



PROGRAM

GLOBAL LEARNING FORUM

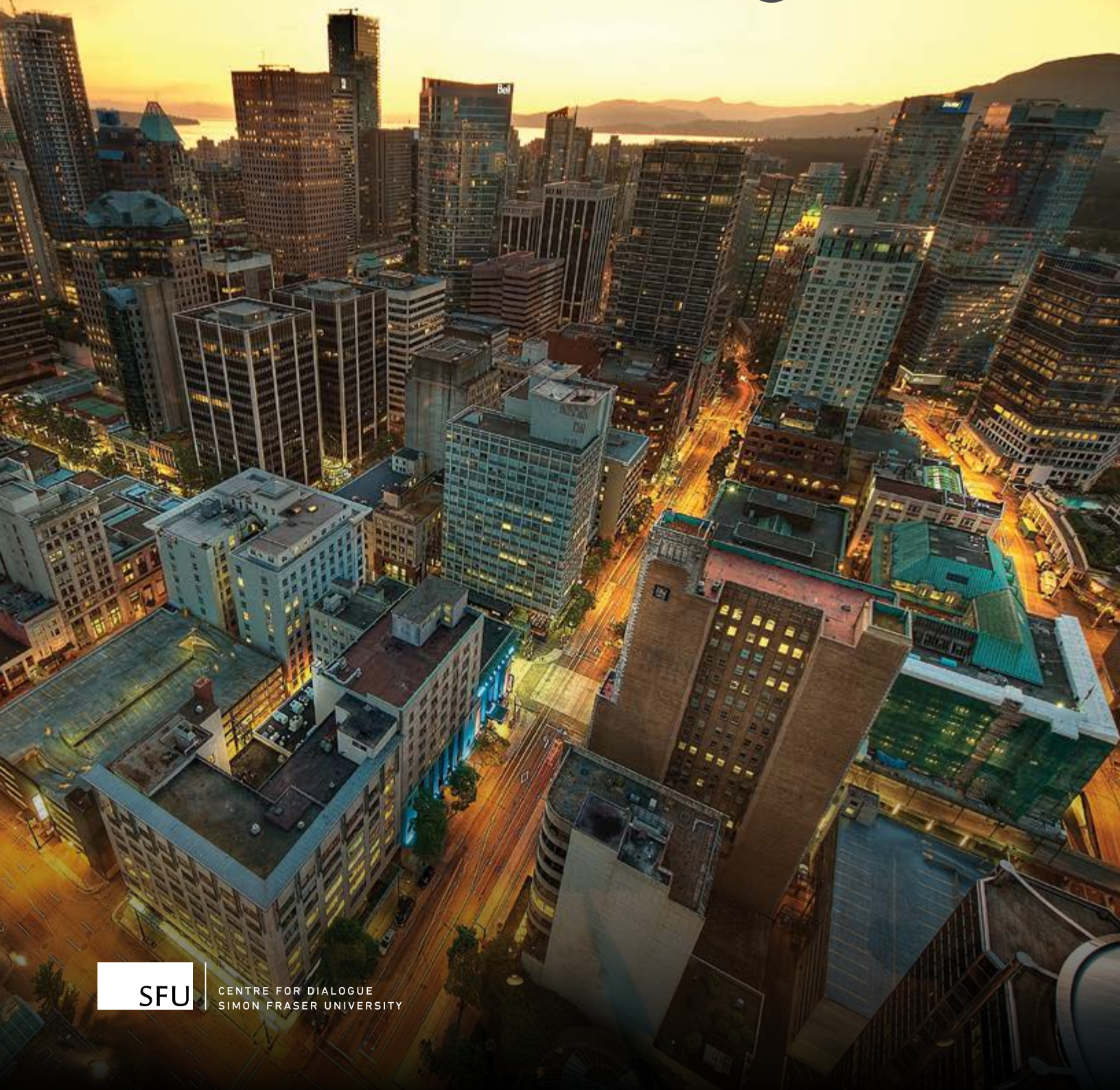
MAY 13-15

VANCOUVER, BC

FORUM.RENEWABLECITIES.CA



#RECITIES



SFU

CENTRE FOR DIALOGUE
SIMON FRASER UNIVERSITY

FUNDERS AND PARTNERS

Funders



Partners



Media Partners



TABLE OF CONTENTS

WELCOME TO RENEWABLE CITIES	4
REGISTRATION	5
OPENING NIGHT	5
FORUM FORMAT	6
CAPACITY BUILDING SESSIONS	6
ACCESSING CAPACITY BUILDING SESSIONS	7
TERMS OF ENGAGEMENT FOR CAPACITY BUILDING SESSIONS	7
RENEWABLE CITIES CAFE	8
WI-FI	8
HASHTAG	8
MEALS AND REFRESHMENTS	8
TRAVEL INFORMATION	8
OUTCOMES AND WHAT'S NEXT	9
MAKING THE MOST OF THE FORUM	9
PROGRAM SCHEDULE	10
MAY 13	10
MAY 14	11
MAY 15	19
BIOGRAPHIES OF SPEAKERS AND SESSION LEADERS	23
STAFF BIOGRAPHIES	36
ACKNOWLEDGEMENT AND CREDITS	38

WELCOME TO RENEWABLE CITIES

Welcome to Renewable Cities Global Learning Forum! Renewable Cities is a new program of Simon Fraser University's Centre for Dialogue. While this program is less than a year old, it builds on the Centre's last five years of experience working with Canadian municipalities on low-carbon solutions and policies.

Through this work it became increasingly evident to us that cities have tremendous scope to exercise national and international leadership in climate change action. How cities plan for their future energy mix is a major positive driver of change to respond to the challenges of climate change.

Through Renewable Cities, our aim is to support cities around the world that seek to adopt and implement ambitious goals for increasing their use of renewable energy. We call such cities "renewable cities." Renewable cities are also sustainable and resilient. The close interconnections between all these concepts are ones we hope to explore in this Forum.

This Global Learning Forum is the first major undertaking of Renewable Cities. We have invited cities from across Canada and around the world to come to Vancouver for the Forum. We are delighted that two major international city networks—C40 and the USDN—have convened their own meetings in Vancouver this week to enable many of their expert participants to join our Forum.

As an SFU Centre for Dialogue event, dialogue is at the heart of how this Forum has been designed. Dialogue entails a concentrated conversation among actors in which mutual learning and sharing of different kinds of expertise are encouraged. Whether the issues under discussion at this Forum are entirely new to you, or you have been working on them for years, we firmly believe that every participant is an expert and everyone should be able to contribute their expertise through dialogue. We have structured the Forum around this vision. We will have succeeded if at the end of the two days you have both learned from and contributed to the Forum discussions.

Finally, let me say a word about our home city, Vancouver. Known the world over for its spectacular natural setting on Canada's Pacific coast, Vancouver has also made the commitment to become the world's greenest city by 2020. More recently, it has joined the growing movement of cities that are planning to transition to 100% renewable energy. This Forum is an important learning opportunity for the City of Vancouver to learn from all of you about how it can achieve these ambitious goals.

I hope you enjoy the Forum!



Michael Small,
Executive Director, Renewable Cities
SFU Centre for Dialogue



CENTRE FOR DIALOGUE
SIMON FRASER UNIVERSITY

REGISTRATION

All Global Learning Forum participants, speakers, panelists, staff, and media must register at the Forum registration desk at the Four Seasons Hotel. You will receive a printed copy of this program in the welcome package, therefore you ***need not print this program***. Your welcome package will also include a name tag, which grants you access to the Global Learning Forum. Please have photo identification with you as you may be asked to provide it during registration.

Four Seasons Hotel: 791 W Georgia St, Vancouver, BC (Map: bit.ly/fourseasonsvancouver)

Registration desk location: Adjacent to the Ballroom Foyer, second floor of the hotel

Registration desk opens: Wednesday, May 13 at 3:00 PM to 6:PM

Thursday, May 14 from 7:30 AM to 4:00 PM

Friday, May 15 from 7:30 to 10:00 AM

For participants arriving at the Four Seasons prior to the opening night event, we will be guiding groups to the Djavad Mowafaghian Cinema, SFU Woodward's at 6:00, 6:15, and 6:30 PM (a 15-minute walk). Please see the registration desk for details.

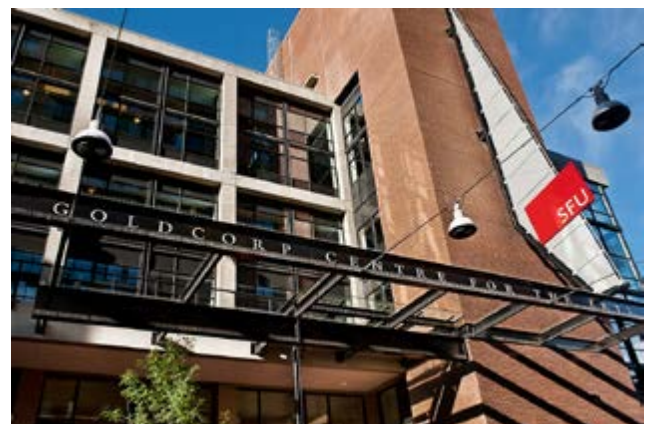
OPENING NIGHT

The Global Learning Forum opens with an inspirational opening night event, [*Renewable Cities Powered by PechaKucha*](#). The opening night event will be a series of rapid-fire presentations by a selection of our speakers in the trademarked format called "Powered by Pecha Kucha." Each speaker presents 20 slides and speaks to each slide for 20 seconds. It is intended to be educational and fun!

Location: Djavad Mowafaghian Cinema, SFU
Woodward's, 149 West Hastings Street,
Vancouver, BC (Map: bit.ly/sfuwoodwards)

Event time: Wednesday, May 13 at 7:00 to 8:40 PM

Following the opening night event there will be a reception at the World Art Theatre on the 3rd floor. Volunteers will guide you to this location.



FORMAT OF THE GLOBAL LEARNING FORUM

PLENARY SESSIONS

Plenary sessions will be held in the Ballroom of the Four Seasons and are open to all participants. Here, panelists will discuss high level topics that are relevant to energy and urban sustainability. These plenary sessions are open: you may record or attribute anything you hear. Furthermore, we encourage you to ask questions when appropriate and take part in the conversation online by joining the **#REcities** hashtag on Twitter.

CAPACITY BUILDING SESSIONS

Capacity building sessions are the core of the Global Learning Forum and are held in breakout rooms on the third floor. Throughout the course of the event, the small group sessions become increasingly interactive and collaborative. The three types of sessions include:

Knowledge Mobilization: This type of session has a The session leader who presents an issue or innovation and hosts a discussion among expert participants.

Peer to Peer: In these sessions, the session leader guides participants through a facilitated dialogue based on a set of guiding questions.

Intent to Action: These highly interactive workshops are built around a scenario, strategy, or planning tool. Participants then work through the barriers to uncover potential ways to move cities forward on renewable energy.



ACCESSING CAPACITY BUILDING SESSIONS

Dialogue is most effective when everyone has the opportunity to contribute by asking questions or providing content. Consequently, each capacity building session is being kept to a small number of participants.

To gain access to a particular capacity building session, you will need to pick up a session access pass beforehand. The number of passes for each particular session is limited and will be allocated on a first come, first served basis. We appreciate that you may not gain access to all of your first choice sessions. However, with the number of offerings, you can be confident that you'll find an appealing alternative. Please only attend sessions for which you have picked up an access pass. The access pass indicates the breakout room in which the given session takes place. You may be asked to show the access pass to staff in the breakout room.

PASSES AVAILABLE

Knowledge Mobilization sessions: 7:30 AM on Thursday, May 14 (Please remember to pick up access passes for both Knowledge Mobilization sessions as they are back to back)

Peer to Peer sessions: 12:30 PM on Thursday, May 14

Intent to Action sessions: 7:30 AM on Friday, May 15

Location: Desk between the Ballroom Foyer and registration table

On the back of your access pass is a feedback form. Following the session, please complete the form so we can evaluate the dialogue. You will be asked by staff in the room to return the access card/feedback form.

TERMS OF ENGAGEMENT FOR CAPACITY BUILDING SESSIONS

1. The focus is on dialogue not debate.
2. Hat's off: Each participant is here as an individual and is not speaking on behalf of their business or organization.
3. Confidentiality: Our capacity building sessions follow the Chatham House Rule that, "participants are free to use the information received, but neither the identity nor the affiliation of the speaker(s), nor that of any other participant, may be revealed."
4. Step up or step back: all participants are encouraged to speak and all participants are requested to give each other the opportunity to speak.

RENEWABLE CITIES CAFE

The Global Learning Forum is a unique opportunity to learn from global leaders and your peers—you're encouraged to meet and network with other participants informally. To facilitate networking and impromptu meetings, we've set up the Renewable Cities Cafe. It's a place for you to collaborate, send emails, or just relax. This will be the venue for the One to One Networking session.

Location: In the Chartwell Room on the second floor of the Four Seasons.

SITE VISITS

We have scheduled four site visits for participants of the Global Learning Forum. The site visit on Wednesday, May 13 to Innergex Ashlu Creek is now full and all attendees have been notified. Three more site visits are available on Friday, May 15 from 3:00 to 6:00 PM. To gain access to a particular site visit on Friday, May 15, you will need to pick up a site visit access pass **before 3:00 PM on Friday, May 15** at the access pass desk. The number of passes for each particular site visit is limited and will be allocated on a first come, first serve basis.

WI-FI

Guests of the Four Seasons Hotel have complimentary wi-fi as a part of their stay. Global Learning Forum participants will be able to access the hotel's public wi-fi in corridors and public areas of the hotel. Please note there is no free wi-fi access in the Ballroom or the capacity building session rooms. If you have a mobile device with roaming access, it will function normally throughout the hotel.

HASHTAG (TWITTER)

The official Twitter hashtag for the Global Learning Forum is #REcities. Renewable Cities' Twitter handle is @renewablecities

MEALS AND REFRESHMENTS

Your Global Learning Forum registration includes the following meals and refreshments:

Wednesday, May 13: Opening night reception

Thursday, May 14: Breakfast, lunch, coffee breaks, and early evening reception

Friday, May 15: Breakfast and lunch

TRAVEL INFORMATION

See forum.renewablecities.ca/travel

OUTCOMES AND WHAT'S NEXT

We intend to document the ideas generated by this Forum as fully as possible. All PowerPoint presentations for the panels and workshops will be posted on our website. Key points from the discussion in the plenary and capacity building sessions will be summarized as well. In addition, we will produce our own synthesis report of the Forum's plenary sessions and capacity building sessions on our website no later than June 30.

A series of short videos will record conversations between select participants, as well as the opening night Renewable Cities Powered by PechaKucha, which will be publicly available on our website following the Forum. Audio recordings from the plenary sessions will also be recorded and posted. All participants will be notified via email once these materials are online.

Program website: www.renewablecities.ca

Global Learning Forum website: forum.renewablecities.ca

MAKING THE MOST OF THE FORUM

Get informed: Read our primers on various energy technologies at www.renewablecities.ca/primers

Participate in the Directory of Participants: To facilitate networking, we have created a Directory of Participants that contains basic contact information, biographies, and answers to two questions. The directory is available online through a password protected portal and in print at the registration table. If you have not already done so, we recommend that you take part in the directory. For information on how to participate in or view the directory, check your email for instructions that have been sent to you (messages from "info@renewablecities.ca").

One to One Networking: Want to sit down with a key urban innovator or thought leader? We are facilitating One to One Networking from 4:00 PM onwards on Thursday, May 14 in the Renewable Cities Cafe. You'll have the opportunity to sign up for a 20-minute block of time with one of the available discussants. For more information, or to sign up, visit the Renewable Cities Cafe.

Use Social Media: Follow [@renewablecities](https://twitter.com/renewablecities) and join the conversation at #REcities on Twitter.

Get out in Vancouver! Vancouver is one of the world's most livable cities and is situated between mountains and ocean. Moreover, Vancouver aims to be the greenest city in the world by 2020 and is home to a number of environmental initiatives, green buildings, cleantech companies, and excellent public transportation. For more information on tourist opportunities or touring green initiatives to visit, see forum.renewablecities.ca/vancouver

PROGRAM SCHEDULE

MAY 13

8:00AM

ASHLU CREEK MOBILE WORKSHOP (FULL)

3:00PM

REGISTRATION

7:00PM

OPENING NIGHT EVENT

Renewable Cities Powered By PechaKucha

- Shauna Sylvester, Director, *Centre for Dialogue, Simon Fraser University*
- Ross Beaty, Executive Chairman, *Alterra Power*
- Mark Jacobson, Director, *Atmosphere and Energy Program, Stanford University*
- Esperanza Garcia, Founder and CEO of *Clean Tech Impact*
- Harry Lehmann, Head of Division, Environmental Planning and Sustainability Strategies, *German Federal Environment Agency (UBA)*
- Bárbara Rubim, *Campaigner, Climate and Energy, Greenpeace Brazil*
- Merran Smith, Executive Director, *Clean Energy Canada*
- Chris Henderson, President, *Lumos Energy* & Board Chair, *Globe Conference and Exposition*
- Zachary Shahan, Director, *Cleantechnica*
- Robert Ferry & Elizabeth Monoian, Founders, *Land Art Generator Initiative*
- Sadhu Johnston, Deputy City Manager, *City of Vancouver*



Location: Djavad Mowafaghian Cinema,
SFU Woodward's, 149 West Hastings St.
(doors: 6:30PM)

8:40PM

OPENING NIGHT RECEPTION

"Powered by PechaKucha" events are one-off events that are separate from regular city-based PechaKucha Nights, and are usually held as part of festivals and conferences, but can also act as standalone events. These events include presentations that use the PechaKucha 20 images x 20 seconds format. Find out more at PechaKucha.org.

MAY 14

7:00AM

BREAKFAST

8:00AM

WELCOME

- Shauna Sylvester, Director, *Centre for Dialogue, Simon Fraser University*
- Michael Small, Executive Director, *Renewable Cities, SFU Centre for Dialogue*

8:10AM

PLENARY SESSIONS

Renewable Energy Global Status Update and Trends

This panel of global experts will share their experiences and host a discussion with forum participants about the latest trends in renewable energy and energy efficiency.

- **Moderator:** Merran Smith, Executive Director, *Clean Energy Canada*
- Marietta Sander, Executive Director, *International Geothermal Association and Partner, International Renewable Energy Alliance*
- David Renné, President, *International Solar Energy Society*
- Rob Thornton, President & CEO, *International District Energy Association*
- Mark Jacobson, Director, Atmosphere and Energy Program, *Stanford University*
- Harry Lehmann, Head of Division, Environmental Planning and Sustainability Strategies, *German Federal Environment Agency (UBA)*

9:00AM

Vancouver's story: Energy and the Greenest City Action Plan

A Renewable Cities partner and the host city for the Global Learning Forum, the City of Vancouver recently announced a commitment to 100% renewable energy in electricity, heating and cooling, and transportation. Mayor Gregor Robertson and Deputy City Manager Sadhu Johnston will seek advice on how Vancouver should plan to meet this goal.

- **Moderator:** Shauna Sylvester, Director, *SFU Centre for Dialogue*
- Mayor Gregor Robertson, *City of Vancouver*
- Sadhu Johnston, Deputy City Manager, *City of Vancouver*

10:00AM

COFFEE BREAK

10:30AM

KNOWLEDGE MOBILIZATION SESSIONS

1. Walk the talk: The City of Copenhagen as a leader in the green transition

As Head of Department, Citywide Strategies at the *City of Copenhagen*, Brian Hansen sets out clear objectives for renewable energy and energy efficiency in Copenhagen's plan to be the world's first carbon-free capital by 2025. In this session, participants will learn about Copenhagen's strategies to buy carbon-free energy and to minimize energy consumption to reach 100% renewable energy. The group will consider what elements of the city's plan can be applied to their own cities.

2. Life is an electric highway: A review of successful EV uptake policies globally

Through his work as an Assistant Professor at *Simon Fraser University*, Jonn Axsen researches which implementation policies successfully stimulate EV uptake. With an eye on global trends, Axsen will share with participants what he has uncovered about transportation planning: What upper level government policies change consumer behaviour? How can cities tap into policies that support EV infrastructure?

3. Aesthetics, integration, and building public support for urban renewables

Energy is part of our everyday lives, and we generally ignore it... until it lands in our backyards. Robert Ferry & Elizabeth Monoian, Founders of the *Land Art Generator Initiative*, bring energy projects out into the public by integrating them in the form of public art pieces. In this session, Ferry and Monoian offer alternative designs that are welcomed to cityscapes for their artistic appeal.

4. Building citizen and political will for 100% renewable energy: Global learnings from Germany's energy transition

Examples around the world prove that 100% renewable energy is technically and economically viable. However, the lack of political will often hinders its implementation. Germany's national Feed-in Tariff policy has sparked a major movement by citizens and communities to become independent energy producers and to own energy infrastructure. New business models have emerged for individuals, local governments, and regional enterprises to gain major revenues in addition to saving money from reducing fossil fuel imports. In this workshop, Anna Leidreiter, Senior Program Manager, Climate and Energy, *World Future Council*, Bertram Fleck, Chief Administrative Officer, *Rhein-Hunsrueck County, Germany*, and Pia Buschmann, Project Manager, *deENet*, will present learnings from case studies of Germany's *Energiewende* (Energy Transition) and offer ideas on how other cities can adapt the *Energiewende* model.

10:30 AM

5. Realities of renewable energy implementation in cities: A financing and policy perspective

In this session, Bertine Stelzer, Program Manager, *Sustainable Cities International (SCI)* will explain the ways that *SCI's* Energy Lab of works with cities like Durban, South Africa, and New Westminster, BC, to help them realize plans for green buildings and local sustainable energy projects. By partnering cities with others around the world, SCI develops unique collaboration opportunities. Learn how Leshan Moodliar, Senior Engineer, *City of Durban*, and Norm Connolly, Community Energy Manager, *City of New Westminster*, seek similar energy goals in very different contexts. Facilitator: Jane McRae, Executive Director, *SCI*

6. Climate change: Investment risks and opportunities for institutional investors

Karen Lockridge, Principal, *Mercer*, supports the integration of sustainability and climate change across Mercer's business lines—particularly in the area of investments. Unlike traditional investment risks, climate change risks require different measurement and management tools. Learn about Mercer's latest work on integrating climate change risks and opportunities into the investment process.

7. "Smart Cities": Not your only option

Mark Roseland, Director, Centre for Sustainable Community Development, *SFU*, wants to make sure we understand that "Smart Cities" is a brand. It is only one of many planning frameworks that are available to cities. Roseland will illustrate how a city can assess these tools and proposes that combining them might be the best solution. Participants will consider how market forces could be changed from competitive to cooperative in the interest of providing the best planning framework for a city.

8. Overcoming barriers to district energy development: Experience from C40 cities

Brian Crowe, Director, Water, Sewers, and District Energy, *City of Vancouver*, and Simon Wyke, Principal Policy and Programme Officer, *City of London, UK*, are teaming up in this session to share their experiences with district energy. By capturing waste heat from Vancouver's sewers and London's subway system, these two cities turn inefficiencies into opportunities. The discussion following the presentation of these case studies is open for participants to learn about the practicalities of installing district energy in existing urban infrastructure.

11:30AM

KNOWLEDGE MOBILIZATION SESSIONS

9. Solarizing schools in Brazil and showcasing social benefits of renewables projects in poor communities

Bárbara Rubim, Climate and Energy Campaigner, *Greenpeace Brazil*, is putting solar panels on school roofs and sees these not only as energy projects, but also as education and development opportunities for the whole community, especially the students. Rubim will discuss the ways these projects illustrate the importance of proactive state policies in accelerating renewable energy installations.

10. Leading the world: C40 city successes in energy, transport, and finance

C40 cities learn from one another to overcome barriers to renewable energy and energy efficiency and achieve their climate mitigation goals. In this session, Shannon Lawrence, Head of Energy Initiative, *C40*, will highlight how leading cities have drawn from the experience of their peers and partners in energy, transport and finance to move more quickly and effectively towards a low-carbon future. Chris Derksema, Sustainability Manager for the *City of Sydney*, will provide a more detailed look into his city's energy achievements and discuss how Sydney is working with C40 to share lessons across the network.

11. State/provincial level tools to enable local government action on mitigation

Ben Clark, Senior Climate Action Analyst, *Climate Action Secretariat, BC Ministry of the Environment*, and Svend Andersen, CEO, *GHG Accounting Services*, work on climate change mitigation. They have identified national and state/provincial level tools that offer opportunities for cities to mitigate the impacts of climate change.

12. Unlikely stories: Coal country, jobs, urban renewal, and renewable energy

Bob Dixon, Mayor, *Greensburg, Kansas*, had the unfortunate experience of watching a tornado flatten his town. Faced with the choice to recreate what was lost or to turn disaster into opportunity, the community collectively decided to not simply rebuild, but to greenbuild: from sourcing materials to supporting a green economy. Mayor Dixon will share Greensburg's story about redefining the city's goals and changing minds about energy choices, including his own.

13. Working with citizens and politicians for ambitious renewable energy targets: Perspectives from developed and developing countries

Esperanza Garcia, Founder/CEO, *Clean Tech Impact*, is known for mobilizing young entrepreneurs and amplifying youth voices calling for governments to take action on climate change. Learn about Garcia's work in negotiating and educating stakeholders in energy projects, and how her experiences can help you develop your city sustainably.

11:30AM

14. Beyond benchmarking: Using data to drive energy efficiency action

Beyond benchmarking: Using data to drive energy efficiency action *City of Seattle's* Christie Baumel, Energy Policy Advisor, Office of Sustainability & Environment and Rebecca Baker, Manager, Benchmarking Program, have ambitious climate action goals and reams of data benchmarking defining the performance of their city's building stock. Join them to learn how they are applying data to motivate building operators to save energy. Discuss strategies to encourage action and provide input on next generation policy approaches.

15. Lessons from Japan: Sharing experiences from the City of Yokohama on renewable energy and energy management

Toshinori Mishima, Assistant Manager, Climate Change Policy Headquarters, *City of Yokohama*, and Matthew Yoshitake, Owner, *Cascadia Ecohomes*, will discuss innovative policies for improving investment in energy efficiency from Japan.

16. Energy efficiency: What the IEA calls "the first fuel" for cities

Patricia Lightburn helped coin the term "First Fuel" when the IEA published its inaugural energy efficiency market report in 2013. It became apparent that energy efficiency has been developing as an industry in its own right, and that investment in energy efficiency is proving to be economically competitive. Learn how to evaluate the impacts of "First Fuel" in your city's energy planning.

12:30PM

BUFFET LUNCH

1:00PM

PLENARY SESSION (LUNCH PANEL)

Innovative Financing for Urban Renewables

The technology is available and cities are ready, but how are they to pay for new energy infrastructure? What are the financial risks and who takes them on? How do citizens and governments adapt their decisions about new and existing infrastructure to accommodate renewable energy? In this session, experts from a city-owned utility, a global finance group, an energy cooperative, and a private energy producer will host a discussion with participants about the business case for renewable energy.

- **Moderator:** Brock Carlton, CEO, *Federation of Canadian Municipalities*
- Ken Nolan, Manager of Power Resources, *City Electric, Burlington, Vermont*
- Ross Beaty, Executive Chairman, *Alterra Power Corporation*
- Karen Lockridge, Principal, *Mercer*
- Matt Zipchen, General Manager, SolarShare, *TREC Renewable Energy Cooperative*

17. **Dispelling doubt: How 100% RE is practical and achievable for municipal policymakers**

In this session, José Etcheverry, Professor and Co-Chair, Sustainable Energy Initiative (SEI), *York University* and Manuel Valdés, Deputy Manager of Infrastructures and Urban Coordination, *City of Barcelona*, will share Barcelona's renewable energy story. With its 100% renewable electricity target, Barcelona has faced unique challenges in implementation. Recently, it has partnered with the City of Freiburg, Germany, to share lessons on achieving this ambitious goal they have both set.

18. **Developing creative energy cooperatives in an uncooperative environment**

Ashoka Finley, Projects Facilitator, *EcoCity Builders*, lives in a state where cooperatives are prohibited and says this is not an insurmountable problem. In this session, Finley will explore how the relationship between utilities and regulatory bodies impacts long-term energy development. He will also outline the importance of raising energy literacy among members of communities seeking roles in energy decision-making, such as through cooperatives.

19. **Getting to a climate change commitment of 80% by 2050: The role of renewable energy**

In this session, Canadian cities will showcase successes in reducing greenhouse gases and consider the potential for renewable energy in reaching 80% reductions by 2050. Brock Carlton, CEO and Devin Causley, Manager, Climate Change Program of the *Federation of Canadian Municipalities*, along with Megan Meaney, Executive Director, of *ICLEI Canada*, will lead a discussion on local energy generation and climate action goals. Case studies on the City of Edmonton, Saanich, and Yellowknife will also be presented.

20. **Power without: Local and regional government strategies for building stakeholder alliances to achieve 100% renewable energy when cities do not control their utilities**

Carsten Rothballer, Coordinator Sustainable Resources, Climate and Resilience, *ICLEI Europe*, has particular expertise in empowering cities that do not have control over their own utilities. In this session, Rothballer will share strategies to build alliances among stakeholders that help local and regional governments influence energy decisions being made by other levels of government. This session is designed for cities at all stages of renewable energy implementation, from zero to 100%.

2:00PM

21. **Power within: Defining the goals, overcoming the barriers, and achieving 100% renewable electricity for cities with utility influence**

Will Dolan, Renewable Energy Manager at the *City of Aspen*, Colorado, works for a city that he describes as having a unique governance model, progressive environmental values, and a considerable budget, and was surprised when residents passionately objected to a local micro-hydro project proposal. That's when the city reached out to Joyce McLaren, Senior Energy Analyst, Strategic Energy Analysis Centre, *NREL*. Working with *NREL*, the city took another look at its process and discovered some key steps they had missed in planning the implementation of their goal. Learn how *NREL* helps US cities define their goals, understand their own definition of "100% renewable energy," and develop a matrix of options the city could consider.

22. **Toward net-zero: BC Hydro's innovative demand-side management strategies**

The Clean Energy Act (2010) requires 66% of incremental energy demand to 2020 to be met through demand-side management (DSM). BC Hydro's Integrated Resource Plan (2013) outlines what BC Hydro can achieve through its DSM programs (Power Smart) and gives direction to investigate innovative DSM strategies that will help transform BC to an energy efficient economy. In this session, Luke Smeaton, Acting Executive Director, *Light House Sustainable Building Centre*, and Katherine King, Policy Specialist, Advanced Demand Side Management Strategies team, *BC Hydro Power Smart*, will lead a discussion about innovative DSM strategies for advancing near net zero energy homes in British Columbia.

23. **Laying the groundwork for district energy**

Ken Church, Team leader, *NRCan/ CanmetENERGY*, points out that most district energy systems built in the last 20 years have been for new construction. In this session, participants will discuss converting existing properties to accept district energy systems: How can the industry convert existing building stock while keeping the cost low?

24. **Urban gymnastics: Circumventing laws and building codes that are not renewable energy friendly**

Krista Milne, Manager of Sustainability, *City of Melbourne*, and Pat Bell, Manager of Planning & Director of Education, *BC Community Energy Association*, live in cities that are 13,000 km apart yet they tell related stories: BC municipalities cannot set energy efficiency requirements above and beyond the building code and Melbourne does not have jurisdiction over the procurement decisions to increase renewable energy. Two cities, two regulatory problems, one session on creative ways to get around regulations that restrict urban energy decision-making.

MAY 14 CONT

3:30PM

COFFEE BREAK

4:00PM

PLENARY SESSION

Trends, innovations, and barriers in electrifying transportation

Focussed on the role of renewable energy in transportation, this panel will explore how cities can tap into new trends:

- Reducing energy demand by designing for more cycling and walking;
- Electrifying entire transportation systems, from single occupancy vehicles to mass transit;
- Using EVs for energy storage;
- Mobilizing EV owners to increase EV uptake; and
- Learning what global policies have actually worked.

The following individuals will be participating in the pane:

- **Moderator:** Zachary Shahan, Director, *Cleantechnica*
- Jonn Axsen, Assistant Professor, *Simon Fraser University*
- Cara Clairman, President and CEO, *Plug 'n Drive*
- Brian Hansen, Head of Department Citywide Strategies, *City of Copenhagen*
- Gil Friend, Chief Sustainability Officer, *City of Palo Alto*
- Eve Hou, Metro Vancouver Air Quality Planner, *Plugin BC*

4:00PM

ONE TO ONE NETWORKING

Location: Renewable Cities Cafe

5:30PM

NETWORKING RECEPTION (ENDS 7:30PM)

Location: Ballroom Foyer

MAY 15

7:30AM

BREAKFAST

9:00AM

PLENARY

Renewable Cities- Call to Action

Leading up to the intent to action workshop sessions, this is a panel of leaders among leaders who will remind participants: Why these dialogues are so important; How far renewable energy has already come; and Where work is still needed.

This panel will inspire participants to dig deep into solving the lingering challenges cities face and finding ways practitioners from cities around the world can move forward with progressive energy strategies.

- **Moderator:** Stefan Schurig, Director, Climate and Energy, *World Future Council*
- José Etcheverry, Professor and Co-Chair, *Sustainable Energy Initiative (SEI), York University*
- Deborah Harford, Executive Director, *Adaptation to Climate Change Team, SFU*
- Sean Kidney, CEO and Co-founder, *Climate Bonds Initiative*
- Ronan Dantec, Councillor, City of Nantes and Spokesperson, *United Cities and Local Governments*
- John Robinson, Associate Provost, Sustainability and Executive Director, *Sustainability Initiative, UBC*

10:00AM

INTENT TO ACTION SESSIONS

25. **Creating 100% RE laws that are difficult to repeal**

In this workshop, Anna Leidreiter, Senior Program Manager, Climate and Energy, *World Future Council (WFC)*. Leidreiter will engage session participants in considering which policy elements should be included in a 100% renewable energy framework and what characteristics would make them difficult to repeal. Participants will learn about WFC's policy handbook and discuss ways to ensure it is a useful tool for local governments to develop robust 100% renewable energy policy frameworks.

26. **Communicating renewable energy: Positioning, persuading, and popularizing**

Communications experts Zachary Shahan, Director, *Cleantechnica* and Cara Pike, Executive Director, *Climate Access*, are teaming up to share their insights on communicating about renewable energy projects. Participants will consider messaging for specific audiences, such as citizens and key stakeholders, and develop top-line messaging for effective communications strategies.

10:00AM

27. Interactive tools to engage the public in community energy planning

In the session, Stephen Sheppard, Professor, *UBC Collaborative for Advanced Landscape Planning*, will present the latest on successful visual tools and participatory processes for mobilizing communities on sustainable energy. Participants will have the chance to test a unique web platform called Community Energy Explorer and will discuss ways visual planning tools could benefit cities in their public engagement processes.

28. Pathways to Paris: Local governments' roles in national plans

Getting ready for COP21 in Paris, Megan Meaney, Executive Director, *ICLEI Canada*, is teaming up with Ronan Dantec, Councillor, *City of Nantes* and Spokesperson, *United Cities and Local Governments*, in this strategy session to review engagement opportunities for cities: How can local government voices be heard at COP21? This is an opportunity for those working at local and subnational government levels to share information and connect ahead of the December meeting in Paris.

29. Leveraging consumer power to finance renewable energy

Sean Magee, Director, Community Renewable Projects, *Bullfrog Power*, will review the business case for renewable energy and reinforce the importance of consumer choice in moving projects forward. Magee will present an innovative funding model that is currently in use across Canada, and participants will consider the transferability of this model to energy markets in different places.

30. Opportunities with green city bonds

Sean Kidney, Founder & CEO, *Climate Bonds Initiative*, and Katie Walsh, Cities Manager, *Carbon Disclosure Project*, are key thinkers on climate risk and how to finance sustainable infrastructure. In this session, Kidney will share his expertise in developing green bonds in diverse markets, including China, the EU, and the US, and Walsh will demonstrate the benefits of disclosing carbon emissions, namely cities can transform the risk of not knowing into the opportunity to take action.

31. Crash course in rate setting: Integrating distributed energy into the grid, not just a technical challenge

Danielle Murray, Manager, Solar Energy Services, *Austin Energy*, is located at the centre of a fossil fuel tradition, and yet Austin has long been in the renewable energy game. Having tested utility-scale wind and solar production, the benefits of on-site residential production are clear: greater efficiency because it cuts out distribution; greater community support because people have a vested interest in their energy production; and greater energy efficiency because residential producers are involved in the production of their own energy. But how does a utility determine the fairest rates for on-site energy producers who not only rely on the grid as a backup, but can potentially sell back electricity to the utility?

10:00AM

32. More than electrons: Designing small hydro projects to benefit First Nations, recreational users, and the local environment

Colleen Giroux-Schmidt, Senior Director, *Innergex*, and Chris Henderson, President, *Lumos Energy & Board Chair Globe Conference and Exposition*, are leading experts in Canadian hydro. In this session, they will present two very different case studies, as well as the wide variety of public responses to these projects. Participants will work through the controversies that arise for large and small hydro projects. Specifically, the group will workshop approaches to resolve ongoing challenges for one of the case studies.

12:30PM

LUNCH

2:00PM

PLENARY SESSION

The Closing Plenary will be the opportunity for all Forum participants to share their perceptions of the most important problems and solutions that have emerged during the Forum and what specifically they will be taking away from the two days of dialogue. Michael Small, Executive Director, Renewable Cities will open this plenary by asking two individuals to share their impressions: Tom Pederson, the Executive Director of the Pacific Institute for Climate Solutions and Margery Moore, Director, Environmental Strategic Alliances of Bloomberg BNA. Then he will open the floor and invite comments from all participants. The Plenary will conclude with a dialogue about next steps after the Forum between Andrea Reimer, Deputy Mayor of Vancouver and David Cadman, recently retired President of ICLEI and now Special Representative for the President of ICLEI. Shauna Sylvester, Director, SFU Centre for Dialogue will then close the Forum.

3:00PM

OPTIONAL: SITE VISITS

Centre for Interactive Research on Sustainability (CIRS) at UBC

Date: Friday, May 15, 3:00-6:00pm

The Centre for Interactive Research on Sustainability was developed in response to the challenge to create a more sustainable built environment. CIRS seeks to be an internationally recognized research institution that accelerates the adoption of sustainable building technologies, and sustainable urban development practices. The building is certified by both LEED and The Living Building Challenge, and has implemented several key sustainable initiatives in construction. These include a living roof and wall; a heat recovery system working with an energy exchange system; as solar panels on the roof; as well as a rainwater harvesting system that works in tandem with a water reclamation system. Professor John Robinson of UBC will be leading the site visit.

More information: cirs.ubc.ca/building

3:00PM

SPEC-MEC Solar Panel Installation

Date: Friday, May 15, 3:00-6:00pm

The SPEC array was the first photovoltaic grid-tied system installed in the city of Vancouver. Since its installation in 2005 hundreds have followed SPEC's lead and installed grid-tie renewable energy systems all over BC. The array is installed on a Mountain Equipment Co-op location and is part of a unique partnership with Bullfrog Power. Sean Magee of Bullfrog Power will be leading the site visit.

More information: www.bullfrogpower.com/14releases/mec.cfm

False Creek District Energy Centre

Date: Friday, May 15, 3:00-6:00pm

The False Creek Energy Centre controls Vancouver's first low-carbon district energy system, and was launched to reduce greenhouse gas emissions by replacing fossil fuels with cleaner energy sources. The Centre uses waste thermal energy from sewage to provide heating and hot water to buildings, and this energy eliminates more than 60% of global warming pollution associated with heating buildings. This Energy Centre provides 70% of local energy supply, and is self-funded, providing a return on investment to city taxpayers, while providing customers with cost-competitive energy. The Energy Centre is the first of its kind in North America, and mimics those in other sustainably focused countries, such as Iceland, Denmark, and Norway.

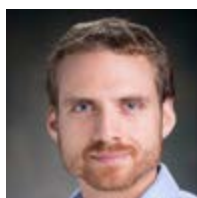
More information: vancouver.ca/home-property-development/false-creek-neighbourhood-energy-utility.aspx

BIOGRAPHIES OF SPEAKERS AND SESSION LEADERS



Svend Andersen, *Project Director, GHG Accounting Services*

An accomplished business executive, auditor, greenhouse gas (GHG) accountant, and sustainability entrepreneur, Svend has a track record going back to the 1980s. Since that time, Svend has actively engaged in a multitude of local community projects, preservation societies, and development aid projects. Svend has also worked in executive positions in Canada, Hong Kong, Germany, and the USA with an international business portfolio. Since 2004, Svend has been working as an auditor and consultant for a broad range of local governments and companies from start-ups to small- and medium-sized enterprises. Cities, local governments, corporations, agencies, and not-for-profit organizations have benefited in their climate change projects and strategies from GHG Accounting Services' environmentally and financially sound and best practice-based approach. Svend is a regular speaker and guest lecturer on the topic of sustainable business practices, carbon financing and municipal and corporate climate change strategies.



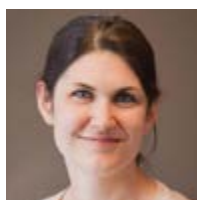
Jonn Axsen, *Assistant Professor, Simon Fraser University*

Dr. Jonn Axsen explores transitions to sustainable energy systems. He draws from disciplines of economics, psychology, sociology and engineering to investigate the nexus of technology, environmental policy, and consumer behaviour. Jonn's study of consumers' social valuation of plug-in electric vehicles has earned him recognition as "Young Researcher of the Year" at the OECD's 2011 International Transportation Forum. His research has been funded by public and private organizations such as the California Air Resources Board, the California Energy Commission, Natural Resources Canada, and BMW. Current projects include: consumer valuation of electric-mobility and green electricity, the social transmission of information and valuation of advanced vehicle technology, individual engagement in pro-environmental lifestyle practices, and regional characterizations of electric-mobility readiness.



Rebecca Baker, *Energy Benchmarking Program Manager, City of Seattle*

Rebecca's work has focused on energy efficiency policy and implementation, green building education, and public engagement. Rebecca's work includes the development of Seattle's Capital Green sustainable master plan and the City of Seattle 2011 Sustainable Building and Sites Policy. Rebecca holds a Master of Urban Planning with certificates in Urban Design and Historic Preservation from the University of Washington. Rebecca staffed both the Seattle Design Commission and Design Review program while with the Seattle Department of Planning and Development. As a public involvement consultant for PRR, Rebecca supported master planning and design processes for numerous capital projects ranging from land use, transportation and new construction.



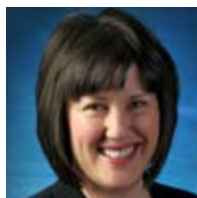
Christie Baumel, *Senior Energy Policy Advisor, City of Seattle*

Christie Baumel is a Senior Energy Policy Advisor for the City of Seattle's Office of Sustainability and Environment where she works on energy- and climate-related policies and projects. She is currently leading Seattle's district energy initiative, a residential energy efficiency program, and she steers implementation of the City's carbon reduction strategy for residential and commercial buildings. Before joining the City of Seattle in 2009, Christie worked on environmental planning and green building incentives as a land use planner in Snohomish County, Washington. She has a Master's degree in Urban Planning from the University of Washington.



Ross Beaty, *Executive Chairman, Alterra Power*

Ross Beaty is a geologist and resource entrepreneur with over 40 years of experience in the international minerals and renewable energy industries. A graduate of the University of BC in geology and law and Imperial College in geology, Mr Beaty is an internationally recognized leader in both non-renewable and renewable resource development. He has founded and divested a number of companies and remains founder and Chairman of Pan American Silver Corp., one of the world's leading silver producers, and founder and Chairman of Alterra Power Corp., a mid-sized renewable energy company with solar, wind, hydro, and geothermal power operations in BC, Ontario, Nevada, and Iceland. Mr. Beaty is also a well-known environmental philanthropist, primarily through The Sitka Foundation. He is a Director of the Nature Trust of BC and patron of the Beaty Biodiversity Center at the University of BC.



Patricia Bell, *Head of Planning & Director of Education, Community Energy Association*

Pat is a community planner, with over twenty years of experience in regional, municipal and environmental planning, with an emphasis on sustainable development. Since joining the Community Energy Association (CEA) in 2008, Pat has prepared and delivered guides, workshops and policy recommendations on energy efficient buildings, finance, and governance of green energy systems, and planning for electric vehicle implementation. She also delivers the annual Climate & Energy Action Awards program. Patricia received a Bachelor of Arts degree in Land Use and Environmental Studies from the University of Saskatchewan and a Master of Science in Sustainability, Planning and Environmental Policy from the University of Wales, Cardiff. She is a Registered Professional Planner (RPP MCIP) and a Certified Sustainability Professional.



Mark Brostrom, *Director, City of Edmonton*

Mark Brostrom received his Bachelor of Science in Mechanical Engineering from the University of Alberta in 1984 and worked in the private sector prior to joining the City of Edmonton in 1990. Since joining the City of Edmonton in 1990 Mark has worked in the area of environmental and energy policy and programs. Mark led the development of Edmonton's Environmental Strategic Plan, The Way We Green which was approved in July 2011 and the Green Building Policy and Plan that was approved in 2012. Mark is currently leading the development of the City's Energy Transition Strategy that will provide a framework for Edmonton to become a low carbon and energy resilient city. In 2010, Mark received the FCM Sustainable Community Award of Excellence and in 2013 received the Queen's Diamond Jubilee Medal for his long-standing commitment to advancing municipal sustainability.



Brock Carlton, *Chief Executive Officer, Federation of Canadian Municipalities*

Since joining the Federation of Canadian Municipalities (FCM) 20 years ago, Mr. Carlton has established himself as a leader on municipal issues, both domestically and internationally. He managed ideas, resources and opportunities to build FCM's global program, which focuses on strengthening municipal government and local governance, and on enhancing policy frameworks toward local sustainability. Mr. Carlton represented Canada on the OECD Urban Municipal Development Secretariat's Sustainable Cities Working Group in the early 1990s. He was a faculty member of the Local Government Leadership Institute at the Banff School of Management and of the Cambridge University Business and Environment Seminar (the latter, delivered for national government leaders in Wales). Mr. Carlton currently sits on the Leadership Council for Carleton University's School of Public Policy and Administration. He is also leading an initiative for sustainable living in Ottawa West, to bring a Bike Share program to his community. Brock has a master's degree in International Affairs from the Norman Patterson School at Carleton University in Ottawa, Ontario.



Devin Causley, *Manager, Federation of Canadian Municipalities*

Devin Causley has worked with the Federation of Canadian Municipalities since 2003 where he is responsible for managing and developing programs on climate change, energy and sustainable community planning, including the Partners for Climate Protection program. Devin holds a Master of Applied Environmental Studies in Local Economic Development and a Bachelor of Environmental Studies in Planning from the University of Waterloo. He is a registered professional planner with the Canadian Institute of Planners (CIP) and trained facilitator. Beyond his work with FCM, he is an active member of several external working groups including the PIEVC committee of Engineers Canada. Drawing upon these experiences, Devin is a member of the Climate Reality Leadership Corps and regularly publishes articles on climate change and sustainable planning. In his time away from work Devin is an avid traveller that includes back country canoe camping and traveling more than 35 countries



Ken Church, *Team Leader, Natural Resources Canada*

Ken has a long history of energy related employment. It ranges from the nuclear submarines through energy utilities to community based energy efficiency at Natural Resources Canada. For Natural Resources Canada, the last 16 years has been spent managing research into tools, guidelines and best practices that relate to the many aspects of energy consumption within the urban environment. Ken actively promotes district energy, community planning and energy mapping and works to raise awareness at the municipal level as regards municipal energy and sustainability. He represents Canada's district energy needs at the International Energy Agency and works closely with associations such as the International District Energy

Association, Federation of Canadian Municipalities, and with private sector utilities and industries. His latest area of work is in spearheading an initiative to bring district energy development in line with community planning practices and the development of Smart Energy communities.



Cara Clairman, *President and CEO, Plug'n Drive*

Plug'n Drive is a non-profit that is accelerating the deployment of EVs to maximize their environmental and economic benefits. In just over three years, Cara has taken Plug'n Drive from an idea to a thriving non-profit, recognized as a leader in the EV space. Cara has more than 20 years of experience working in the environmental and sustainability fields, including 12 years working at Ontario Power Generation, initially as OPG's environmental lawyer and later in the role Vice President of Sustainable Development. As VP of SD, she was responsible for oversight of OPG's environmental performance and the development and implementation of OPG's sustainable development policies and programs. Prior to joining OPG, Cara spent five years practicing environmental law with the Torgys law firm. She holds a Bachelor of Laws from Osgoode Hall and a Masters in Environmental Studies from York University, as well as an Honours Bachelor of Science degree from Queen's University. Cara is currently driving the 100% electric Nissan Leaf as her personal car and the 100% electric Mitsubishi i-Miev for business.



Ben Clark, *Senior Climate Action Analyst, BC Ministry of the Environment*

Ben works on climate action outreach and engagement activities in supporting local government climate action. He is an advisor to the Community Energy and Emissions Inventory and is currently working with international partners on sub-national climate actions in the lead up to the COP21 in Paris in 2015. As the lead on the BC Caucus for Quality Urban Energy Systems of Tomorrow, Ben helps identify barriers to implementation of district energy systems and retrofit programs for existing building stock. He also facilitates the use of energy and emissions forecasting and modelling tools and the open data that is the foundation for them.



Brian Crowe, *Director, City of Vancouver*

Brian is a senior professional engineer with 30 years of experience with the City of Vancouver. As Director responsible for the City's drinking water, sewers & drainage, and district energy systems, he oversees 360 professional, technical, and field staff. Throughout his career with the City he has been responsible for planning, design, construction, and maintenance of numerous components of the City's utility systems. Among his achievements, he led the implementation of the award-winning S.E. False Creek Neighbourhood Energy Utility (NEU). The NEU utilizes sewage heat recovery to produce space heating and domestic hot water, and reduces greenhouse gas emissions by two-thirds compared to traditional systems. He also works extensively in low-carbon district energy planning, resource conservation, green infrastructure, environmental protection, and climate change adaptation.



Ronan Dantec, *Councillor, City of Nantes*

Elected to the French Senate for the Loire-Atlantique region in September 2011, Ronan Dantec is Vice President of the Sustainable Development, Infrastructures, Utilities and Land Planning Commission. Furthermore, Ronan Dantec is the spokesperson for the international organization United Cities and Local Governments (UCLG) in the international negotiations on climate; President of the climate working group of the network of European cities Eurocities; and President of the environmental commission of the French Association of the Council of European Municipalities and Regions (AFCCRE). He was in charge of a parliamentary mission on the role of local and regional authorities in climate negotiations to prepare for the upcoming Paris Climat 2015 Summit, which was presented in September 2013. As Vice President of Nantes Metropole, in charge of the climate plan from 2001 to 2011, he actively supported the dossier "Nantes, 2013 Green Capital of Europe."



Bob Dixon, *Mayor, City of Greensburg*

Bob Dixon has served as the Mayor of Greensburg, KS (pop 1,574) since May 2008. He is a Kansas native and has been a resident of Greensburg since 1985. Mayor Dixon is retired from the U.S. Postal Service after 26 years of service. The mayor has held an influential role in Greensburg's rebuilding efforts, implementing green technology and policy after an EF5 tornado occurred in May 2007. Mayor Dixon strives to make Greensburg the "greenest city in America." This city's rebuilding efforts include utilizing 100 percent wind power and implementing a resolution that all government buildings are built to LEED platinum specifications, including Greensburg's city hall, a school, and a county hospital.



William Dolan, *Renewable Energy Manager, City of Aspen*

As the Renewable Energy Manager for the City of Aspen, Mr. Dolan's primary charge has been to convert the City's municipal electric utility to 100% renewable energy by the end of 2015 (through a combination of renewable resources and collaborative partnerships, Aspen's electric generation portfolio reached 82% renewable in 2014). Will's main focus has been developing new hydroelectric and wind generation resources to supplant legacy coal assets, while preserving reliability and rate stability for the electric utility's customer base. Over the past two years, he has collaborated with staff from the National Renewable Energy Laboratory (NREL) on developing replicable renewable supply and demand reduction solutions for small municipal utilities. Before his work for the City of Aspen, he worked as the Deputy Policy Director for Governor Mark Dayton of Minnesota. Will's academic background is rooted in natural resources management, having completed his graduate studies in Water Science, Policy and Management at the University of Oxford. Will is a member of the Aspen Global Warming Alliance, and works with the City's Canary Initiative on resiliency planning as it pertains to the water and energy sectors. While not working, he can be found on a bike or on skis somewhere in the Elk Mountains.



José Etcheverry, *Professor, York University*

Dr. José Etcheverry joined the Faculty of Environmental Studies at York University in 2007. He is currently an Associate Professor conducting research, graduate training and undergraduate teaching on renewable energy as Co-Chair of the Faculty's Sustainable Energy Initiative. Prior to joining York, Dr. Etcheverry taught environmental policy at Simon Fraser University and the Centre for Environment at the University of Toronto. Dr. Etcheverry's areas of academic interest include climate change mitigation, international and national renewable energy policies, rural electrification, educational and capacity development networks and new media and communications. His current academic research is focused on renewable energy technology transfer, innovative training and knowledge mobilization techniques, climate change mitigation and sustainable energy policies.



Robert Ferry & Elizabeth Monoian, *Co-founders, Land Art Generator Initiative*

Robert Ferry and Elizabeth Monoian are the Founding Directors of the Land Art Generator Initiative (LAGI). LAGI is working to address the issue of public acceptance of localized renewable energy infrastructures by providing models of energy generation architecture that rise to the level of contemporary public art. In so doing, we are demonstrating that sustainable development models that incent distributed electricity generation infrastructures can result in beautiful and engaging urban spaces. Every two years LAGI holds an international design competition, which has thus far been held in Dubai, New York City, and Copenhagen, and is coming to Southern California in 2016. Their publications include *Regenerative Infrastructures*, *The Time is Now: Public Art of the Sustainable City*, *New Energies*, and *A Field Guide to Renewable Energy Generation*.



Ashoka Finley, *Projects Facilitator, Ecocity Builders*

Ashoka is a creative and dynamic project leader with diverse project management experience and media expertise in developing online presence and visibility through social media platforms. He is successful at innovative technological approaches to community driven engagement related to sustainability and implementation at the local level. He is involved with Urban Tilth as a co-project manager and works with schools and community-based organizations to build a more sustainable, healthy and just food system. Ashoka has a degree in Political Economy from the University of California, Berkeley.



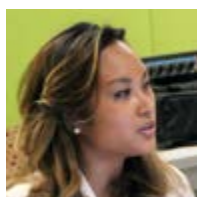
Bertram Fleck, *Former Chief Administrative Officer, German Rhine-Hunsrueck District Authority*

Bertram Fleck was the head of the German Rhine-Hunsrueck District Authority ("Landrat"/Chief Administrative Officer) for 26 years until April 2015. In this role he managed 400 staff and served a population of over 100,000 in 137 communities. Thanks to energy efficiency measures and district energy, biomass, solar, and wind energy systems, the district has been a net electricity exporter since mid-2012. Currently it produces approx. 220 % of its electricity demand from renewables (mainly wind power). The dynamic development of the Rhine-Hunsrueck district into a flagship region for energy has been recognised through numerous national and international awards, including the European Solar Prize 2011 and second place in the European Champions League for Renewables 2014. Bertram Fleck's expertise as a "local energy transition practitioner" has been sought after for years. He regularly gives presentations and panel sessions for municipalities and at conferences domestic and abroad. He now is a senior adviser of the Ministry of Energy of Rhineland-Palatinate.



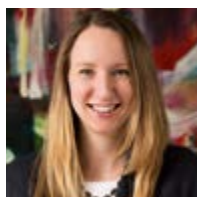
Gil Friend, *Chief Sustainability Officer, City of Palo Alto*

For 40 years, Gil has helped companies and communities design, implement and measure profitable sustainability strategies. Founder and Chairman of Natural Logic Inc., and author of *The Truth About Green Business* and hundreds of articles on sustainability strategy, Gil is widely considered one of the founders of the sustainable business movement. He was named an inaugural member of the Sustainability Hall of Fame (with Ray Anderson, Amory Lovins, Karl-Henrik Robert and Bob Willard), and “one of the 10 most influential sustainability voices in America” by *The Guardian*. He’s now leading Palo Alto’s “climate moonshot.”



Esperanza Garcia, *Founder and CEO, Clean Tech Impact*

Esperanza Garcia was born and raised in Cebu, Philippines and has been active as a global youth leader, speaker, renewable energy campaigner, climate change policy negotiator, and educator. Esperanza has received awards for youth leadership and has been invited to keynote speak at international conferences, including the UN and TEDx, to educate stakeholders in understanding the international process of climate change and sustainable development. She worked as a Climate Change Consultant for the Philippine Senate Oversight Climate Change Committee where she endorsed & lobbied for the implementation of Renewable Energy Act, Republic Act No. 9513 and campaigned for the enactment of climate change laws and environmental governance. The Philippines have some of the most aggressive renewable energy policies in the world. Esperanza is an active blogger and her work has been published in several books and magazines including Unipro’s “30 Top Filipinos Under 30,” Swedish magazine, “Heroes of Today,” and Humaneity’s publication, “Mobilizing Young People to Save the Planet.”



Colleen Giroux-Schmidt, *Senior Director, Innergex Renewable Energy Inc.*

Colleen brings 18+ years of experience in BC resource development, especially in the renewable energy sector. Her skills in government relations, relationship building, regulatory and policy development, and project management have her involved in the development, environmental assessment and permitting, construction, and operations phases clean energy projects, including over 40 run-of-river hydro projects and BC’s largest wind farm. In addition to being the Chair of the Board of Directors at Clean Energy BC (CEBC), she is active on several of the associations committees, including chairing the Annual Generate Conference. She also sits on several committees with the Business Council of British Columbia and is on the BC Caucus for the Canadian Wind Energy Association. Colleen also routinely participates in working groups and task forces with the Provincial government, has participated in the US State Department’s International Visitor Leadership Program for renewable energy policy, nominated for her contributions to BC’s resource development industries have for the Minerva Foundation’s 2014 Women in Energy awards and AME BC’s Honourable Service Roll.



Brian Hansen, *Head of Citywide Strategies, City of Copenhagen*

Brian Hansen is heading the department responsible for urban development and citywide strategies in the Technical and Environmental Administration of the City of Copenhagen. The department works with the development and implementation of policies, strategies and development projects through the whole area of administrations responsibilities. This includes climate mitigation and adaptation, green mobility, waste and resource efficiency, urban nature and a greener Copenhagen, sustainability, worlds best city for cyclists, public involvement, public private partnerships and innovation, smart city, data and GIS. An M.Sc. in Urban Planning, Brian Hansen has been working with planning and development projects for more than 15 years, first in the private consultancy sector but for more than 10 years within the City of Copenhagen. Copenhagen – the 2014 European Green Capital – has is an ambitious city in the field of carbon neutrality, green growth and sustainable solutions, and is active within many different international networks including C40, Eurocities and ICLEI.



Deborah Harford, *Executive Director, SFU’s Adaptation to Climate Change Team (ACT)*

Deborah is the Executive Director of SFU’s Adaptation to Climate Change Team (ACT), which develops adaptation strategies for all levels of government, communities and industry sectors. Through this work, she has gained national recognition as a resource for those seeking information on climate change adaptation and practical coping strategies. Deborah is responsible for development of the initiative’s vision and its partnerships with the public and private sectors, as well as overall coordination and management of the program.



Chris Henderson, *President / Board Chair, Lumos Energy / Globe Conference and Exposition*

Chris Henderson is the Author of *Aboriginal Power* and for the past 2 1/2 decades has focused on the intersection of clean energy, sustainable development, environmental action, economic development, and Aboriginal communities. As Canada's most respected commentator on Aboriginal clean energy opportunities, he acts as Clean Energy Advisor indigenous communities throughout Canada. A mentor to Aboriginal clean energy leaders country-wide, Chris is sought by Aboriginal communities, governments, utilities, private corporations, independent power development companies, and financing firms for his strategic advice. Chris co-founded The Delphi Group, a national environmental consulting firm at the forefront of combating climate change through cutting-edge innovations in business, technologies, and economics. Now President of Lumos Energy, Chris works through his long-standing relationships with First Nations, Métis, and Inuit communities, to realise hydro, wind, and biomass power as sustainable prosperity for Canada's First Peoples. Chris draws his life-force from a deep love for his partner Andrea, and their sons, Isaac and Noah, and a spiritual belief in Nature and the Creator.



Eve Hou, *Metro Vancouver Air Quality Planner, Plug in BC*

Eve Hou has been an air quality and climate change planner for over a decade in Canada and the United States. She currently works for Metro Vancouver on a broad range of issues ranging from electric vehicles to home energy labelling. She holds a Master's degree in planning and an undergraduate degree in economics, both from the University of British Columbia. She currently serves on the Board of Directors for the local chapter of the Air & Waste Management Association. Eve is a registered professional planner.



Mark Z. Jacobson, *Director / Professor, Stanford University*

Mark Z. Jacobson is Director of the Atmosphere/Energy Program and Professor of Civil and Environmental Engineering at Stanford University. He is also a Senior Fellow of the Woods Institute for the Environment and of the Precourt Institute for Energy. He received a B.S. in Civil Engineering, an A.B. in Economics, and an M.S. in Environmental Engineering from Stanford in 1988. He received an M.S. and PhD in Atmospheric Sciences in 1991 and 1994, respectively, from UCLA and started on the faculty at Stanford in 1994. He develops and applies computer models to understand air pollution, global warming, and renewable energy resources. He received the 2013 Global Green Policy Design Award for developing state and country energy plans. He is on the Board of The Solutions Project, served on an advisory committee to the U.S. Secretary of Energy, and appeared on the David Letterman Show in 2013 to discuss converting the world and US to 100% clean energy.



Sadhu Johnston, *Deputy City Manager, City of Vancouver*

Deputy City Manager Sadhu Johnston has extensive experience as a city administrator and leader and contributes to the overall management of the City of Vancouver. Sadhu helps to oversee the development and implementation of Vancouver's Greenest City Action Plan, which builds off of Vancouver's successes in building a green city. Vancouver's greenhouse gas emissions are currently below 1990 levels despite a growth in population of 27% and an increase in jobs of 18%. Sadhu is a co-author of *The Guide to Greening Cities* and is a founder and co-chair of the Urban Sustainability Directors Network, a network of over 120 municipal staff focused on greening their cities. He also serves on the board of the STAR Community Rating System, which helps cities and counties achieve meaningful sustainability through the first national framework for local community efforts and tools that measure progress. For six years he was the deputy chief of staff to Chicago Mayor Richard Daley and served as the chief environmental officer for the mayor's office, the first position of its kind in United States' city government, where he pioneered environmental programs, strategies and regulations for the City of Chicago.



Sean Kidney, *Founder and CEO, Climate Bonds Initiative*

Sean Kidney is the CEO of the Climate Bonds Initiative, an international NGO working to mobilize debt capital markets for climate solutions. Projects include a green bond definitions and certification scheme with \$34 trillion of assets represented on its Board and some 50 organizations involved in its development and governance; advising the EU; and working with the Chinese Government's Development Research Centre on how to grow green bonds in China. Sean is also a director of the Network for Sustainable Financial Markets, an international group of finance sector professionals, academics and others who see the need for fundamental changes to improve financial market integrity, stability and efficiency. Sean was previously marketing advisor to a number of the largest Australian pension funds.



Shannon Lawrence, *Head of the Energy Initiative, C40*

Shannon Lawrence serves as the Head of the Energy Initiative at C40. In this position she is responsible for leading C40's energy strategy and supporting city efforts in areas such as energy efficiency and district energy. Before joining C40, Shannon was the Vibrant Cities Project Director for the Sustainable Urban Forests Coalition. She also worked as an independent sustainability and energy consultant for clients such as the USGBC, Virginia Tech's Metropolitan Institute, Enterprise Community Partners and the World Resources Institute. Before she took up consulting, Shannon spent ten years working for International Rivers and the Environmental Defense Fund promoting environmentally responsible and transparent energy and water planning in Africa and Asia. Shannon holds a Master of Arts in Law and Diplomacy from the Fletcher School of Law and Diplomacy at Tufts University, with concentrations in international environmental and resource policy and development economics. She has a BA in Economics and English from Georgetown University.



Harry Lehmann, *Head of Division, German Federal Environment Agency (UBA)*

A physicist, Dr. Harry Lehmann has been Head of Division I, Environmental Planning and Sustainability Strategies, of the German Federal Environment Agency since 2004. He was an early member, and is now the President, of the Factor 10 Club for resource productivity and sustainable use of natural resources. He is one of the founders of Eurosolar. In 2011, he became Executive Chairman of the World Renewable Energy Council. He has published several books. Since 1985, Harry Lehmann has lectured at various universities, most recently at the University of Luneburg.



Anna Leidreiter, *Senior Programme Manager, World Future Council*

Anna Leidreiter joined the World Future Council in October 2010. As policy officer she coordinates policy research and advocacy campaigns in the climate energy team. In her main capacity Anna works on enabling policy frameworks for a global energy transition towards 100% renewable energies as well as a transformation of urban areas towards regenerative systems. Besides that, Anna is member of the supervisory board of an energy cooperative in the North of Germany. Before joining the WFC Anna gained practical experiences in the renewable energy industry. Working for a photovoltaic company she implemented a community owned solar system in the North of Germany.



Patricia Lightburn, *Senior Policy Analyst, Province of BC*

Patricia Lightburn has in-depth experience in renewable energy policy, having been part of the team that designed and implemented the Ontario Feed-in Tariff Program. She was also a lead author of the inaugural Energy Efficiency Market Report at the International Energy Agency, which launched the 'first fuel' concept for energy efficiency. Patricia has contributed to several other publications including at the Pembina Institute and the United Nations Environment Program.



Sean Magee, *Director, Bullfrog Power*

Sean is responsible for supporting community-based renewable energy projects on behalf of Bullfrog Power customers, in order to accelerate the growth of renewable energy development across Canada. In 2013, Sean was trained by former Vice President Al Gore, and became a Climate Reality Leader. He received the David Suzuki Fellowship and Don Galbraith Award for excellence and innovation in science and environmental education while studying at the Ontario Institute for Studies in Education. He has over ten years of experience as an environmental educator and communicator. He helped launch the Orange Drop and RecycleYourElectronics.ca recycling programs across Ontario, which won the Communitas Award, honouring excellence in community service and social responsibility.



Joyce McLaren, *Senior Energy Analyst, National Renewable Energy Laboratory*

Joyce McLaren is a member of the Market and Policy Impact Analysis Group in the Strategic Energy Analysis Center. Her primary areas of expertise include: renewable energy policy and program design, innovative business models for expanded distributed generation, utility planning and programs for renewable energy, and state and local technical assistance for renewable energy and efficiency.



Jane McRae, *Executive Director, Sustainable Cities International*

Jane McRae is an urban sustainability professional with more than 20 years of Canadian and international experience as a strategist and educator in the field of sustainable development. Jane joined Sustainable Cities International in 2003 as the Program Director to help launch the SCI Network, a collection of cities dedicated to developing and sharing expertise in innovative approaches to managing urban growth challenges. In charge of overall operations and management, Jane worked closely with city stakeholder teams to identify strategic planning gaps and facilitate learning exchanges between cities to help fill the gaps and advance their respective and collective sustainability planning and implementation processes. In the role of SCI's Chief Executive Officer, Jane utilized her wide network of contacts in cities and knowledge of best practices to advance the organizations role as a leading change agent for urban sustainability efforts worldwide. Jane holds a Bachelor of Science in Biology, from Dalhousie University, and a Masters of Environmental Education from Simon Fraser University in British Columbia.



Megan Meaney, *Canadian Director, ICLEI – Local Governments for Sustainability*

Megan is recognized by cities across Canada as an authority on municipal sustainability. She has been with ICLEI since 1999, over which time she has held many roles in strategic energy planning, climate mitigation and adaptation, biodiversity, as well as sustainability management. She has worked with municipal practitioners from coast to coast, helping to build capacity to address global sustainability issues at the local level. As Director of ICLEI Canada, Megan oversees the governance of the non-profit organization. She is responsible for strategic planning, program management and partnership development. She has a Master's Degree in Environment and Management as well as degrees in Environmental Science and Environmental Engineering.



Krista Milne, *Manager of Sustainability, City of Melbourne*

Cities are where it is happening when it comes to sustainability. They account for 70% of the world's carbon dioxide emissions and many of the solutions are also developed in cities. Krista leads a team of environmental professionals at the City of Melbourne delivering practical and sustainable outcomes for the city. Some of the world leading programs delivered by the team include developing a new bulk procurement model for renewable energy in partnership with major institutions and businesses, the 1200 Buildings and the associated Environmental Upgrade Agreements, and Smart Blocks, a new national energy efficiency program targeting strata buildings. Krista has a background in Environmental Science and has worked at all levels of government in Australia.



Toshinori Mishima, *Assistant Manager, City of Yokohama*

Mr. Mishima is in charge of marketing of climate change for household sectors in the City of Yokohama. He analyzes civic awareness on climate change and contributes to household CO2 reduction strategies. Mr. Mishima holds an MBA from Bond University in Australia.



Leshan Moodliar, *Chief Electrical Engineer, eThekweni Municipality, City of Durban*

A passionate and energetic engineer, 8 years after graduating, Leshan has specialised in the field of Electricity Pricing and Renewable Strategies. While South Africa recovers from an energy constraint, Leshan promotes cost-effective renewable energy whilst balancing the social need for providing basic services to citizens. He has represented the City of Durban on numerous international platforms and continues to promote renewable energy sector within South Africa. Leshan is a key representative on national forums and provides strategic direction for local municipalities in dealing with electricity supply issues. Other than keeping the lights on within the city, Leshan makes his appearance on national TV and radio to share information / debate various issues dealing with electricity. He regards his ambition for the city to promote renewable energy and to integrate higher levels of quality green power to the grid as a challenge rather than a barrier.



Danielle Murray, *Manager, Austin Energy*

Danielle Murray has spent the past decade supporting local climate policy and renewable energy deployment, including working for three of North America's "greenest" cities: Toronto, San Francisco, and Austin, Texas. Danielle recently joined Austin Energy, Austin's municipally-owned electric utility, as the manager of Solar Energy Services, where she develops policies and programs to meet Austin's ever-increasing solar and renewable energy goals, including 950 MW of solar by 2020, and 55% renewable electricity by 2025. Previously, Danielle was the Renewable Energy Program Manager for the City and County of San Francisco, where she led efforts to drive local solar market development, pilot emerging technologies such as urban wind and wave power, and expand district energy systems. She also served as chair of the Mayor's Renewable Energy Task Force, looking at ways to meet the city's 100% renewable goal. Prior to that, she worked for the City of Toronto's Energy Office, where she designed and implemented the Toronto Solar Neighborhoods Initiative which provided grants and low-interest loans to homeowners to install solar water heating systems and other energy efficiency improvements.



Ken Nolan, *Manager of Power Resources, Burlington*

Kenneth A. Nolan is responsible for long range planning, power procurement, load forecasting, rate design, and energy efficiency verification and reporting. He has been with the Department since 1998. Prior to joining the Department, Mr. Nolan spent 11 years at the Vermont Public Power Supply Authority, a joint action agency serving Vermont's 14 smallest municipal utilities. Mr. Nolan received a Bachelor of Science degree in Electrical Engineering from the University of Vermont in 1988, and a Certificate in Public Utility Management from the Northeast Public Power Association in 1995. Presently he is a member of the Board of Directors of Renewable Energy Vermont and VEPP Inc.



Cara Pike, *Executive Director, Climate Access*

Cara Pike is the founder and executive director of the nonprofit Climate Access, a network for leaders engaging the public in the transformation to low-carbon resilient communities; and Social Capital Strategies, an environmental communication-consulting firm. Her work includes creation of the Ecological Roadmap, a values-based approach to building support for environmental protection; Climate Communications Behavior Change – A Guide for Practitioners, and other widely used publications and toolkits. Cara regularly advises government agencies and nonprofit organizations including the Obama Administration, the state of Oregon, British Columbia's Ministry of the Environment, the city of Seattle, World Wildlife Fund, Union of Concerned Scientists, Tides Canada and others. She is currently serving on the engagement and communication working group of the federal National Climate Assessment Development Advisory Committee; and is on the boards of Resource Media and the Hollyhock Educational Foundation.



Dave Renné, *President, International Solar Energy Society*

President of the International Solar Energy Society since 2010 and Associate Editor of the Solar Energy Journal in the field of solar resource assessment, Dr. Renné is also the Operating Agent of International Energy Agency Solar Heating and Cooling Programme Task 46 titled, "Solar Resource Assessment and Forecasting." From 1991-2012, Dr. Renné developed and managed programs on renewable energy resource assessment and analysis, and the integration of resource data into GIS at the National Renewable Energy Laboratory (NREL). In his retirement, he holds an Emeritus position at NREL and Dave Renné Renewables provides support to both the public and private sector in planning and developing domestic and international renewable energy programs. Dr. Renné's other professional activities include: Sr Consultant to Clean Power Research, a small US Company that develops resource assessment and analytical software tools to support large-scale grid connected solar energy systems; and Consultant to the World Bank's Energy Sector Management Assistance Program's (ESMAP's) Resource Mapping Project.



Gregor Robertson, *Mayor, City of Vancouver*

Gregor Robertson was first elected Mayor of Vancouver in November 2008 and was re-elected November 2014. Mayor Robertson is a national advocate for urban issues as Chair of the Federation of Canadian Municipalities' Big City Mayors' Caucus, focusing on public infrastructure, housing and transit and is committed to growing a sustainable and thriving economy in Vancouver focused on high-growth sectors like digital media, clean technology, and renewable energy. Building on the successful legacy of the 2010 Winter Olympics, Mayor Robertson has established Vancouver internationally as the Green Capital—a city where going green is good for business. He has also overseen the creation and implementation of the award-winning Greenest City 2020 Action Plan that aims to make Vancouver an environmental leader in everything from energy efficiency and waste reduction to clean air and local food.



John Robinson, *Associate Provost / Executive Director, University of British Columbia*

Dr. Robinson researches the intersection of climate change mitigation, adaptation, and sustainability; the use of visualization, modeling, and citizen engagement to explore sustainable futures; sustainable buildings and urban design; creating partnerships for sustainability with non-academic partners; and, generally, the intersection of sustainability, social and technological change, behaviour change, and community engagement processes. UBC's Centre for Interactive Research on Sustainability (CIRS) is a major focus of his work, along with infusing sustainability throughout UBC's operations and academic activities and partnering with private, public, and NGO sectors in treating the university campus as a living laboratory of sustainable practice, research, and teaching. His most recent awards include: the Metro Vancouver Architecture Canada Architecture Advocacy Award; Environmental Scientist of the Year by Canadian Geographic magazine; Canada Green Building Council Education Leadership Award; and BC Hydro's Larry Bell Award. Other affiliations have included: Fellow of the Pierre Elliot Trudeau Foundation and Lead Author on the Intergovernmental Panel on Climate Change reports (1995, 2001, and 2007).



Mark Roseland, *Professor, Simon Fraser University*

Dr. Mark Roseland has been cited by the *Vancouver Sun* as one of British Columbia's "top 50 living public intellectuals." He has published widely, and his the fourth edition of his best-selling book *Toward Sustainable Communities: Solutions for Citizens and Their Governments* was released by New Society Publishers in June 2012. Under his leadership, the Centre for Sustainable Community Development at SFU provides research, training and advisory services to the sustainable community development sector in BC, Canada and internationally through a team of associates drawn from academia and professional practice. As a founding member of the SFU Community Trust's Board of Directors, Dr. Roseland also helped create the award-winning UniverCity sustainable community development project at Simon Fraser University. Dr. Roseland is currently leading development of Pando Sustainable Communities, a multilingual online network designed to promote knowledge-sharing and collaboration among sustainable communities researchers and practitioners around the world.



Carsten Rothballe, *Officer, ICLEI - Local Governments for Sustainability European Secretariat*

Expert at ICLEI Europe since 2009 addressing climate policy issues, with project experience in training, energy planning, integrated management and infrastructure, resilience, risk assessment, and international networking on climate and energy issues. He supports local governments in Germany, as well as throughout Europe, in the development, improvement, and financing of Sustainable Energy Action Plans (SEAPs) and Smart City solutions. Specific project work and coordination of the consortium includes Covenant capaCITY—capacity building of local governments to advance Local Climate and Energy Action—from planning to action to monitoring. His activities generally include: monitoring current developments in international and European energy and climate policy; advocating on behalf of local governments at the Conference of the Parties (COP); facilitating local-national dialogues; and transferring energy expertise to political leaders and technical staff. Carsten holds an M.A. in International Development from the University of Vienna, Austria, and also studied at the University of Pavia, Italy and Federal University of Salvador Bahia, Brazil. He speaks German, English, and Portuguese.



Bárbara Rubim, *Climate and Energy Campaigner, Greenpeace Brazil*

Bárbara Rubim is a Climate and Energy Campaigner at Greenpeace in São Paulo, Brazil where she focuses mainly on solar energy. In her work, she advocates, lobbies, works closely with partners, and even climbs onto rooftops to install solar panels. Previously, Bárbara worked as a parliamentary legal advisor and as a researcher for the Cities Ministry. She holds a degree in law from the Pontifical Catholic University of Minas Gerais.



Marietta Sander, *Executive Director, International Geothermal Association (IGA)*

At the IGA she is responsible for sector-specific advisory on geothermal energy, the promotion of geothermal energy, the management of the IGA Secretariat in Bochum, Germany, as well as publications. Prior to her work for the IGA, Marietta managed an international technical assistance project with a focus on promoting the use of geothermal energy in countries along the East African rift system. She is a certified Project Manager of Renewable Energies and has extensive work experience in Eastern and Southern Africa, Latin America, and Southeast Asia. Through her previous work in international development cooperation, she has extensive experience in advising decision-makers, government representatives, practitioners, scientists, industry representatives, as well as civil society. The IGA is a partner organization of the REN Alliance, which advises international decision-makers and incorporates relevant topics into UN and climate change (COP) dialogues.



Stefan Schurig, *Director, World Future Council*

An architect by training, Stefan devoted most of his career to energy and climate change issues. Prior to joining the World Future Council, he was the spokesperson for Greenpeace in Germany; headed up the Greenpeace Climate and Energy for nine years; co-founded Germany's second largest green electricity supplier; and in 2004 became a member of the REALISE Forum, an international platform on renewable energy policies led by the European Commission. As Director Climate Energy at the WFC Schurig initiated the international policy campaign on renewable energy and the worldwide promotion of 'Feed-In tariffs' as one of the best policies for a massive uptake of renewable energy. In 2008, Schurig became a member of the energy advisory board of the International Building Exhibition (IBA) and was appointed by UN Habitat as an advisor of the World Urban Campaign. Schurig also founded and coordinates the WFC international expert commission on Cities and Climate Change. He advises governments and parliamentarians around the globe and has authored various publications on climate change.



Zachary Shahan, *Director, Cleantechnica*

Zach is the director and editor of CleanTechnica.com, the #1 most-visited cleantech-focused site on the internet, and the founder of Solar Love, EV Obsession, and Bikeocity. He is one of the world's leading communicators on solar energy, electric vehicles, wind energy, energy efficiency, and bicycle transportation issues and his work can be found all over the internet, including on Scientific American, Reuters, TreeHugger, and most Important Media sites. Zach is a regularly invited to moderate panels at cleantech conferences and international energy forums. Zach currently lives in Wroclaw, Poland, but is originally from Sarasota, Florida.



Stephen Sheppard, *Director, Collaborative for Advanced Landscape Planning*

Stephen directs an applied research group which develops and tests powerful visualisation tools and engagement processes, to help communities move towards low carbon, resilient and attractive futures. He also teaches in sustainable landscape planning, aesthetics, and visualization in the Faculty of Forestry and Landscape Architecture program at the University of British Columbia (UBC). He received a BA/MA in Agricultural and Forest Sciences at Oxford, a MSc in Forestry at UBC, and a PhD in Environmental Planning at UC Berkeley. He has over 30 years' experience in environmental assessment and public participation internationally. He has written or co-written two books on visual simulation, and recently published "Visualizing Climate Change: A Guide to Visual Communication of Climate Change and Developing Local Solutions" (Order at: <http://visualizingclimatechange.ca>). This book is the first to provide a comprehensive guide to visual communication of climate change. Current research interests lie in perceptions of climate change and renewable energy, planning for low-carbon resilient communities and video games as a community engagement tool on climate change.



Merran Smith, *Executive Director, Clean Energy Canada*

Merran Smith leads a team that is working to transform Canada's energy systems to reduce fossil fuel dependence and the risks of climate disruption. Merran's team conducts original research and modeling to understand the opportunities for Canada in the global low-carbon economy, and shares those findings with policy makers and the public via high-impact communications products. During her career, Smith has brought together business, government, and civil society organizations to create innovative solutions to some of the most challenging issues of our age. She received the Clean16 award for sustainability and clean capitalism, the Wilburforce Foundation Award for Outstanding Conservation Leadership, and a transformative leadership award for the Seasons Fund. She was recently named a fellow of Simon Fraser University's Centre for Dialogue.



Bertine Stelzer, *Director, Sustainable Cities International Energy Lab*

Bertine is a sustainability management professional with international work experience in the non-profit and corporate sector. Over the past 6 years, she has managed and facilitated international research and peer exchange projects on renewable energy implementation, involving regional and local governments in Europe, South Africa, and North America. Bertine joined Sustainable Cities International (SCI) in January 2013 and acted as the program manager for the SCI Energy Lab until May 2014. In this role she facilitated the in-person and online peer-exchange between participating cities and served as the key account manager for the program. In July 2014 Bertine became a Founding Director of the Sustainable Cities International Society and serves the SCI board as a volunteer. Bertine holds a Master's degree in Sustainability, Economics and Management from the University of Oldenburg, a Bachelor's degree in European Studies with focus on Economics from Chemnitz University of Technology, and completed a certificate in Design Thinking from Stanford University.



Rob Thornton, *President & CEO, International District Energy Association (IDEA)*

The International District Energy Association (IDEA) is an industry association committed to advancing highly efficient district energy since its founding in 1909. He represents the interests of 2000 IDEA members in 26 countries, publishes District Energy magazine and oversees 3-5 global conferences annually. Over 28 years in district energy, Mr. Thornton has launched three new downtown systems in three different cities. As principal industry advocate, he has briefed the President of the United States and members of Cabinet, members of Congress, leadership at DOE, EPA, Commerce and the Ministries of Energy & Environment in Korea, United Arab Emirates, Qatar, Saudi Arabia, and countless state and local agencies. He serves on the executive committee of IEA DHC Implementing Agreement, IEA CHP Collaborative and is a founding member of Microgrid Resources Coalition. Mr. Thornton is a frequent speaker and author of numerous industry white papers and holds a degree from Tufts University.



Manuel Valdés, *Deputy Manager, City of Barcelona*

Manuel Valdés López, 1966. Deputy Manager of Infrastructures and Urban Coordination at Barcelona City Council since 2012, he is responsible for the areas of: Energy Self-sufficiency, Services supply coordination, Transportation networks, Coordination of public works in the public space, Urban resilience and Innovation. Formerly Executive Director of Infrastructures and Public Space. His work for the Municipality of Barcelona includes being Secretary for both the Public Works and Mobility Committee (COM) and the Resilience Technical Bureau on Infrastructures and Services Supply (TISU). He is Senior Adviser at Barcelona Sagrera High Speed Trains (BSAV), Waste Treatment and Selection, SA (TERSA), Barcelona Water Cycle, SA (BCASA), and the Barcelona Local Energy Agency. Manuel is also President of the Integrated Management of Public Works on Infrastructures and Services Supply (ACEFAT). He has been a professor in the Construction Engineering Department at Barcelona's Civil Engineering School (ETSECCPB) since 1997.



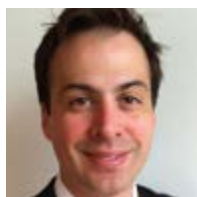
Katie Walsh, *Manager, CDP Cities*

Katie Walsh oversees CDP's cities work in North America. CDP holds the largest collection of self-reported climate change, water and forests data from companies and cities. Through the CDP platform, companies, investors and cities are better able to mitigate risk, capitalize on opportunities and make investment decisions that drive action towards a more sustainable world. Katie holds an MA from Tufts University's Urban and Environmental Planning School and an MA from The Fletcher School of Law and Diplomacy in International Energy Policy and International Business Relations. She has served in various roles including with the City of Philadelphia Mayor's Office of Sustainability, the Energy Foundation in Beijing, the U.S. Department of Energy and the Chinese Flagship National Security Program at San Francisco State University.



Simon Wyke, *Principal Policy and Programme Officer, Greater London Authority*

Simon has been working in the environmental field since 1997 and has considerable experience of working across a range of environmental issues and sectors. He started out with the Environment Agency working on aquatic systems, and in 2003, moved to Government Office for London to lead on the integration of sustainable development into economic development programmes in support of London's transition to a low-carbon economy. In 2007, he joined the London Development Agency working on environmental programmes, including establishing the London Green Fund. Simon moved to the Greater London Authority in 2010 where he now works on Energy and Climate Change Mitigation from both a policy and programme development perspective. His main areas of work are currently in decentralised energy and district heating but also include energy efficiency, spatial planning, and the low-carbon, resource-efficient economy.



Matt Zipchen, *General Manager, TREC Renewable Energy Co-operative*

Matt works to develop TREC's generation activities and currently works on the LakeWind and SolarShare projects. Before joining TREC in early 2010, Matt was working in Vancouver as a sustainable strategy and green building business consultant while also completing his Master of Public Policy at Simon Fraser University. Matt also holds a Bachelor of Commerce in Entrepreneurship and has been involved in a few start-up ventures, including: SolarShare, LightHouse Sustainable Building Centre, and the Beaumont Studios. Committed to making positive change in his personal and professional life, Matt discovered his love for project management while managing his mother's political campaign in the 2008 federal election.

STAFF BIOGRAPHIES

Shauna Sylvester, Director, SFU Centre for Dialogue



is a Professor of Professional Practice at Simon Fraser University, the Director of the SFU Centre for Dialogue and the Executive Director of SFU Public Square. Shauna is a skilled facilitator, a social entrepreneur and a commentator on urban and international issues. She is the founding Executive Director of a number of organizations including Renewable Cities, Carbon Talks, Canada's World and IMPACS – the Institute for Media, Policy and Civil Society. Shauna is a former board member of the Downtown Business Improvement Association, Mountain Equipment Cooperative, Vancity Credit Union, Vancity Capital, the Voluntary Sector Initiative, the BC Assessment Authority, the Vancouver

Folk Festival and numerous other non-profit organizations.

[@ShaunaSylvester](#)

Michael Small, *Executive Director*



Michael joined Renewable Cities on January 1, 2015 after a thirty-three year career as a diplomat and senior executive in the Canadian foreign service.

Immediately prior to coming to Vancouver, Michael was Canada's High Commissioner to Australia. Before that, he served as Assistant Deputy Minister in the Department of Foreign Affairs and International Trade. From 2000-2003 he was Canada's Ambassador to Cuba. Michael has had a life-long interest in the international policy issues around sustainable development. He served for two years as the Co-ordinator for the Canadian delegation to the Earth Summit in Rio de Janeiro in 1992. More recently, he has worked on climate change issues as Canada's communiqué negotiator for the 2007 and 2008 G8 Summits. He also has extensive experience in designing dialogues that bridge different communities of expertise. Michael Small earned an A.B. in Politics from Princeton University in 1978; a M.A. in Political Science from the University of Toronto in 1980; and a M.Phil in Social Anthropology from Cambridge University in 1981. From 2003-2004 he was a Fellow at the Weatherhead Center for International Affairs at Harvard University.

Claire Havens, *Program Manager*



Claire Havens has a passion for knowledge sharing, civic engagement, and facilitating dialogue within the research, government, non-profit, and business communities on environmental issues. Working at Carbon Talks, Claire has helped convene dozens of roundtable dialogues, workshops and public events, and regularly facilitates or participates on panel discussions. She has worked in government and the non-profit sector undertaking policy analysis on a variety of topics including climate change mitigation and adaptation, natural resource and marine planning, and environmental economics. This included carrying out a benefits valuation for the Scott Islands National Wildlife Area for Environment Canada, and working with the Adaptation to Climate Change Team at Simon Fraser University (SFU).

Claire has a masters from the SFU School of Public Policy as well as a certificate in Dialogue and Civic Engagement.

[@ClaireHavens](#)

Keane Gruending, *Communications and Program Manager*



Keane manages external communications, conducts research and program development, and undertakes stakeholder and government relations at Renewable Cities and Carbon Talks.

Carbon pricing, energy efficiency, cycling/transit infrastructure, compact communities, technology, and sharing systems are among his favourite tools for the low-carbon economy and to promote sustainable urban development. Previous stops for Keane include the United Nations Environment Programme, Victoria Car Share, and University of Saskatchewan's Office of Sustainability. He has also worked several community development projects and a NetZero housing demonstration project.

Keane holds a M.Sc. in Environment and International Development from the University of East Anglia in the United Kingdom and has a further background in business and marketing.

[@KeaGru](#)



Betsy Agar, *Editor/Researcher*

Betsy Agar is an engineer licensed in Ontario who found her passion in words rather than formulas. Bringing her built environment expertise together with her love of old cities, Betsy views rehabilitation as an opportunity to make our urban 'ecosystem' sustainable and anchor the community's sense of place. She holds a bachelor and a masters degrees in environmental engineering from McMaster University, Hamilton, Ontario, and an associate of arts degree from Capilano University, North

Vancouver, BC. Betsy has been with Carbon Talks at the SFU Centre for Dialogue since 2013, working on projects such as: A natural gas research agenda for BC: Bridging gaps in research and action and our upcoming international conference, Renewable Cities. She is also currently serving on the local organizing committee for the Seventh International Conference on Engineering Education for Sustainable Development (EESD15) because she believes environmental engineering should be an underlying principle of building, not a specialty.

[@ahemmayispeak](#)



Kathryn Sheps, *Dialogue Convenor*

Kathryn convenes dialogue, conducts research, and arranges logistics at Renewable Cities and Carbon Talks. Prior to this, she worked in the private sector on the development of emissions mitigation technology and on political and regulatory affairs.

She is passionate about keeping oceans clean and wild, creating livable cities, green/clean and alternative energy and technological innovation to help face climate challenges. Kathryn has an undergraduate degree in Biology and M.Sc. in Marine Science and has experience working on climate change issues from scientific, NGO, and business perspectives.

[@kmsheps](#)



Angela Paley, *Program Assistant*

Angela is fascinated by multidisciplinary issues and passionate about collaboration as a key to meaningful solutions. As an avid zero-waste advocate, Angela has worked most recently in BC's recycling industry, engaging the community through communications, events, and policy. Previously, she has worked and volunteered with various organizations in wildlife conservation, microfinance, and youth engagement in global issues. Angela holds a Bachelor of Arts in International Relations from the University of British Columbia.



Molly Henry, *Research Assistant*

Molly Henry is a first-year Masters of Public Policy student at Simon Fraser University and has a passion for environmental policy. She is interested in issues related to climate and energy, and the development of policies which promote the mitigation of and adaptation to impacts of climate change. Molly is enthusiastic about facilitating public and stakeholder engagement in the policy-making process, and has worked with a number of community organizations dedicated to addressing environmental issues.



Kristin Johansson, *Research Assistant*

Kristin Johansson has a keen interest in sustainable cities and the environmental challenges they face. Kristin holds a Bachelor of Arts degree in Business Strategy and Entrepreneurship within Building Technology (Chalmers University of Technology, Gothenburg, Sweden). Most recently, she worked as a project manager in Sweden's construction industry, certified as the Swedish equivalent of a LEED Coordinator. Kristin enjoys outdoor activities where she can enjoy Metro Vancouver's natural beauty, such as skiing, hiking, and sailing.

ACKNOWLEDGEMENT AND CREDITS

Renewable Cities would like to thank participants of the Global Learning Forum for their time and contributions to the event. We hope that your experience has been valuable and that you'll be able to build on the lessons and networks from the Forum to support the implementation of renewable energy and energy efficiency in cities.

In particular, we would like to express our gratitude to the dozens of panelists, moderators, and session leaders who traveled to the Global Learning Forum from around the world. Their knowledge and expertise has enriched the event.

In 2014, Renewable Cities' staff conducted an exhaustive set of scoping interviews with over 150 city staff, key thought leaders, researchers, and members of civil society. Their insights were used to co-design both the Global Learning Forum and longer-term Renewable Cities program. We would like to thank all of those who participated in a scoping interview.

A special thanks goes out to the funders of our program, without their support we could not have succeeded in scoping, designing, and launching a global program or the Global Learning Forum. Our funders and other supporters include: North Growth Foundation, Alterra Power Corporation, City of Vancouver, Pacific Institute for Climate Solutions, Vancity, the US Consulate General in Vancouver, and RBC. We would also like to thank the SFU Centre for Dialogue for housing and supporting our program.

Last, but not least, we would like to thank our partners and other affiliated organizations including: Clean Energy Canada, Cleantechica, Climate Access, City of Vancouver, Federation of Canadian Municipalities, ICLEI, Pacific Institute for Climate Solutions, Solutions Project, Urban Sustainability Directors Network, and World Future Council.

Photo credits (in order of appearance): MagnusL3D, SFU, Ted McGrath.



FORUM.RENEWABLECITIES.CA
RENEWABLECITIES.CA

TWITTER
@RENEWABLECITIES
#RECITIES

FACEBOOK
RENEWABLECITIES

LINKEDIN
RENEWABLECITIES