explore the opportunities to the 'up to \$30/GJ' that utilities are able to pay for BC Renewable Natural Gas (RNG). For information and to register, [visit here](#).
- **Funding:**
 - o The **Natural Gas Innovation Fund** supports the funding of cleantech innovation in the natural gas value chain to fill a technology development gap in the sector and invest in innovation enabling natural gas solutions for current and emerging challenges facing Canada's energy system.

Solar:

- **December 4-5th, 2017** - Attend **Canada's 2017 Solar Energy Conference** at the Metro Toronto Convention Centre North Building, Toronto.
- **Reports/Articles:**

- Canada is one of 31 members of International Energy Agency's (IEA's) Photovoltaic Power System Program (PVPS). The IEA PVPS is one of the collaborative R&D Agreements established within the IEA and, since its establishment in 1993, the PVPS participants have been conducting a variety of joint projects in the **application of photovoltaic conversion of solar energy into electricity**. See Canada's (and a number of other countries') National Survey Reports of PV Power Applications.
- For 2017, **new PV installations approaching 100 GW**, go here - **here**.
- **Global solar installs forecast at 90 GW/year; US energy groups file case against coal support**.
- **US solar boom set to make PV with storage cost competitive by 2020**.
- **Amazon announces its biggest wind farm to-date** - more than 100 turbines providing 1,000,000 MWh of clean energy in Texas. This contributes to Amazon's 18 existing wind and solar projects across the U.S., with over 35 more anticipated going forward.
- A 150MW solar thermal power plant, the biggest of its kind in the world, will be built in South Australia by **global company SolarReserve**.

Sustainable Transportation/ZERO Emission Vehicles:

- **October 4, 2017, Fleet Challenge Webinar** – For a full PowerPoint slides from Roger Smith (Executive Director, Fleet Challenge), go to **Case Studies of Green Fleet Activities in Canada**.
- **October 29th – November 1st, 2017 – ACT Canada Sustainable Mobility Summit and Goods Movement Forum** was hosted by the Region of Peel. If you have any follow up Summit questions or inquiries, contact summit@actcanada.com or call 613-226-9845.
- **Articles:**
 - Fleetcarma provided this summary for those interested in **“Electric Vehicle Sales in Canada Q2 2017 Update”**
 - FLO and Electric Circuit have joined forces to make charging stations available to travellers and visitors in several VIA Rail stations in Quebec and Ontario - **“Electric Vehicle charging stations come to Via Rail”**.
 - From Bloomberg New Energy Finance, **“The EV Bandwagon is Accelerating, But is it Unstoppable?”**

Waste-to-Energy/Resources:

- **October 26th, 2017 and five additional workshop** - The first of six **National Industrial Symbiosis Program (NISP)** Metro Vancouver-pilot workshops - entitled “Business Opportunities Workshop” - was held on October 26th at the Annacis Research Centre in Delta. A report on the first workshop is forthcoming, and the second workshop is scheduled for January 2018. For more information, contact Tracy Casavant at Lighthouse Sustainable Buildings Centre at tracy@lhsbc.com or (778) 773-0332. If you are interested to learn more about NISP, go **here**.

Wind:

- **Articles:**
 - **Wind energy continues to grow in Canada.** In 2016, there were 285 wind farms made up of 6,288 wind turbines - <https://canwea.ca/news-release/2017/01/31/wind-energy-continues-strong-growth-canada-2016/>.
 - From Bloomberg New Energy Finance, **“European Offshore Wind Players Look to China for Growth”**.
 - The **world's tallest wind turbine** has been built in Germany - <https://electrek.co/2017/11/02/worlds-tallest-wind-turbine-built-in-germany/>.
 - **General Electric (GE)** kicked off its **third annual DRONEWEEK (Oct. 9-13)** and featuring aerial footage of different energy infrastructure each day: Day one: “The Wind Network”, showcasing Pattern Energy's Meikle Wind Farm, the largest wind farm in western Canada; Day two: “The Solar Tipping Point”, offering an early look at what will be the world's biggest solar park, located in Dubai; Day three: “The Alpine Battery”, showing a hydroelectric power plant built inside of a mountain in Linthal, Switzerland; Day four: “Islands of Power,” showcasing the remote islands of Indonesia to see the impact of mobile power plants; and Day five: “Data Powered Cities,” offering a look at the “intelligent streets” of San

Diego, which has a “Smart City IoT” platform with Current by GE, transforming street lights into a connected, digital infrastructure.

Complementary to Renewable Energy.....

District Energy:

- Announcements/Report:

- Mike Homenuke (KWL; Vancouver) and Peter Russell (City of Richmond) received an award of excellence for their **Central at Garden City District Energy System Mini-Plant** at the 2017 Canadian Consulting Engineering Awards gala held on October 24 in Ottawa. The Central at Garden City District Energy System Mini-Plant is Phase 4 of the Alexandra District Energy Utility (ADEU), the largest ambient heating and cooling district energy system in North America.
- Simon Fraser University (SFU) has partnered with Corix to create **Burnaby Mountain District Energy Utility (BMDEU)** and will use urban / construction waste in their \$33 million biomass power plant system. The plant will feed both the campus and adjacent UniverCity properties. The plant is scheduled to be up and running by 2020, reducing GHGs by 69%.
- Whether your Canadian data interests include district energy, renewable energy, biofuels/biomass, combined-heat-and-power (CHP) or others, check out Simon Fraser University’s (SFU’s) Canadian Industrial Energy End-use Data and Analysis Centre’s (CIEEDC’s) new Canada-wide database resources and related reports, including their new **“Innovative Energy Facilities”**.
- Just outside Copenhagen, Denmark, will be building a large district energy facility with a ski slope on its roof - **the Amager Bakke waste-to-energy facility**.

Energy Efficiency:

- **November 28th, 2017** - Quality Urban Energy Systems of Tomorrow (QUEST) are hosting **“High-Performance Profits: How Buildings, Manufacturers and Service Providers Can Find Opportunity in the BC Energy Step Code”**. To **register**.
- **LG Participation/Articles/Map:**
 - The **BC Energy Step Code** was profiled recently in an article by QUEST Canada, entitled **“B.C.’s New High-Performance Staircase”**. As QUEST notes, “Energy efficiency is the first, and perhaps most fundamental, of the four pillars that underlie the **Smart Energy Community** model at the core of QUEST’s mission.”
 - Local Governments can take advantage of a free program to reduce community GHG emissions in rental apartment buildings: The **FortisBC Rental Apartment Efficiency Program** provides free energy and water efficiency upgrades across BC. Communities involved to-date have seen a higher uptake and larger energy savings. For information on how your community can access this free program contact Jordan Fisher at 778-783-0315 or email jfisher@frescoltd.com.
 - Pembina’s British Columbia Green Buildings Map, 2017 edition – **“Energy-efficient homes and buildings power the clean growth economy”**.
 - An article from UBC Sustainability – **“Passive Houses to Play a Bigger Role in Fight Against Climate Change”**.
 - A recent working paper by IRENA looks at the **“Synergies between renewable energy and energy efficiency”**.

+++++

As always, suggested additions and/or improvements to these ‘snapshots’ are most welcome. Also, if you’d like to discontinue receiving these emails, just indicate so in a response email to Ted.Sheldon@gov.bc.ca.

Best regards,

Ted

Ted Sheldon

Senior Clean Energy Advisor | Alternative Energy | Ministry of Energy, Mines, and Petroleum Resources

4th fl, 1810 Blanshard Street | Victoria, BC

t: 778 698-7154 | c: 250 213-8732

Ted.Sheldon@gov.bc.ca

.....conserve, it's worth the energy



From: Susan Chalmers <schalmers@communityenergy.bc.ca>
Sent: May 19, 2016 4:44 PM
To: Susan Chalmers
Subject: Community Energy Association Q2 Update
Attachments: image003.wmz

Community Energy Association | 2016 Q2 Update

EDUCATION

Certificate in Community Energy Management:

CEA's first year of the Certificate in Community Energy Management (2015) finished in Q1. Five students successfully wrote the certification exam and are now authorized to use the designation "Certified Community Energy Manager." Our congratulations to:

- Teresa Chilkowich, Dehcho Community Energy Coordinator, Arctic Energy Alliance NWT
- Ryan Hennessey, Senior Energy Planner, Energy Branch, Government of Yukon
- Geoff Huber, Environmental Officer, Environmental Services, BC Transit
- Robert Lawrance, Environmental Planner, City of Nanaimo
- Kjell Liem, Saltspring Community Energy Group & Saltspring Solar Ltd.

CEA is in the process of trademarking the CCEM designation and setting up a LinkedIn group to support networking. The first course in the 2016 program (delivered via BCIT) is complete. Twelve students finished the course. The introductory course will be offered again in September, followed by the second course – Community-based Renewable Energy. The complete on-line professional development certificate program includes guidance on district energy & heat systems, planning for electric vehicle charging infrastructure, energy and emissions planning for small communities, investment in and governance of green energy systems, green energy and local economic development, community energy dieting, and more. For more information, see www.communityenergy.bc.ca/edu.

PROJECTS

RDEK Community Energy Manager (CEM3):

The CEM program is in the 3rd quarter, with great progress on a number of regional, collaborative initiatives underway.

Due to the leadership shown in the East Kootenay around the support for electric vehicle charging station strategy development, the scope of that initiative has expanded to include the Regional Districts of Central Kootenay and Kootenay Boundary. Megan is now modeling an EV charging station network that would span from the Alberta border to the Okanagan. A proposal has been invited by the Federation of Canadian municipalities, their interest being the opportunity to support a pilot that explores approaches to accelerating EV adoption in the rural context.

On the built environment, Megan has been exploring options for new home policy that would encourage/incent builders to exceed building code, achieving higher energy efficiency in new builds. Preliminary work is underway to plan for another round of the East Kootenay Energy Diet.

The RDEK organic waste diversion pilot program will be kicking off this summer. Megan is working closely with staff to bring this project to fruition.

The CEM Ideation project has produced a draft business case and draft communications strategy to assist CEMs with gaining and maintaining support for climate related projects.

BC Hydro CEEP QuickStart:

Having completed 43 Community Energy & Emissions Plans (CEEPs) through the CEEP QuickStart program (1 out of every 5 CEEP completed in all of Canada), CEA is continuing to help small and mid-sized communities in the BC Hydro area with implementation, including:

- Support with implementing innovative planning & policy measures on energy efficiency in buildings (see the following description of the NRCan policy work)
- Providing learning opportunities for local government staff and a peer-to-peer staff learning network through the Community of Practice (see the CEEP QuickStart webinars under presentations and outreach)
- Being the local government portal for access to PowerSmart energy efficiency program materials

Strategic Community Energy & Emissions Planning (SCEEP) in the West Kootenays:

SCEEPs were completed for 10 FortisBC/Kootenay communities during the project period of September 1 and March 31, 2016. This includes SCEEPs for 2 Regional Districts: RDCK and RDKB. A project final report was delivered to project funding partner Columbia Basin Trust.

The implementation phase has commenced, with funding from project partner Fortis BC. Currently Trish is organizing a Local Government tour to meet with the 16 local governments in the project area, either as a staff meeting or Council presentation to assist with SCEEP adoption, introduce common action items such as a sustainability checklist, the “Fueling the Kootenays” proposal for a coordinated approach to EV infrastructure implementation and to gauge interest in a Community Energy Manager in the West Kootenay. An initial Council presentation was made to Grand Forks on April 11. Board presentations have been made to RDCK and RDKB on April 21 on the SCEEP process and the EV strategy. Some exciting priorities came out of the session, including a desire to see a renewable energy scan completed for the region, an identified need for an inventory that identifies how and where people move throughout the region (transit, roads and active transportation), and the need for a coordinated approach to managing the regional priorities.

Two initial pieces of implementation have been developed: guidance on the energy benefits associated with small homes and advice on the use of regionally consistent sustainability checklists promoting energy efficient buildings and incentives. A policy brief on requiring home labeling at the point of construction is being developed for the City of Nelson.

NRCAN Policy Work:

At NRCan’s request, CEA prepared and submitted a proposal to help BC local governments implement planning and policy measures that will help to advance energy efficiency in new and existing buildings. CEA started work on this short but intensive project in October, and it was completed by March 31 2016. CEA directly supported 20 communities with in-depth support, and had many additional communities attend workshops and webinars. CEA supported them with policy tools including development cost charge reductions, density bonusing, home energy labelling, permit fee rebates, finding opportunities in the zoning bylaw, and sustainability checklists. CEA also supported them with education of community stakeholders. CEA had 175 paid registrants for the builders’ workshops, spread over 5 locations in rural BC. In addition, over 20 people attended the realtor energy efficiency education workshop in Nelson, and a short video of that event was created and then posted to our website.

Abbotsford Corporate Carbon Neutral Action Plan for Buildings:

CEA has a minor role in a project with SES Consulting to look at the energy efficiency of City of Abbotsford buildings. CEA has identified funding sources and strategies for the City, to help them accelerate their retrofits. A draft has been submitted to SES.

City of Coquitlam CEEP Operationalization:

Coquitlam has hired CEA to help them determine the status of actions detailed in the CEEP that was conducted several years ago, build buy-in across departments for specific initiatives over the next two to three years and a process for ongoing refreshing of the tactical / operational plan for the CEEP. CEA delivered a workshop for senior managers in March and a draft report is currently under review. This project is using some of the guidance developed through the GTI project to support successful implementation. Thanks to BC Hydro for their contribution towards this project.

Getting to Implementation:

The research phase for this **national 3-year \$1.1 million project** is nearing completion. Work is underway on accelerating implementation with the three pilot communities of Campbell River, Calgary and Waterloo. CEA attended a meeting with the City of Calgary to discuss CEEP implementation. Subsequently, the team has reviewed several key documents and provided input on presentation materials for the Mayor and Council. Since the last newsletter CEA has presented in-person to the new Community Energy Planning Steering Committee at the City of Campbell River, and drafted a funding strategy. CEA will be working on educational materials to support community implementation work going forward. SEE MORE AT <http://gettingtoimplementation.ca/pilotcommunities/>.

NRCan Policy Efficacy Research:

CEA and Quest Canada have been conducting a review of policies that help lead to developing Community Energy Plans. The research looked at all provinces and territories and identified that BC, NWT and ON were the most successful in developing CEP's and that having energy use data was one of the most important factors. We are currently putting the final touches on the report. It will then be going for publishing later in May.

Haines Junction Community Energy & Emissions Inventory:

CEA's second piece of work in the Yukon has begun. CEA is helping the Yukon Government's Climate Change Secretariat with developing a community energy & emissions inventory for the community of Haines Junction. The Secretariat is collecting the data, while CEA is advising the Secretariat on what information is needed, checking the data, and providing other support. CEA is also developing guidance for the Secretariat so it can develop its inventories in-house in future. Following project delays, this project is now due to be completed later in 2016.

BC Mayors Climate Leadership Council:

CEA supported BCMCLC to host four peer learning events at all of the local government association AGMs except LMLGA (cancelled due to lack of interest). The session included a brief energy literacy overview followed by breakout sessions where local success and barriers were identified as well as methods that could help get buy in from others. This was followed by an additional breakout where participants could self select on topics of interest. Total registration for the 4 sessions was 110.

BMCLC with support from CEA submitted a response to the BC Climate Leadership Consultation. A follow up news release resulted in over half a dozen articles both in print and radio. We were also asked to provide information for a briefing note to at least one senior staff person.

In early May BCMCLC had a meeting to discuss a variety of topics including:

- 1) A name change to a more inclusive one is being contemplated. The BC Municipal Climate Leadership Council is currently being considered by the members.
- 2) Ways to increase membership including various membership tiers.

- 3) Future plans for UBCM including a presentation to UBCM Environmental Committee (in conjunction with CEA) and workshop/clinic at UBCM.
- 4) Potentially a 1.5-day training institute in 2017.

BCMCLC is also working on meeting with a number of senior MLA's to educate them about BCMCLC and the roles LG can play with regards to future climate plans. BCMCLC will also be participating in a half day planning session with the CRD.

Climate & Energy Action Awards: CEA has started the fundraising stage of the 2016 awards program. Funds have been requested from BC Hydro, FortisBC, and various ministries of the provincial government. UBCM offers in-kind funding each year. Awards will be presented at the Union of BC Municipalities Convention in September, 2016 in Victoria.

If you would like to volunteer to be a member of the **2016 awards nomination committee**, please advise Patricia Bell at pbell@communityenergy.bc.ca.

BC Manitoba Research: CEA has completed research into correlations in public datasets to determine if there are linkages at the community level between per-capita energy and emissions, linear km of roads, cost of local government, taxable area, and other indicators in both BC and Manitoba with funding from the Eco-Ouest project of the Francophone Economic Development Organizations in western Canada. There were not strong correlations at the community level.

QUEST Solutions Tables:

CEA held solutions tables in Kelowna, Nelson and Nanaimo. The tables were well attended with 73 people attending across all three. The Province of BC and Pembina Institute provided an overview of the provincial government climate leadership and update from the energy efficiency working group. This was followed by discussions with the participants around potential submissions to the provincial government and state of climate change work in the local area. The attendees were a mix of LG staff, consultants, utilities and not for profits with some elected officials attending the Nelson session. The Nelson session also included extra discussion on adaptation. Based on the response, CEA created a template response to the provincial government that was used by at least two participants. Plans for next quarter include follow up with participants of the three Solution Tables and mid-term reporting.

Kitimat Stikine Bioenergy Project:

CEA staff continue to follow up on this project based on the funding availability from the regional district. The project would include some initial scoping work, bioenergy technology market research, technology review and selection. The project would potentially have a number of steps over a 3-6 month period with revenue at each step depending on available funding.

Kelly Lake First Nation CEEP/Energy Scan:

Megan had the opportunity to travel to Kelly Lake to attend a Nation-building workshop, and initiate the conversation around energy efficiency in new homes and retrofits for existing homes. She had the opportunity to present to the community to identify some of the BC Hydro programs that homes in that community are eligible for. There has been no update on the funding to pursue a full energy plan for the community.

School District 8: Carbon Neutral Action Report:

The Manager of Operations for Kootenay Lake School District participated in the Nelson Solutions Table, RDCK SCEEP and Creston SCEEP. As a result, CEA was approached to refresh the 2015 Carbon Neutral Action Report by adding GHG emission reductions target and action items. Trish has worked with SD8 during the month of May to deliver this small contract in time for the report deadline of May 31, 2016.

RDCK Area D Energy Scan:

CEA has submitted a proposal to RDCK Area D to complete a renewable energy scan. The total value of the project would be about \$11-14,000 and take about two months to complete. Trish presented the proposal in person at the Kaslo and Area D Economic Development commission meeting on May 16. The commission resolved to move ahead with the project and is in the process of sourcing outside funds prior to finalizing a contract with CEA.

Builders' workshops proposal:

Following CEA's successful builders' workshops in February and March, CEA has been invited by BC Hydro to submit a proposal for another series of builders' workshops in BC to help train builders in building to ENERGY STAR® for New Homes. This project would take approximately 6-12 months and generate \$65-80,000 in revenue.

PRESENTATIONS AND OUTREACH

Presentations and Workshops that CEA participated in or attended include the following:

Event	Date	Location
RDKB SCEEP	20-Jan	Trail
Calgary GTI	27-Jan	Calgary
Symposium	28-Jan	New West
BCMCLC LGLA Session	05-Feb	Richmond
Kelowna New Home	09-Feb	Kelowna
Kelowna Solutions Table	10-Feb	Kelowna
Nelson Solution Table	11-Feb	Nelson
PG New Home	16-Feb	Prince George
Dawson Creek New Home	17/18 - Feb	Dawson Creek
RDCK Mega SCEEP	19-Feb	Nelson
Naniamo Solutions Table	03-Mar	Naniamo
Campbell River Workshop	2 or 4 Mar	Campbell River
Cranbrook New Home - Tech & Policy	02-Mar	Cranbrook
Grand Forks SCEEP	08-Mar	Grand Forks
AVICC BCMCLC	10-Apr	Naniamo
SILGA BCMCLC	22-Apr	Kelowna
AKBLG BCMCLC	29-Apr	Kimberley
NCLGA BCMCLC	06-May	Dawson Creek

- **CEEP QuickStart webinars:** CEA held a webinar on April 5th on the coming Stretch Codes with the BC Building Institute presenting.
- **Building & building official education workshops:** Over February and March, CEA held workshops for builders and building officials on building more energy efficient homes. Workshops included presentations on the utility New Home program, presentations by Murray Frank on mechanical energy efficiency component) of the BC Building Code for homes, and a presentation by the BC Building Advisor. The workshops had 176 paid registrants.
- **Realtor energy efficiency education workshop:** In March, CEA held a realtor energy efficiency education workshop in Nelson, with Nelson EcoSave and FortisBC. The workshop had over 50 attendees. A short video of it was made and is now on the CEA website.
- **The Water, Drought and Climate Change Forum:** Megan presented at this forum on March 23, bringing mitigation and energy into the conversation of climate impacts and adaptation.
- David and Pat have been participating in the Provincial Government's **Energy Efficiency Group** consultation on District Energy and Pat has been participating in the Part 9 and 10 code stretch codes.
- David has been invited to participate at the **International Bioenergy Conference** in June 15-17 where he will present on using community energy to help address wildfire and heat.
- Trish presented the "**Fueling the Kootenays**" strategy to both RDCK and RDKB to request support and funding for the FCM application.
- Trish provided a "**guest lecture**" on SCEEPing in the Kootenays for the CCEM course.

INSIDE CEA

CEA Inviting New Members: Community Energy Association invites new members to join the current 18 members. New members can reach, provide valuable insight and balance, and help sustain the organization financially.

New Staff: Susan Chalmers joined CEA in May as an Administrator.

Final Technical Report

The capacity for integrated community energy solutions policies to reduce urban greenhouse gas emissions

Prepared for:

Quality Urban Energy Systems of Tomorrow (QUEST)

As represented by Shahrzad Rahbar, head of the project steering committee

August 26, 2010

Submitted by:



MKJA

MK Jaccard and
Associates Inc

M. K. Jaccard and Associates
520 – 580 Hornby Street
Vancouver, British Columbia
V6C 3B6

M. K. Jaccard and Associates

Dr. Chris Bataille (Project Manager)

Suzanne Goldberg and Jacqueline Sharp (Assistant Project Managers)

Noel Melton, Jotham Peters, and Michael Wolinetz

University of Toronto, Cities Centre

Dr. Eric Miller et al.

University of British Columbia

Institute for Resources, Environment and Sustainability

Dr. Duncan Cavens et al.

About the Study

This report presents an analysis of policies that encourage integrated community energy solutions (ICES). It is novel in that it examines the effects of integrated community energy solutions on a scale for all of Canada. While the ICES concept is well developed on the case by case scale, this study represents the first step in linking four unique models of varying scale and scope, a land use, transportation, energy-economy (economy-wide energy-systems), and finally a general equilibrium macroeconomic model. Researchers will be able to apply these findings to refine the linkages between these four models and further improve their analytical capabilities.

The ICES concept and associated policies address and have impacts on all urban sectors of the economy: residential, commercial, urban and intercity personal transportation, freight transportation, waste and water. However, this study focuses on three—the impact of ICES policies on the residential, commercial and urban personal transportation sectors. In the report, "urban" greenhouse gas (GHG) emissions and energy use will refer to emissions and energy use in only these sectors. Freight transportation, intercity personal transportation and waste are modeled with the energy-economy model, but are not subject to ICES policies. Nevertheless, these sectors are subject to economy-wide carbon and energy policies. Due to technical and data constraints, water and wastewater treatment were not modelled and were not addressed in the study. But significant potential exists to reduce energy use and GHG emissions in these sectors through the implementation of ICES policies.

This study uses community archetypes to model the impact of ICES policies on Canada as a whole. The cities selected as archetypes are used to analyze the different impact of the policies on small, medium, large, and emerging cities across Canada. The results should not be interpreted as forecasts of how individual cities will develop, or as recommendations. Because this is a national analysis, results in this report refer to Canada-wide impacts. While we acknowledge that policy impacts may differ from region to region, these results are not presented in this document. Regional impacts of the study can be found in the accompanying technical report and appendices.

Disclaimer

The research findings presented in this report are those of M. K. Jaccard and Associates, Inc., Eric Miller of University of Toronto and Duncan Cavens of the University of British Columbia, and any errors remain the responsibility of the research team above.

Page 237 of 320 to/à Page 320 of 320

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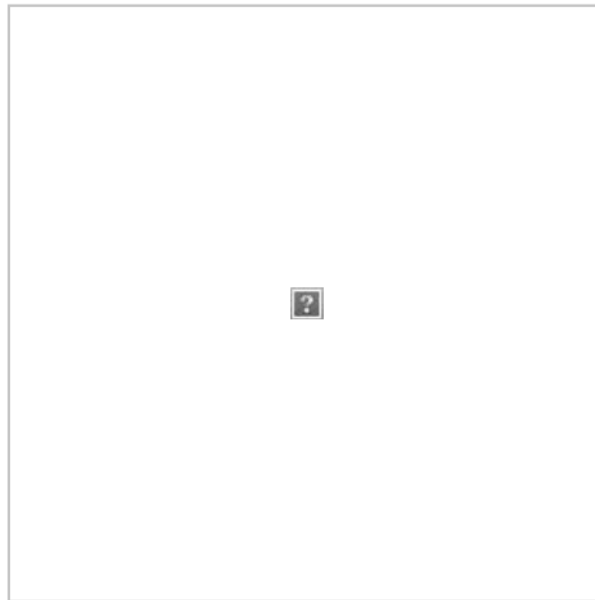
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Page 001 of 298 to/à Page 248 of 298

Withheld pursuant to/removed as

Copyright

From: [Brent Gilmour](#)
To: [Bedford, Brian MAH:EX](#)
Subject: Executive Director Leadership Change at QUEST
Date: Thursday, July 5, 2018 5:02:07 AM



Executive Director Leadership Change at QUEST

**Executive Director Brent Gilmour will step down effective July 20,
2018**

**Managing Director Tonja Leach to serve as Interim Executive
Director**

Dear Friends,

It's Brent Gilmour from QUEST. I am writing to let you know that I've decided to step down from my post as Executive Director, effective July 20.

It's been an honour and privilege to have worked with an incredible network of volunteers and industry leaders across Canada over the last seven years to establish a positive and compelling vision of Canada's energy future. QUEST is now regularly helping policymakers, utility leaders, regulators, and corporate executives position their organizations and jurisdictions for success in the growing Smart Energy Communities

marketplace.

My colleague and friend Tonja Leach—QUEST's Managing Director—will serve as Interim Executive Director while the board conducts a national search for my replacement.

Transitions always present challenges for any organization, but it is a testament to the strength of our team that I will be leaving QUEST on such a high note.

Several years back, we set a goal that every Canadian community will be a Smart Energy Community by 2030. A Smart Energy Community is at once resilient, affordable, energy efficient, clean, and prosperous. Our target date is creeping up fast, but our goal is looking more achievable than ever.

That's because in the past 18 months or so, a significant and growing number of the various players in Canada's energy ecosystem have embraced the Smart Energy Community marketplace. According to our most recent reckoning, more than 400 communities—which collectively represent more than 50 percent of Canada's population—are now in the smart-energy club.

And for a good reason. According to our internal forecast, if all stakeholders acted to fully deliver on the potential of Smart Energy Communities, they would open up enormous private sector opportunities. Today, we estimate the marketplace at more than \$70 billion, employing over 700,000 Canadians.

Knowing what we do about the powerful economic drivers underpinning the QUEST mission, we've ramped up our work. This year alone, we:

- Launched the [QUESTtalks](#) series, expanded our services for all of our [subscribers](#), and kicked off our [Smart Energy Leaders' Dialogue](#) salon series in Calgary, Ottawa, and Fredericton.
- Engaged with more local governments, utilities, and developers than we ever have across Canada as part of the [Smart Energy Communities Scorecard](#) and in support of our Community Resilience initiative.
- Played a leading role in Natural Resources Canada's just-released [Generation Energy](#) initiative, which establishes a new energy vision not only for the nation, but for communities, too.
- Welcomed an invitation from the Government of Canada, the Province of British Columbia, and the Northwest Territories, Yukon, and Nunavut territories to host a workshop to kick off and inform the agenda for the upcoming annual Energy and Mines Ministers' Conference.

Meanwhile, again, thanks to our team, QUEST has earned its reputation as a neutral, nonpartisan, and business-friendly resource for those seeking insight on the Smart Energy Communities marketplace.

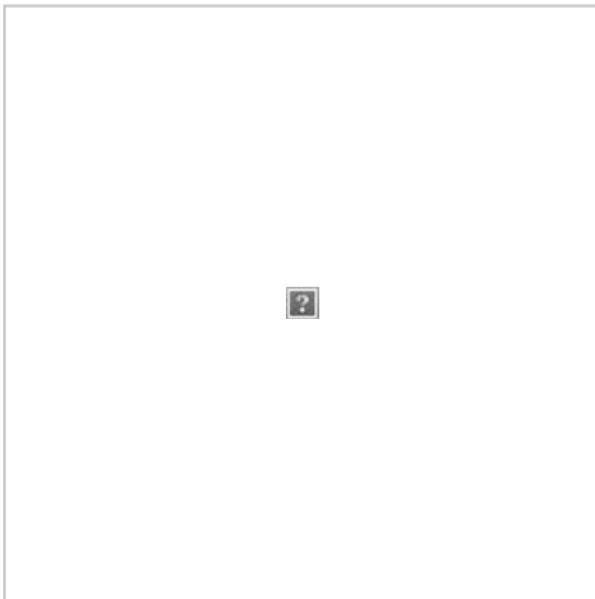
I am grateful that Tonja has agreed to step in and lead the organization through the

transition. She has served as my right hand since our official launch in 2011, and is well-known by our partners, clients, and friends. I have complete confidence in her. Put simply, she is an exceptional leader.

I want to thank all of our allies, partners, clients, funders, subscribers, and my many friends throughout Canada's energy ecosystem for their support and encouragement over the years.

But I especially want to thank my outstanding staff and volunteers. You have truly been a dream team to work with. You're the heart of this organization, and I know you will continue to inform, inspire, and shape the positive transformation underway in communities, large and small, across the nation, far into the future.

With gratitude,



Brent Gilmour

July 5, 2018

From: Brent Gilmour
To: Bedford, Brian MAH:EX
Subject: Big Changes at QUESTI
Date: Thursday, June 14, 2018 12:44:32 PM



2018 Dream Team

Dear Brian,

There has never been a more exciting time for QUEST.

Several years back we established our vision that every Canadian community will be a Smart Energy Community by 2030. That date is creeping up fast, but our goal is looking more achievable than ever.

Why is that? In the past year, a significant and growing number of the various players in Canada's energy ecosystem have embraced the Smart Energy Community marketplace. More than 400 communities—which together represent more than 50 percent of Canada's population—are now in the smart-energy club.

For QUEST, this impressive growth means new opportunities and new challenges. We need to ensure we are well-positioned to tackle these challenges and take full advantage of emerging opportunities.

That's why today I am implementing a number of staff changes, as outlined below. These changes, effective immediately, will better position us to help governments identify and lower barriers, help utilities adapt to change, and help companies identify and leverage emerging opportunities in the Smart Energy Communities marketplace.

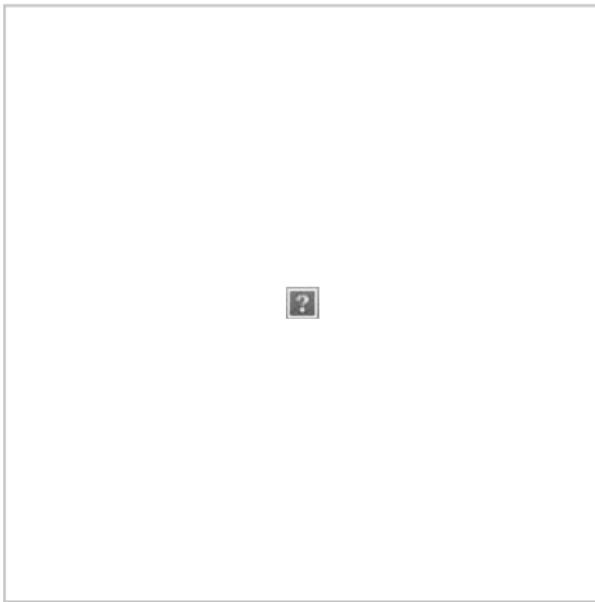
It gives me great pleasure to introduce you to QUEST's 2018 dream team:

We will continue to build out the QUEST team over the coming months as we position the organization to deliver on our vision.

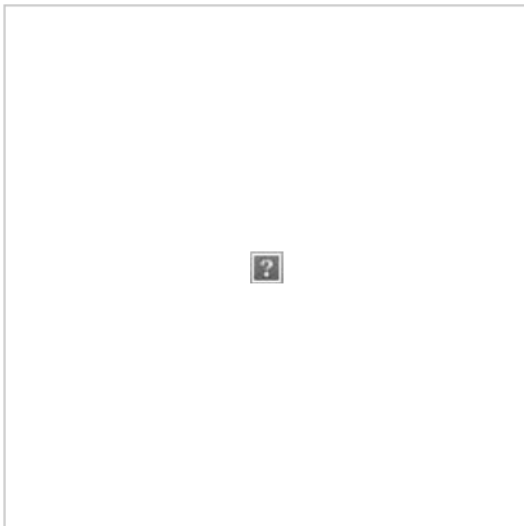
Please join me in congratulating everyone on their new responsibilities.

Sincerely,

Brent Gilmour MCIP RPP
Executive Director

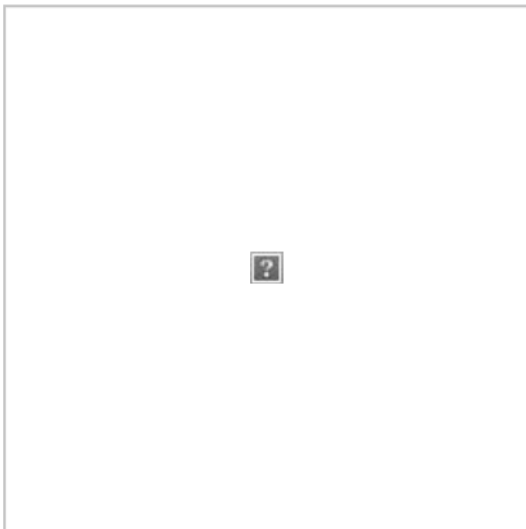
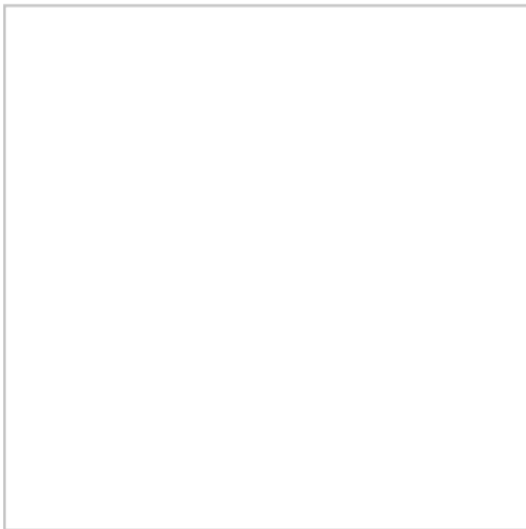


Senior Management



Tonja Leach is now Managing Director, Operations & Services. In her new role, Tonja oversees strategic planning and the organization's day-to-day management. She also oversees administrative and financial systems, including finance, accounting, information technology, human resources, communications, and physical infrastructure.

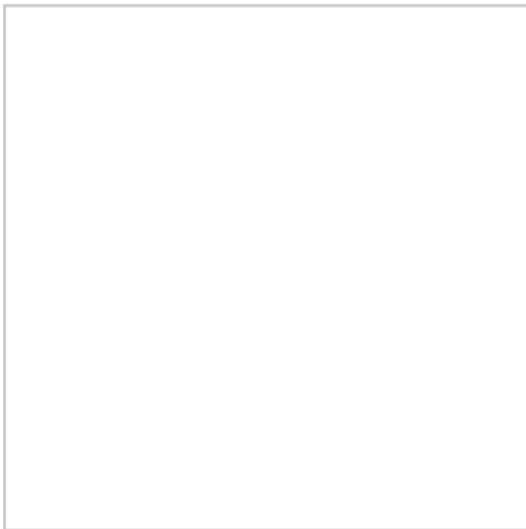
Helen Platis, who joined QUEST this past fall, is continuing as the Director, Client Services. She meets the needs of our existing and new subscribers, and acts as the first point of contact for those interested in learning more about our service offerings.



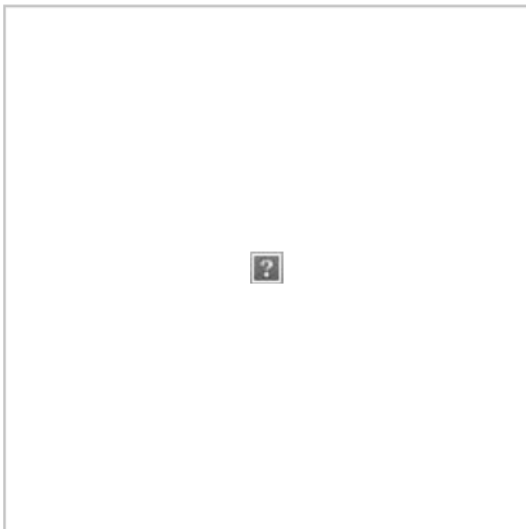
Ericka Wicks, who joined QUEST in January, is continuing as Director, Projects and Advisory Services. She oversees the development, management, delivery, and strategic growth of projects, including research, and advisory services. She also oversees our senior associates.

Staff

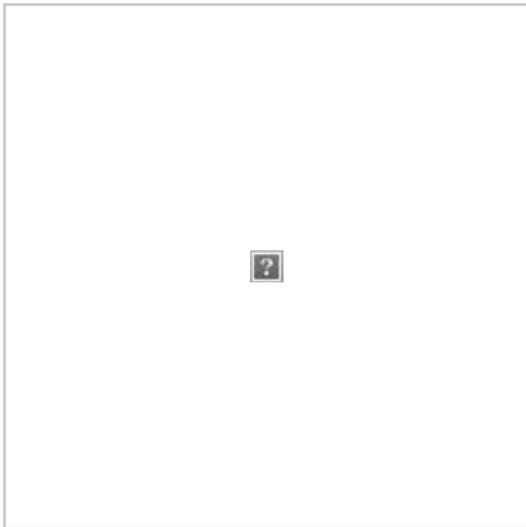
Cheryl Ratchford is now Senior Lead, Marketing and Communications. She is in charge of the Smart Energy Communities story and stewards the QUEST brand, as manifest in all our media and across all our channels.



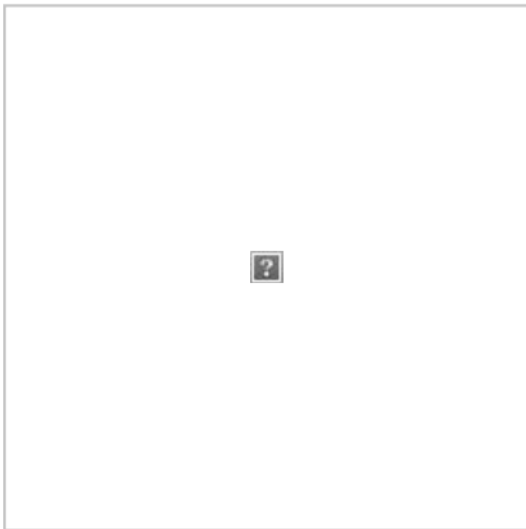
Michael Lee is now Senior Lead, Analytics & Services. He gleans valuable business insights from pools of raw data and defines and reports on metrics. He also helps develop and deliver projects, research, advisory services, operates QUEST working groups, task forces and other bodies, and develops financial reporting materials.



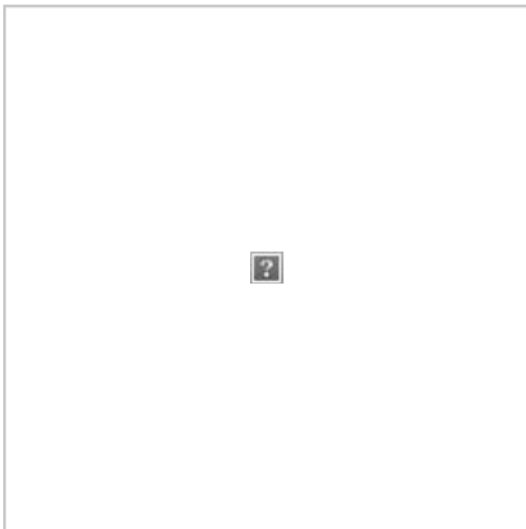
Eddie Oldfield is now Senior Lead, Projects & Advisory Services. Eddie will continue to coordinate activities and conduct research in New Brunswick and Prince Edward Island. He will also support the development and delivery of projects and advisory services, and support business and subscriber development.



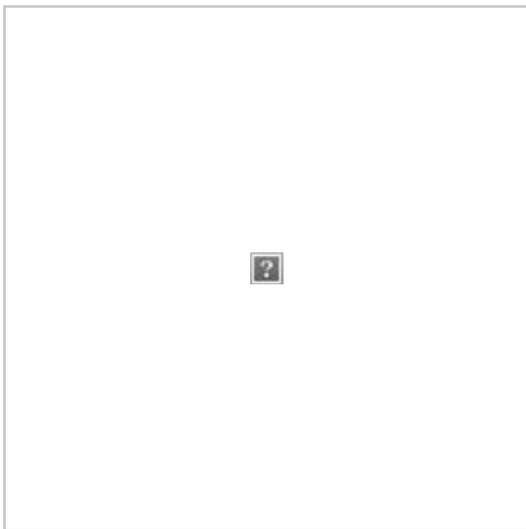
Alex Benzie is now the Senior Lead, Central Services. Alex will continue to be the point of contact for Ontario in addition to coordinating the Community Energy



Planning Implementation Network in Ontario and supporting the Ontario Combined Heat & Power Consortium. She also leads national and regional projects.

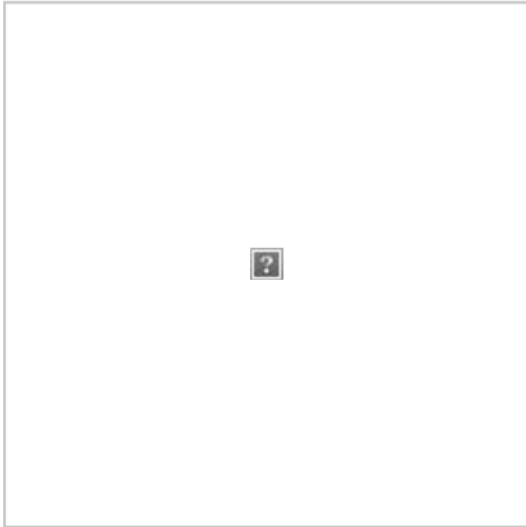


M. Samantha Peverill is now the Senior Lead, Atlantic Services. Samantha will continue to coordinate the QUEST NS Network and related Working Groups and will support the delivery of Project and Subscriber Markets. She'll play an integral role in coordinating activities across Atlantic Canada.

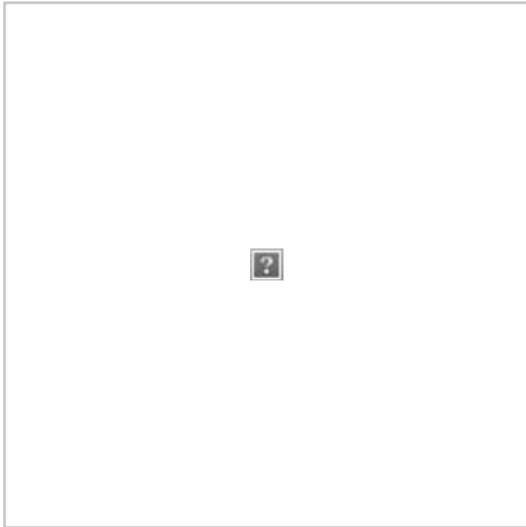


Julie Bunker has just joined QUEST as Senior Lead, Western Services. She is responsible for developing and delivering project and advisory services, delivering subscriber services and programming, and ensuring the smooth operation of QUEST working groups, task forces and other bodies. She also supports business and subscriber development in the west.

New Additions to Senior Associates



René Drolet, with René Drolet Consulting, has joined QUEST as a Senior Associate offering expertise in Indigenous and government relations, and policy development and analysis.



Alan Rebane, with Rebane Group Inc., has joined QUEST as a Senior Associate offering expertise in community resilience and emergency management planning.



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Ottawa, ON K1R 1A4

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From: [QUEST](#)
To: [Bedford, Brian MAH:EX](#)
Subject: The Secret to Change | March Newsletter
Date: Monday, April 9, 2018 5:39:11 AM



Newsletter

April Edition



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Forward



Diversity and Inclusion - The Value of Expanding our Labour Market

By: Julie Bunker, Project Coordinator, Programs and Business Solutions, Stantec

"The secret of change is to focus all of your energy, not on fighting the old, but on building the new". This statement from Socrates proves itself true, time and time again. As we continue to see major changes and advancements across the global energy landscape due to advances in technology, updates to policy, changes in demand and supply, and changes to the economics and business models, it's becoming evident who is adapting well to the change, and who is still fighting it.

[Read the blog by Julie Bunker](#), which is a preview to her tabletop discussion taking place at [QUESTtalks: Adaptability](#) - Preparing Your Business for the Changing Energy Market taking place in Calgary AB on April 18, 2018.

News & Insights

200 Million Tones of Opportunity

It turns out that across the country small and

medium-sized businesses have direct control over 200 million tonnes of greenhouse gas emissions. That's in their operations - the electricity they consume, the fuel they purchase, the natural gas they use, and the waste they generate. [Read Climate Smart's full report.](#)



Building Lasting Change

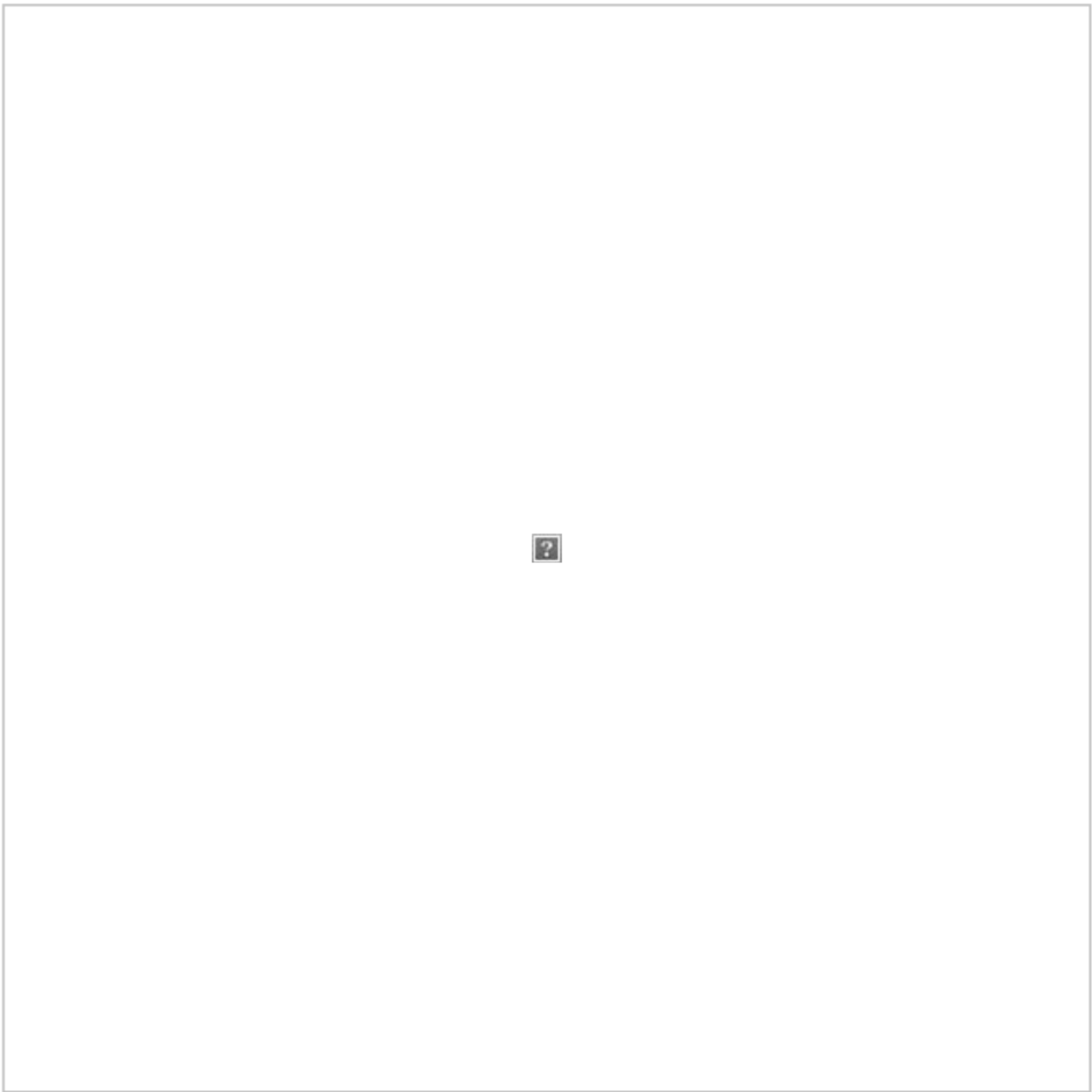
The [Building Lasting Change 2018 with WorldGBC Congress Canada](#) program is now available online, featuring dynamic education sessions, special events highlighting the latest in green building innovation, and exciting networking opportunities. Don't miss out on early bird savings of up to \$500 – register before April 13.



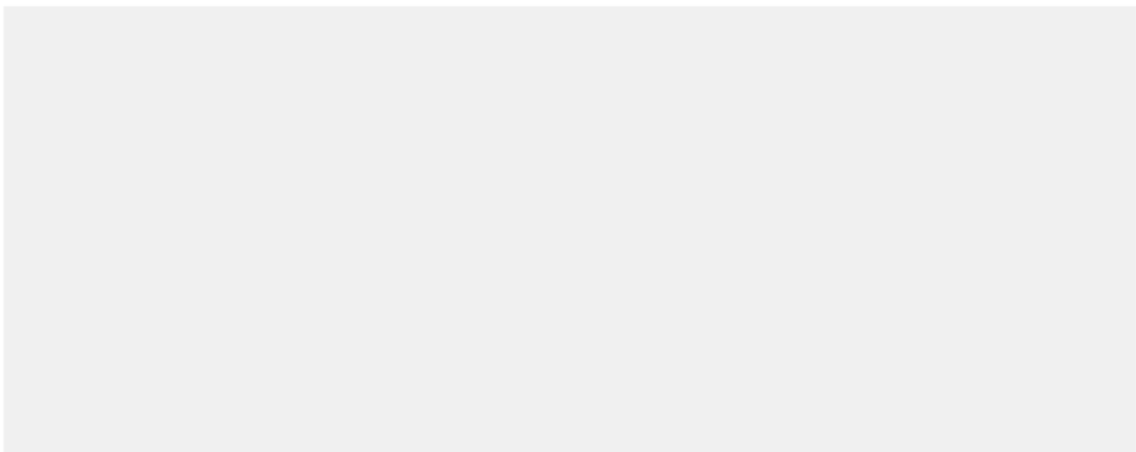
Call for applications now open to municipalities

[FCM's climate change staff grants](#) provide up to \$125,000 to supplement the salary of a new or existing municipal employee who will work on initiatives to improve adaptation to local climate change impacts or reduce greenhouse gas (GHG) emissions.





Feature Event





Join us at our upcoming event - [QUESTtalks: Adaptability - Preparing Your Business for the Changing Energy Market](#) taking place on April 18, 2018, from 11 am to 5 pm at the ENMAX District Energy Centre in Calgary.

The QUESTtalk will examine the changing landscape of the energy sector with the introduction of energy efficiency, renewable energy, energy storage, smart grids, and the emerging dispatchable market. Join us to learn what the businesses and communities, who are leaders in Smart Energy Communities, are doing to adapt to the regulatory, operating, and technological disruptions in the marketplace.

[Register](#), check out the [Preliminary Program](#) and [Updated Speaker Bios](#)

Upcoming Events

QUESTtalks: Adaptability - Preparing Your Business for the Changing Energy Market

Date: April 18, 2018

Location: Calgary, AB

20% discount for QUEST Subscribers

QUEST Leaders Dialogue Meeting

Date: April 18-19, 2018

Location: Calgary, AB

QUEST AB CHP Working Group Meeting

Date: April 19, 2018

Location: Calgary, AB

CAMPUT 2018

Date: May 8-11, 2018

Location: Toronto, ON

Michael Harcourt to present

Smart Communities Connect Forum

Date: May 9, 2018

Location: Toronto, ON

Brent Gilmour to present

conflux Canada |The Convergence of the Environment and the Economy

Date: May 10, 2018

Location: Ottawa, ON

Brent Gilmour to present

20% discount for QUEST Subscribers - Contact Us for the Code

Reshaping Energy 2018: Today and Tomorrow

Conference Board of Canada

Date: May 28-29, 2018

Location: Ottawa, ON

Brent Gilmour to present

Energy Summit 2018

Date: May 30-31, 2018

Location: Vaughan, ON

Michael Lee to present

Window on Ottawa

Canadian Water and Wastewater Association

Date: June 4-5, 2018

Location: Ottawa, ON

Brent Gilmour to present

Building Lasting Change 2018 with WorldGBC Congress Canada

Canada Green Building Council

Date: June 5-7, 2018

Location: Toronto, ON

IDEA2018: Local Solutions, Global Impact

Date: June 11-14, 2018

Location: Vancouver, BC

QUESTtalks: Resilience - Responding to Climate Change - Withstand, Respond & Recover

Date: June 19, 2018

Location: Halifax, NS

20% discount for QUEST Subscribers

QUESTtalks: Security - Protecting Our Infrastructure in a High Tech World

Date: October 2018

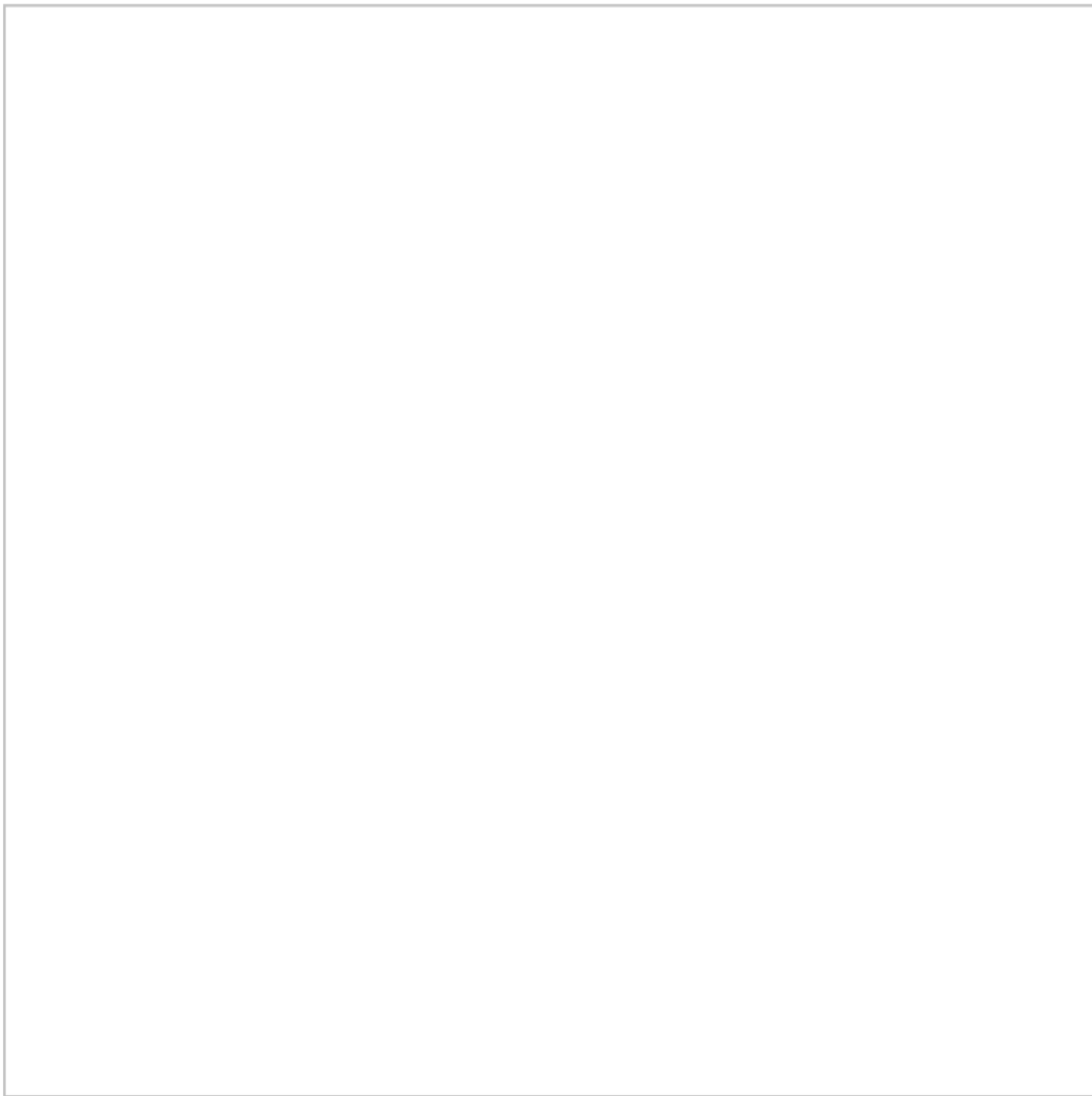
Location: Toronto, ON

date tbd

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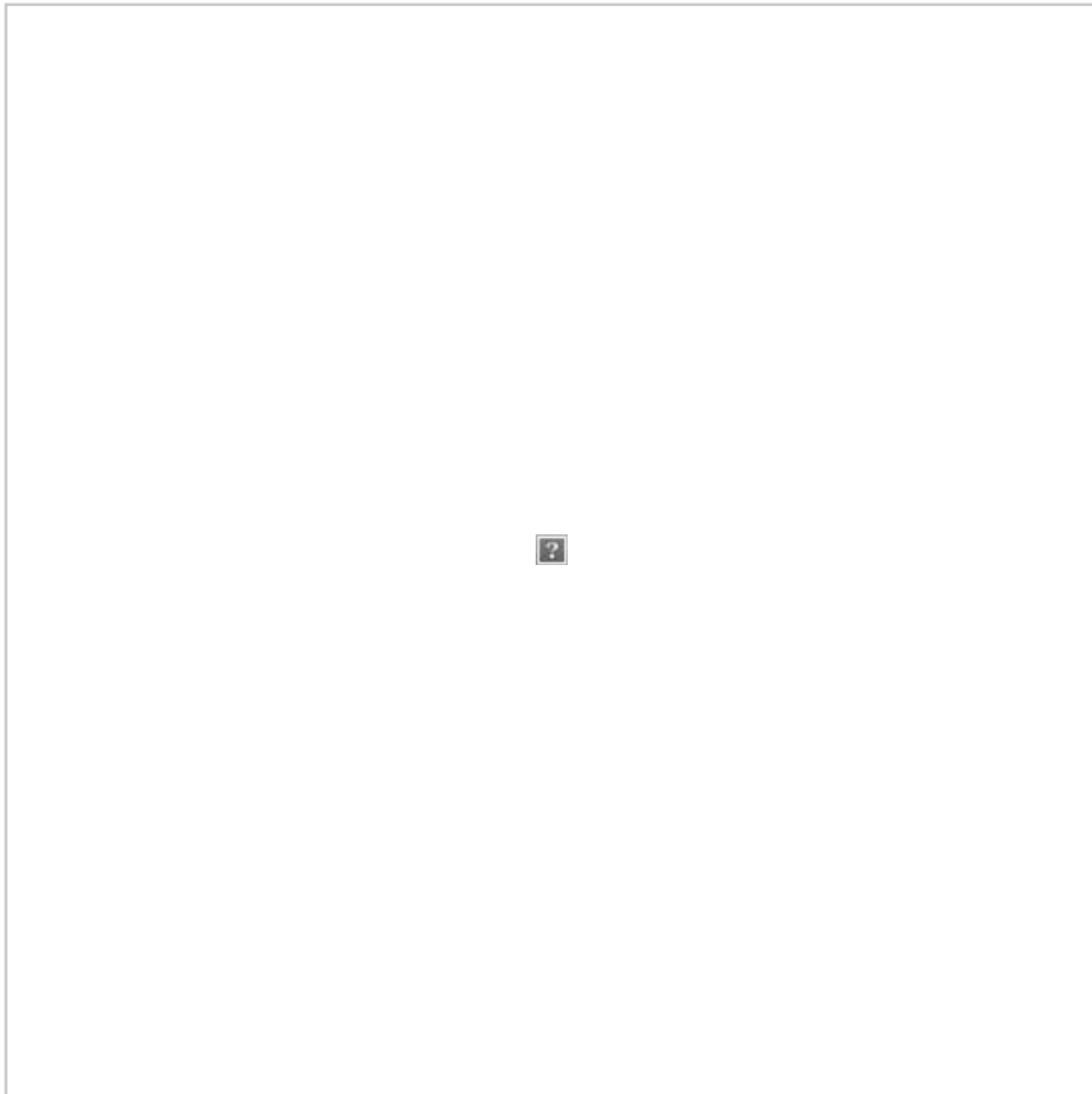
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From: [QUEST](#)
To: [Bedford, Brian MAH:EX](#)
Subject: How the Federal Budget Supports Smart Energy Communities | March Newsletter
Date: Wednesday, March 7, 2018 7:32:30 AM



Newsletter

March edition



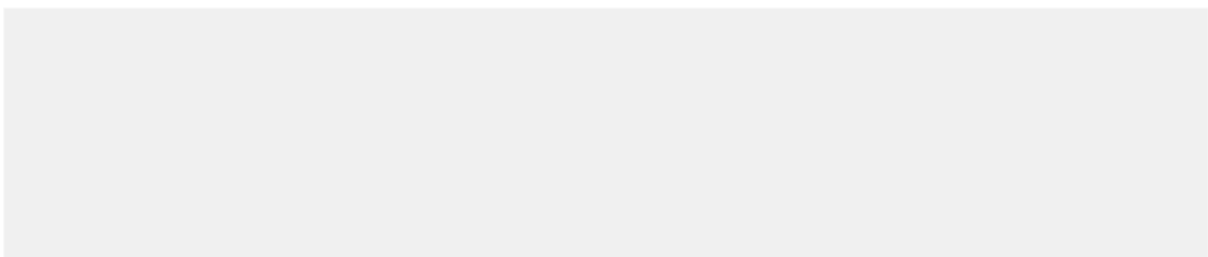
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Forward





How the Federal Budget Supports Smart Energy Communities

By: Brent Gilmour, Executive Director, QUEST

With the release of Federal Budget 2018, there were important commitments for clean technology, Indigenous Communities, and other policy measures, including updates to tax incentives for capital investments that will grow the Smart Energy Communities marketplace.

While support for clean technology remains necessary, just as needed and missing in this budget as well as provincial and territorial budgets, are investments that can support local governments, businesses, utilities, and others to adapt their business and operating models to a low carbon economy and, ultimately, support the establishment of low carbon communities... [Read More](#)

News & Insights

QUEST Will be at GLOBE

QUEST will be at [GLOBE](#) from March 14-16 in Vancouver, BC. It is a forum where business, government, and civil society leaders find inspiration, connections, and new opportunities in the clean economy. We hope to see you there. Contact [Brent Gilmour](#) or [Helen Platis](#) to arrange a time to meet!



The Emerging Market for Renewables in Western Canada

The Alberta and Saskatchewan Renewable Energy Finance Summit which took place in Calgary February 5-6 brought together representatives from across the industry. Local companies met with regional, national and international players to discuss the future of the growing smart energy market...[Read the Blog by Helen Platis](#)

NRCan Funding Program for Rural & Remote Communities

The Clean Energy for Rural and Remote Communities: BioHeat, Demonstration & Deployment Program Streams is seeking proposals that reduce the reliance of rural and remote communities on diesel fuel for heat and power. The program plans to support a suite of diverse projects across Canada. [Learn more](#)



**InstarAGF Essential
Infrastructure Fund
Partners with Creative**



Energy

InstarAGF Asset Management Inc. announced that the InstarAGF Essential Infrastructure Fund has agreed to acquire a 50% equity interest in Creative Energy, a leader in innovative community energy solutions, and form a partnership to develop, finance, renew and manage urban energy infrastructure. The partnership will establish a growing district energy platform ...[Learn more](#)



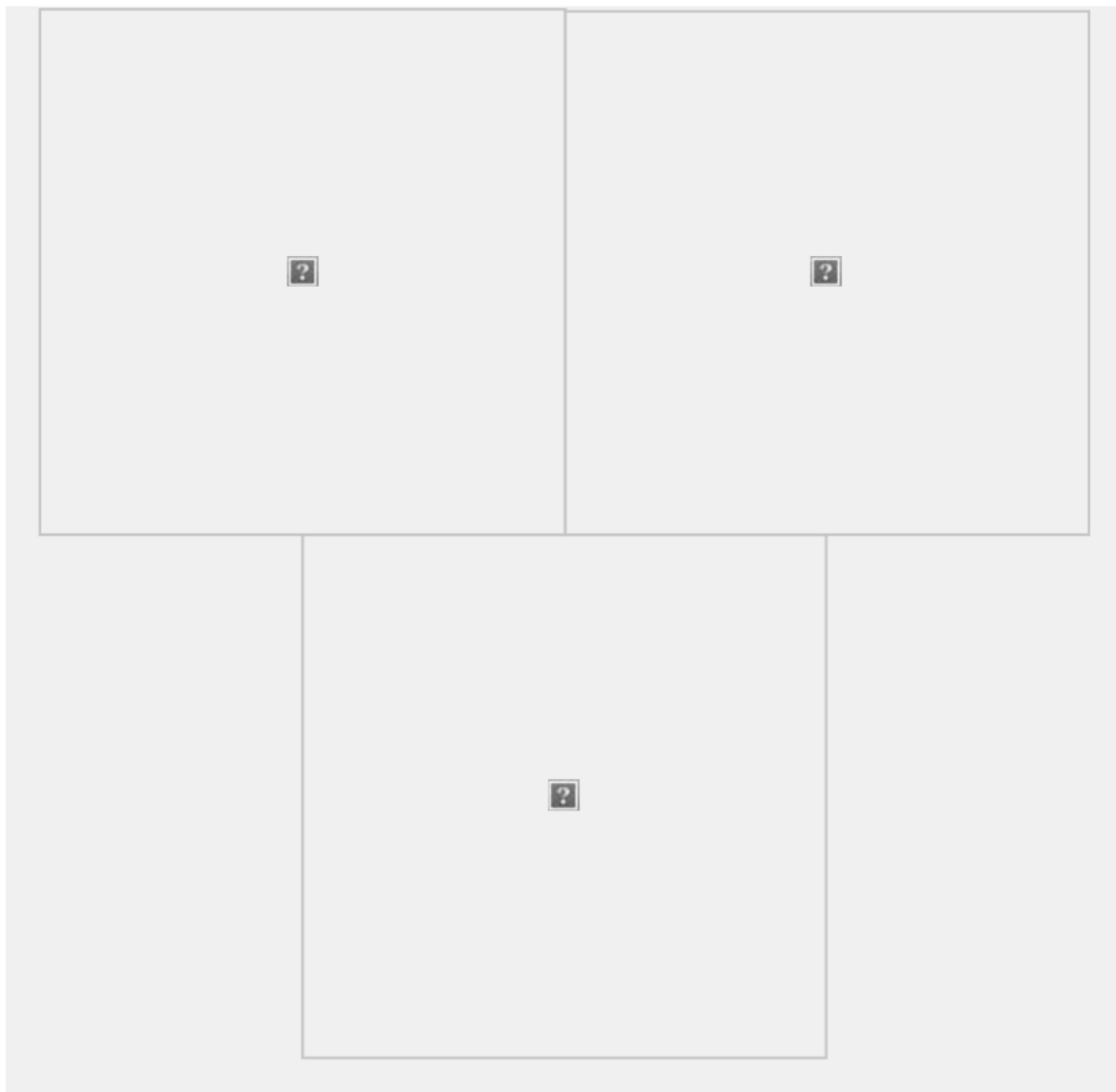
Feature Event



QUEST*talks* is a series of regional networking and accelerator sessions designed to help you stay competitive in the growing Smart Energy Communities marketplace. QUEST*talks* - Disruption and the Smart Energy Communities Solution will bring together leading-edge experts from governments, utilities & energy service providers, the real-estate sector, and the product and professional service sector, among others to examine the issues disrupting your market and community. Register to prepare your business to adapt to the changing energy and infrastructure marketplace.

[Act Quick to Get the Early Bird Rate for QUEST*talks*: Adaptability](#)

[Check Out Sponsorship Opportunities!](#)



Upcoming Events

Climate Forum

Date: March 7-8, 2018

Location: Burlington, ON

Brent Gilmour to present

Nova Scotia Municipal Energy Learning Group Meeting

Date: March 13, 2018

Location: Halifax, NS

QUEST NS Mixer & Energize Bridgewater Toolkit Launch

Date: March 13, 2018

Location: Halifax, NS

Globe Forum

Date: March 14-16, 2018

Location: Vancouver, BC

QUEST ON CHP Consortium Meeting

Date: March 22, 2018

Location: Teleconference/Webinar

2018 Value of Biogas East Conference

Date: March 22-23, 2018

Location: Crowne Plaza Gatineau-Ottawa, ON

RSI 2018 Leadership Summit

Date: March 28, 2018

Location: Toronto, ON

20% Discount for QUEST Subscribers

Contact Us for the Discount Code

QUESTtalks: Adaptability - Preparing Your Business for the Changing Energy Market

Date: April 18, 2018

Location: Calgary, AB

EV2018VÉ

Date: April 24-27, 2018

Location: Ottawa, ON

CAMPUT 2018

Date: May 8-11, 2018

Location: Toronto, ON

Michael Harcourt to present

Smart Communities Connect Forum

Date: May 9, 2018

Location: Toronto, ON

Brent Gilmour to present

conflux Canada |The Convergence of the Environment and the Economy

Date: May 10, 2018

Location: Ottawa, ON

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Reshaping Energy 2018: Today and Tomorrow

Conference Board of Canada

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Location: Ottawa, ON

Brent Gilmour to present

QUESTtalks: Resilience - Responding to Climate Change - Withstand, Respond & Recover

Date: June 2018

Location: Halifax, NS

date tbd

Window on Ottawa

Canadian Water and Wastewater Association

Date: June 4-5, 2018

Location: Ottawa, ON
Brent Gilmour to present

IDEA2018: Local Solutions, Global Impact

Date: June 11-14, 2018
Location: Vancouver, BC

QUESTtalks: Security - Protecting Our Infrastructure in a High Tech World

Date: October 2018
Location: Toronto, ON
date tbd

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From: [QUEST](#)
To: [Bedford, Brian MAH:EX](#)
Subject: Budget 2017 - A Direct Boost for Smart Energy Communities | QUEST Newsletter
Date: Tuesday, April 4, 2017 7:56:38 AM



Newsletter



Feature

Budget 2017 - A Direct Boost for the Smart Energy Communities Marketplace

By Brent Gilmour MCIP RPP, Executive Director, QUEST

The Smart Energy Communities marketplace is growing rapidly with 384 communities, representing more than 50% of the Canadian population, working to improve energy efficiency, reduce greenhouse gas (GHG) emissions and drive economic development through community energy planning.

Budget 2017 provides a direct boost for the Smart Energy Communities marketplace through significant infrastructure and clean technology funding commitments and establishes long awaited predictable sources of revenues for cities and communities,

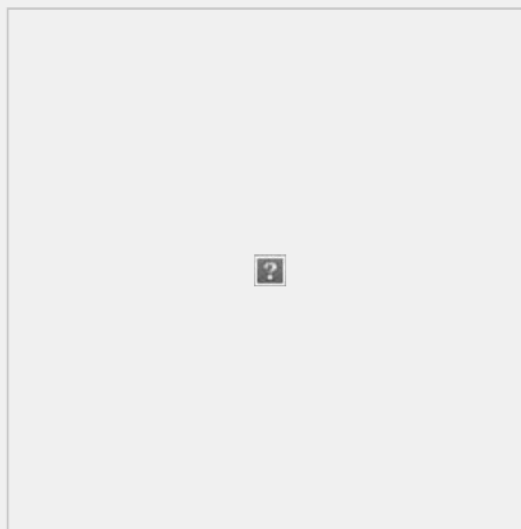
including First Nations.

[READ MORE](#)

News & Insights

QUEST Appears Before Federal Standing Committee on Natural Resources

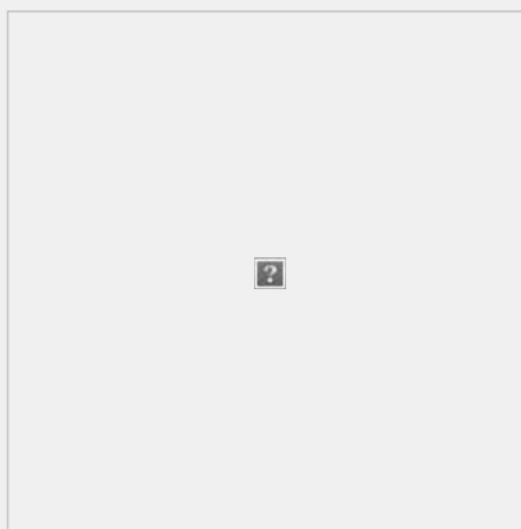
On February 23, 2017 Brent Gilmour, QUEST's Executive Director, presented three key considerations to the the House of Commons' Standing Committee on Natural Resources on Clean Technology. The Standing Committee is conducting an assessment of policy instruments designed to de-risk the adoption of clean technology in Canada's natural resources sectors.



[READ MORE](#)

Community Energy Planning Resources

Now is an excellent time to invest in community energy planning. More than 270 communities, representing 50 percent of the population, have completed a Community Energy Plan (CEP) - that's a 59% increase since 2014. The GTI Initiative has developed a suite of free online research, tools and resources to support CEP development and implementation.



[READ MORE](#)



Feature Event



Registration Open **With Special Discount - Over 30% OFF**

Join us in Ottawa this November! QUEST2017 is your opportunity not just to celebrate Canada's 150th anniversary, but also to work with the Federal Government to drive Smart Energy Communities forward as the key ingredient to achieving Canada's climate change and emissions reduction goals.

[**Register Here**](#)

Upcoming Events

[Energy Innovations Forum 2017](#)

Smart Grid Innovation Network

Date: April 4-5, 2017

Location: Fredericton, NB

Brent Gilmour to present

Reshaping Energy 2017: Opportunities and Impacts of Reducing Canadian GHG Emissions

The Conference Board of Canada

Date: April 11-12, 2017

Location: Ottawa, ON

Brent Gilmour to present

74th National Conference

Canadian Home Builders' Association

Date: May 10-12, 2017

Location: Saint John's, NL

Just Transformations: The Next 150.

Ontario Climate Consortium

Date: May 11-12, 2017

Location: Toronto, ON

Sarah Marchionda to present

Global Learning Forum 2017

Renewable Cities'

Date: May 17-19, 2017

Location: Vancouver, BC

15% OFF discount for the QUEST network - Use Code: **renewablecities-partner-2017**

QUEST NS Caucus Meeting

Date: May 24, 2017

Location: TBD

2017 Annual Conference and Tradeshow

The Federation of Canadian Municipalities (FCM)

Date: June 1-4, 2017

Location: Ottawa, ON

Building Resilience 2017

The Canadian Institute of Planners and the Alberta Professional Planners Institute

Date: June 17-21, 2017

Location: Calgary, AB

QUEST2017

QUEST

Date: November 6-8, 2017

Location: Ottawa, ON
ON

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From: [QUEST - Quality Urban Energy Systems of Tomorrow](#)
To: [Bedford, Brian MAH:EX](#)
Subject: News Release: Smart Energy Communities Market Intelligence
Date: Tuesday, September 20, 2016 11:19:29 AM



September 20, 2016

News Release

Smart Energy Communities Market Intelligence

Ottawa, Ontario - September 20, 2016. QUEST is seeking your participation in a survey which will form the basis of the first ever Canadian Smart Energy Communities Market Intelligence Report.

"The marketplace for Smart Energy Communities has seen exponential growth for almost a decade but understanding of the challenges and opportunities of the marketplace has been a bit like the game of Risk," said Brent Gilmour, Executive Director of QUEST. "Our network has asked for advanced tools and services to establish themselves as leaders, and the 2016 Smart Energy Communities Market Survey will collect critical market intelligence that will be distributed to our network."

But first we need to hear from you!

Advancing Smart Energy Communities requires business partnerships at every turn. At one end of this market is demand primarily from local governments, utilities & energy service providers and the real estate sector, who are looking to advance local energy planning, programming and projects. At the other end and serving this market, is a range of technology, product and service providers.

Your participation will provide community and industry leaders across the country the intelligence they need to better understand the market supply and demand for Smart Energy Communities.

The Smart Energy Communities 2016 Market Report will provide insights into:

- Which sectors are driving the most demand?
- Which products and services are in most demand?
- Which provinces and regions are most active?
- What are some of the barriers and challenges being observed in the market?
- And much more...

All survey participants will receive an advance copy of the report and be offered a special discount to QUEST's annual conference and tradeshow, Smart Energy Communities for Jobs, Infrastructure & Climate Leadership.

To fill out the survey please visit www.questcanada.org/marketreport

About QUEST

QUEST is the leader advancing Smart Energy Communities that reduce GHG emissions, lower energy use, drive the adoption of clean technologies, and foster local economic development in Canada. Established in 2007, QUEST has a national grassroots network including over 10,000 contacts in organizations across Canada from local, provincial and territorial governments, utilities, energy service providers, building and land owners and operators, and clean technology companies working at the community level to advance Smart Energy Communities. Follow us: [@QUESTCanada](#)

For additional information:

Tonja Leach
Director, Communications and National Affairs, QUEST
Tel.: 613-627-2938 x706
E: tleach@questcanada.org

-30-

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From: [QUEST - Quality Urban Energy Systems of Tomorrow](#)
To: [Bedford, Brian MAH:EX](#)
Subject: Catalogue Coming in June
Date: Thursday, March 10, 2016 10:09:24 AM



MARCH 10, 2016

Expertise can be hard to find. Why not have it at your fingertips?



Whether you are a municipality, utility, real estate developer or manager, service provider, industry or government, expertise is needed for every project, program and plan that addresses energy use and emissions reductions at the local level. But where do you look for that expertise?

The **2016 Smart Energy Communities Catalogue** is your go to source for finding the expertise you need – with updated company profiles, project showcases, and contact information for the leading experts advancing Smart Energy Communities in Canada.


Whether you're looking for expertise on community energy planning, building energy efficiency, street lighting, alternative energy systems, project financing, fuel conversion, or much much more, you can count on this one dependable and authoritative source.

Release Date: June 2016

- Grab a free Catalogue at the June meetings of your local [QUEST Caucus](#), or as an insert in the July/August edition of ReNew Magazine
- Have you got expertise to share? [Sign up as a QUEST Subscriber](#) before March 31 to have your company or organization profiled
- [Consult](#) the 2015 Smart Energy Communities Catalogue

Catalogue Pricing

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**Special Offer - QUEST2016
Super Early Bird Rate**



Upcoming Events

Mar 21
[greenprofit - Generating Prosperity with Renewable Energy](#)

Mar 22
[QUEST ON Caucus Meeting](#)
Hosted by the City of Kingston, ON

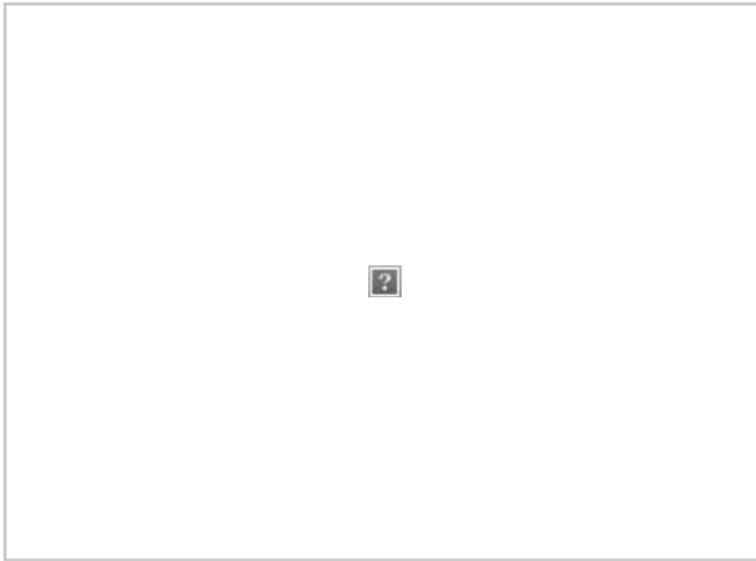
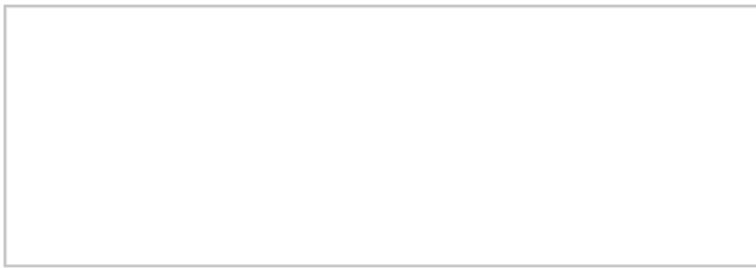
Mar 22
[QUEST BC Caucus Meeting](#)

Mar 30-31
[Transmission + Distribution Excellence](#)
QUEST's Richard Laszlo to present

Apr 12-14
[Adaptation Canada 2016](#)
QUEST's Richard Laszlo to present

May 4
[2nd Annual Summit on the Future of Canada's Utilities](#)

May 16-18



CPA Leadership Summit
*QUEST's Brent Gilmour to
present*

Oct 17-18
QUEST2016
in Calgary, AB

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To: [Bedford, Brian MAH:EX](#)
Subject: QUEST Cross Country Checkup
Date: Wednesday, March 2, 2016 10:03:51 AM



MARCH 2, 2016

QUEST CROSS COUNTRY CHECKUP

With the support of our provincial and territorial Caucuses, QUEST is influencing decision-makers to set policy and take actions that advance Smart Energy Communities in Canada.

QUEST NS CAUCUS



The QUEST NS Caucus has facilitated and is offering advice on the development of the business case for District Energy in the Halifax Cogswell Interchange. Learn more [here](#).

QUEST NB CAUCUS



Through the *Advancing Smart Energy Communities in New Brunswick* initiative, the Caucus is working with municipal decision-makers and utilities across NB to develop and implement Community Energy Plans (CEPs).

Stay tuned for the release of the Community Energy Planning Primer for NB Municipalities, register for the QUEST NB Webinar Series, and learn more about the work of the QUEST NB Caucus [here](#).


QUEST QC CAUCUS




The Community Energy Association, QUEST and Sustainable Prosperity are hosting a *Community Energy Planning: Getting to Implementation* Workshop in Quebec on March 17, 2016. This workshop is free of charge but space is limited. To register please click [here](#).

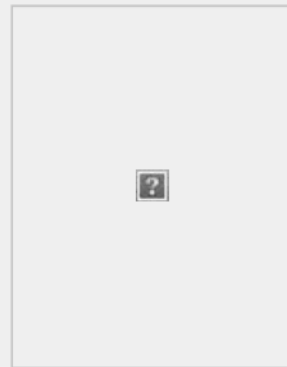
La Community Energy Association, QUEST et La Prospérité durable organisent un atelier-conférence sur la planification énergétique communautaire au Québec le 17 mars 2016. Cet atelier est sans frais mais les places sont limitées. Pour vous inscrire veuillez cliquer sur le lien [ici](#).

QUEST ON CAUCUS

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Secure Your Spot in the 2016 Smart Energy Communities Catalogue!



Upcoming Events

Mar 3
[QUEST NS Caucus Meeting](#)

Mar 4
[QUEST North Caucus Meeting](#)

Mar 21
[greenprofit - Generating Prosperity with Renewable Energy](#)

Mar 22
[QUEST ON Caucus Meeting](#)
Hosted by the City of Kingston, ON

Mar 30-31
[Transmission + Distribution Excellence](#)
QUEST's Richard Laszlo to present

Apr 12-14
[Adaptation Canada 2016](#)
QUEST's Richard Laszlo to present



The Ontario Energy Community of Practice (ECOP) is hosting a series of workshops and developing new training resources designed for the purpose of increasing the capacity of local stakeholders to develop and implement Community Energy Plans. Learn more [here](#).

QUEST AB CAUCUS



QUEST Alberta is at the centre of the province's changing energy and climate landscape, and is providing input to the government through public consultation processes both already underway and soon to be underway. Learn more [here](#).

QUEST BC CAUCUS



On January 28, QUEST and Metro Vancouver co-hosted the 2016 Community Energy Symposium which brought together local governments, energy service providers, and the real estate sector to get a head start on implementing key provisions of the Climate Leadership Plan. Learn more [here](#).

QUEST NORTH CAUCUS



QUEST North is convening energy and community stakeholders from across the three territories to identify projects and partnerships to accelerate community energy planning and get northern communities off diesel. Learn more [here](#).

May 4
[2nd Annual Summit on the Future of Canada's Utilities](#)

May 16-18
[CPA Leadership Summit](#)
[QUEST's Brent Gilmour to present](#)

Oct 17-18
[QUEST2016](#)
[in Calgary, AB](#)

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Subject: QUEST2016 | So Excited About Super Early Bird Registration
Date: Friday, February 26, 2016 9:52:57 AM



February 26, 2016

QUEST2016 - Super Early Bird Discount - \$250 Off!



In 1982 the Pointer Sisters released "I'm so Excited", which immediately raced up the international pop charts. Now, in 2016, QUEST and the QUEST Alberta Caucus are "so excited" to host QUEST's 10th ever Conference & Tradeshow in Calgary in October. To help get you "so excited" too, we have opened registration with a special deal: the first 20 registrations get an additional \$100 discount on the early bird rate.

[CLICK HERE FOR THE SUPER EARLY BIRD DISCOUNT](#)

*Limited to the first 20 registrations

[WATCH THE POINTER SISTERS, "I'M SO EXCITED"](#)

Join up to 400 national and international leaders from Local Government, Utilities & Energy Service Providers, the Real Estate Sector, and Clean Technology & Service Providers for QUEST's 10th anniversary Conference & Tradeshow – where plans are hatched, partnerships are built, and projects are accelerated.

[FIND OUT MORE ABOUT QUEST2016](#)

Sponsorship & Tradeshow Opportunities Available



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Sponsorship & Tradeshow Opportunities Available



QUEST2016 Dates

Mar 16
Call for Presentations Opens

Apr 29
Call for Presentations Closes

Jun 9
Preliminary Program Released

Jun 30
Early Bird Registration Deadline

Oct 17-19
QUEST2016!

Upcoming QUEST Events

Mar 30-31
[Transmission + Distribution Excellence](#)
QUEST's Richard Laszlo to present

Apr 12-14
[Adaptation Canada 2016](#)
QUEST's Richard Laszlo to present

Mar 3
[QUEST NS Caucus Meeting](#)

Mar 4
[QUEST North Caucus Meeting](#)

Is your company a leader in Smart Energy Communities? Get in the spotlight at QUEST2016 – Canada's only event dedicated to bringing together national and international leaders to advance Smart Energy Communities.

Opportunities

\$15,000 GOLD Sponsorship
\$10,000 SILVER Sponsorship
\$5,000 BRONZE Sponsorship
\$2,000 Tradeshow Booth
\$2,500 Corporate Table at the GALA Dinner & Awards Ceremony

[LEARN MORE ABOUT SPONSORSHIP AND TRADESHOW OPPORTUNITIES](#)

Mar 21
[greenprofit - Generating Prosperity with Renewable Energy](#)

Mar 22
[QUEST ON Caucus Meeting](#)

May 4
[2nd Annual Summit on the Future of Canada's Utilities](#)

May 16-18
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QUEST's Brent Gilmour to present

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To: [Bedford, Brian MAH:EX](#)
Subject: You're Invited to the QUEST Reception
Date: Thursday, February 4, 2016 8:52:46 AM



February 4, 2016

Join Us for the Launch New GTI Report - Community Energy Planning: The Value Proposition



Price: Free

Date: Wednesday February 10, 2016

Time: 7pm Eastern

Location: Métropolitain Brasserie, 700 Sussex Drive, Ottawa

No RSVP necessary

Taking place at the 2016 FCM Sustainable Communities Conference, the QUEST Reception will launch the new GTI report, entitled *Community Energy Planning: The Value Proposition*, and you're invited.

The report identifies that Canadian communities have untapped opportunities to strengthen local economies, reduce current and future energy costs and emissions, and create jobs by investing in smarter and more integrated approaches to energy use at the local level.


Join us at the reception to be the first to see the report, build partnerships, and discuss opportunities for strengthening local economies through community energy planning.


GTI is a collaborative initiative being spearheaded by the leading community energy experts in Canada. It's about helping communities get to implementation. To learn more about the initiative visit <http://gettingtoimplementation.ca/>



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Upcoming Events

Feb 5
[FCM Big City Mayors Caucus Meeting](#)
QUEST's Brent Gilmour to present

Feb 5
[QUEST NB Webinar: Engaging NB Communities within PCP](#)

Feb 9-11
[QUEST Reception at the FCM Sustainable Communities Conference](#)
Join us for the Launch of the New GTI Report!

Feb 15
[QUEST NB Webinar: Falls Brook Centre's Work Over the Past Year](#)

May 4
[2nd Annual Summit on the Future of Canada's Utilities](#)

Mar 15-16
[Salon des tech](#)

Mar 30-31
[Transmission + Distribution Excellence | Innovating the Future](#)
QUEST's Richard Laszlo to present

Apr 12-14
[Adaptation Canada 2016 National Symposium on Climate Change Adaptation](#)
QUEST's Richard Laszlo to present

Oct 17-18
[QUEST2016](#)
in Calgary, AB

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Subject: News Release | QUEST 2015 Community Energy Builder Award Winners
Date: Thursday, October 29, 2015 1:41:06 PM



October 29, 2015

City of Guelph, Enmax Corporation and Windmill Developments Win QUEST 2015 Community Energy Builder Awards

Ottawa, Ontario – October 29, 2015

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For additional information

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From: [QUEST - Quality Urban Energy Systems of Tomorrow](#)
To: [Bedford, Brian MAH:EX](#)
Subject: QUEST Caucus Update | What is Happening in ON & AB?
Date: Friday, October 16, 2015 9:00:00 AM



October 16, 2015



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ECOP Resources Now Available!



The *Ontario Energy Community of Practice* (ECOP) initiative has just released a set of resources to support community energy planning activities in Ontario. These resources include a collection of videos and user-friendly training modules. While this initiative is specific to Ontario it may have application across the country.

- Access ECOP Resources [HERE](#)

Submission to the Alberta Climate Change Advisory Panel



The QUEST AB Caucus hosted *How Smart Energy Communities Can Help Meet Alberta's Climate Goals* on September 28, 2015 in Edmonton, AB. As a result of the feedback from this session, QUEST submitted 9 Recommendations to the Province of Alberta for how Smart Energy Communities should be part of Alberta's Climate Plan.

- Download QUEST's recommendations [HERE](#)
- Save the Date for the QUEST AB Caucus Meeting - November 17th

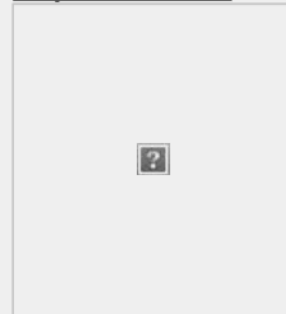


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[Upcoming Events](#)

Oct 21-22
[13th Annual Atlantic Canada Energy Summit](#)
QUEST's Richard Laszlo to Present

Oct 22
[The Future of Energy: Improving Business Operations & Environmental Performance](#)
QUEST's Brent Gilmour to Present

Oct 26-28
[QUEST2015: Getting Smart About Energy in Our Communities](#)

Nov 6
Positive Energy Dialogue
QUEST's Michael Harcourt to Present

Nov 17
[QUEST AB Caucus Meeting](#)

Nov 25
[Canadian Energy Person of the Year Celebration Event](#)
Recipient - QUEST's Michael Cleland

Page 298 of 298

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