



Meeting Notes

The City of Calgary – Calgary Climate Panel – Meeting #4
 9:00am – 12:00noon, May 21, 2019
 Annie Gale Boardroom (Office of the Mayor), Calgary Municipal Building

Agenda

Time	Agenda Items	Lead
9:00am – 9:15am	Welcome and Agenda	Co-Chair/Convenor
9:15am – 10:25am	Climate Resilience Strategy Progress	Climate Team
10:25am – 11:10am	Funding and Financing Opportunities	Climate Team/ Energy Efficiency Alberta/ Alberta Ecotrust
11:10am – 11:40am	Communications: Fall Symposium Planning	Climate Team
11:40am – 12:00noon	Upcoming Panel Meeting & Wrap Up	Climate Team/Convenor

Attendance

Organization	Representative	May 21, 2019
Alberta Council for Environmental Education	Gareth Thomson	√
Alberta Ecotrust	Rod Ruff	√
Alberta Health Services	Dr. David Strong	√
ATCO Gas	Ryan Germaine	√
BILD Calgary Region	Grace Lui	√
BOMA Calgary	Lloyd Suchet	
Brookfield Residential	Doug Owens	√
Calgary Board of Education	Olena Olafson	√
Calgary Climate Hub	Bob Morrison	√
Calgary Chamber	Duncan Webster	√
Calgary Emergency Management Agency	Chief Tom Sampson	
Citizen-at-Large	Rev. Bill Phipps	√
ENMAX Energy	Mirela Hiti	√
Fuse Collective (New representative)	Ben Walsh	√
Siemens Canada	Adrian Francese	
Calgary Airport Authority	Harris Switzman	√
The City of Calgary – Councillor	Cllr. Peter Demong	
The City of Calgary – UEP General Manager	David Duckworth	√
University of Calgary	Dr. Jennifer Winter	
Administrative Support		
The City of Calgary – ESM Director	Christopher Collier	√
The City of Calgary – Climate Change & Environment Manager	Dick Ebersohn	√
The City of Calgary – Climate Leader	Brit Samborsky	√
The City of Calgary – Climate Team Member	Adrienne Beattie	√
The City of Calgary – Climate Team Member	Alice Yu	√
The City of Calgary – Climate Team Member	Courtney Oishi	√
The City of Calgary – Climate Team Member	Jillian Curley	√
The City of Calgary – Climate Team Member	Kaitlin Chantler	√

The City of Calgary – Climate Team Member	Warren Brooke	√
Climate Panel Convenor	Stephanie Gagnon	√
Guest Speakers		
Energy Efficiency Alberta	Justin Smith	√
Energy Efficiency Alberta	Stephanie Duncan	√

Discussion

Agenda Item Notes	Actions
<p>1. Welcome and Agenda</p> <ul style="list-style-type: none"> • Agenda overview • Introductions from all participants as there are new members joining the panel. • Reminder of the Climate Panel purpose and scope (i.e., reporting, exchanging information and being engaged for collaboration) 	
<p>2. Climate Resilience Strategy Progress</p> <ul style="list-style-type: none"> • The goals of this update are to: <ul style="list-style-type: none"> ○ Share the 2019 timelines updates for working groups and Climate team’s on-going work <ul style="list-style-type: none"> • Six working group progress updates were provided as pre-reading • Presented two working groups’ progress: Climate Education in Schools and Climate Outreach for Citizens • Working Groups - 2019 Timeline <ol style="list-style-type: none"> Engagement: Stormwater Strategy; Municipal Development Plan update; Electric Vehicle charging study (External) <ul style="list-style-type: none"> ○ These ongoing efforts are not Climate Program working groups but have climate considerations/drivers and are currently being undertaken by The City of Calgary (The City). ○ The Stormwater Strategy updates, led by Water Resources, will complete Phase 1 engagement report. ○ The new Municipal Development Plan and Calgary Transportation Plan (now called Next20) engagement is currently in progress. The Council Report with recommendations will be completed in end of 2019. ○ There are a few updates on the Electric Vehicle Strategy, including Peaks to Prairies in conjunction with ATCO and Calgary Parking Authority Electric Vehicle Charging Stations. Climate Education and Action in School Communities (External) <ul style="list-style-type: none"> ○ The Climate Resilience Strategy sets our path forward, however The City will not be able to meet its targets without collaboration. ○ The Climate Resilience Strategy also creates a framework to communicate climate change information and a structure that invites collaboration opportunities between The City and other sectors. ○ As Alberta Council for Environmental Education (ACEE) suggested to The Climate Team, school boards, in particular the three big public school boards (Calgary Board of Education (CBE), Calgary Catholic School District, Conseil FrancoSud) also have a major part to play in climate action because they are some of the city’s top real estate holders with 	

<p>almost 350 schools and they are primarily providing education to our youth - approximately 200,000 students.</p> <ul style="list-style-type: none"> ○ There are some amazing things happening within school boards. For example, CBE has a Sustainability Framework that lays out a plan for environmental action including GHG targets and how to engage students. ○ ACEE has completed a Teachers' Needs Assessment survey and the result showed that teachers would like to provide more education if the materials are available. ○ This is the reason and purpose of this working group and in the first group meetings with three major school boards, the group members discussed the vision of success for this group which is similar to ACEE's Teachers' Needs Assessment. This will help teachers who want to link climate to current curriculum and establish more local relevance with Calgary climate data. The next meeting is planned to be in June. ○ ACEE has drafted a guidebook for teachers based on peer-reviewed research and practitioner best practices about "What is Excellent Climate Change Education?" <ul style="list-style-type: none"> ➤ Climate change education has two spaces: problem space and solution space. ➤ Climate change education also consists of best line of sight on climate education in classrooms (i.e. conservation) and being outdoor to appreciate the nature. ○ Panel recommended that Climate Team to explore the collaborations with Fuse Collective and other post-secondary student groups. <p>iii. Climate Education and Outreach for Citizens (External)</p> <ul style="list-style-type: none"> ○ It is more appropriate to have this as a convening meeting instead of a working group. The City of Calgary is developing education materials, planning a symposium and environmental and energy education and there are external groups to provide expertise. Through collaboration, the Climate Team is planning the convening meeting with groups with some kind of climate education background. ○ The first convening meeting is planned to be in June. ○ The purpose of the convening meeting is to share the climate education information in Calgary, to assemble climate events happening in the Calgary area, and to offer the chance for stakeholders to advise our citizen team on the Climate Symposium to be hosted in Fall 2019. ○ This meeting will also provide collaboration for outreach but will be open for questions from the Panel members. ○ There is interest from some members to participate on the education and outreach for climate to provide energy education to help citizens. Panel members recommended to have utility companies on the working group since helping citizens to understand energy usage is important and within the expertise of the utilities. This also better aligns messages about energy and climate. ○ The timeline of the outreach working group will be: <ul style="list-style-type: none"> ➤ Convening meeting for outreach in June ➤ Climate Symposium in Q3-Q4 2019 ➤ More defined education program in Fall 2019 ○ Calgary Airport Authority has offered space for education materials (displays on baggage carousels for example) to increase citizen awareness and it is important to have citizens engaged in various ways. <p>Calgary Airport Authority has offered space for education materials to increase citizen awareness and it is important to have citizens engaged in various ways.</p>	<p>#1</p>
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<ul style="list-style-type: none"> ○ Currently Climate Team is working on the communication strategy with climate actions identified for citizens to take actions and to address local climate impacts. The public campaign will be in the Fall 2019. ○ BILD Calgary has been offering green building tours for education with open houses tours at a passive house and solar house. This is also an opportunity for post-secondary students to participate in. ○ Panel recommended that the climate education effort not only covers the education curriculum but also school infrastructure (i.e. how schools can operate with better transportation) ○ Climate Hub independently applied for federal climate action funding for outreach and business outreach. This is an opportunity that all can collaborate on the communication and outreach effort. ○ Panel recommended to include post-secondary students as part of the convening meeting to close the gaps between the K-12 and citizen education. ○ Climate Hub has hosted two community events on climate conversations, leading to actions to climate change. 	#2
<p>iv. Commercial and Institutional Energy Benchmarking (External)</p> <ul style="list-style-type: none"> ○ It is recommended to have thoughts about energy labelling for homeowners to understand their energy usage, like food nutrition labels. The residential labelling working group will start in Fall 2019 to understand the baseline. The residential labelling working group has not been established yet but the Climate Team is currently doing jurisdiction scan to understand the background. ○ Panel Members also recommend looking into a “pre-labelling” working group to discuss what the successful system would look like (i.e. improve awareness rather than comparison for penalization, engaging with real estate industry such as CREB). 	
<p>v. Natural Infrastructure (Internal)</p> <ul style="list-style-type: none"> ○ Natural infrastructure is one of the four pillars of the Resilience Strategy, which is different than the Calgary Climate Resilience Strategy. The four pillars are: <ol style="list-style-type: none"> 1. The Future of Calgary’s Economy (co-led with Calgary Economic Development) 2. Inclusive Futures (co-led with United Way) 3. The Future of Calgary’s Natural Infrastructure (where Climate Team focuses) 4. Future-Ready Infrastructure (for large infrastructure) ○ It is scheduled to bring Resilience Strategy to City Council Priorities & Finance Committee for approval on June 4th. ○ For the Natural Infrastructure pillar, municipal inventory is the first action to inform our decision making and this is something large infrastructure owners could do. ○ It is useful to have an inventory and get a valuation in use for City-owned assets. ○ The Climate Team is currently working on climate and environment issues as part of MDP to look at what type of infrastructure you can put in, which is part of the proposal to the corporate environmental plan linking to the end of next year. 	#3
<ul style="list-style-type: none"> ○ Some Panel Members are interested in learning about natural infrastructure concepts and application of tools for their portfolios. The City is currently testing internally and will share when results are in. 	#4

<ul style="list-style-type: none"> vi. Climate Lens Assessment Guidance and Tools (Internal Project) <ul style="list-style-type: none"> o The guidance and tool draft are developed to help City staff or project managers maximize our funding opportunities by showing a strong consideration of climate change mitigation and adaptation in capital planning and delivery processes. o Climate risks in Calgary have been addressed as part of the development of the Climate Adaptation Action Plan. o Common definitions in terminology are crucial, (such as “green energy” or “green infrastructure”) to better align policy development. The Climate team will be developing a glossary, and adding to it on an ongoing basis. vii. QUEST Canada Smart Energy Communities Scorecard Pilot (Project) <ul style="list-style-type: none"> o The scorecard will be completed and disclosed at end of September o Members are interested to see our strengths and opportunities to further advocate on policies such as energy regulations or this is the opportunity to demonstrate leadership. o Utilities have challenges because of the current utilities regulations (specific to transmission and distribution) and would like to do more. o Advocacy efforts can be supported by the City’s political representative. 	
<p>3. Funding and Financing Opportunities</p> <ul style="list-style-type: none"> • PACE Financing - Presentation by Energy Efficiency Alberta <ul style="list-style-type: none"> o PACE is not a new concept in USA. It is a financing tool to deploy renewable technologies with secure tax system for repayment. o There are benefits to PACE - increase cash flows and lower energy costs; utilize the tax power to help the tenants. o In USA, PACE has \$6 Billion in cumulative financing with majority in residential uptake. o In Alberta, there is a growing interest and several municipalities taking the effort to increase sustainability and make progress on climate leadership plan. o Energy Efficiency Alberta is currently working with municipalities and coaching them through the process of by-law development and council approval as the legislation has been passed in 2018. o One of the recent efforts in Alberta is the creation of the Municipal Advisory Council, where municipalities share some best practices and ideas on PACE. The City of Calgary is currently participating in the Municipal Advisory Council meeting. o Alberta PACE legislation is unique; there is a pilot with City of Edmonton and the Municipal Advisory Council in order to identify implementation gaps. o Based on Calgary’s potential, EEA has estimated there may be about 115 projects with \$7.7 Million of financing required, which would result in 6 Million kWh savings annually. o It is expected to have City of Edmonton by-law approval in Fall 2019 and the program will start in early 2020. It is targeted to have five municipalities registered under the program in 2020. o There is funding from Energy Efficiency Alberta to support home energy labelling. Note that PACE also covers home energy audits and Energy Efficiency Alberta offer incentive top-up and the home energy audit is eligible for financing. 	

<ul style="list-style-type: none"> ○ In USA, PACE program is capitalized by private sector (sustainability capital) and municipalities relay the repayment of the private capital through the property tax system. ○ Edmonton pilot programs cost \$12 Million with Alberta Capital Finance Authority with access to low interest loan. ○ Capital loan to PACE will not impact the credit rating of the host city and there is some federal funding potential to look into the program implementation. ○ Some Panel members are open to present information to Calgary’s City Council about the PACE and add voices from business to advocate for the PACE program. Administration will provide Council with an update memo on the current status of PACE in Alberta by end of May. Further discussions are still to be determined. <ul style="list-style-type: none"> ● Low Carbon Cities Canada - Presentation by Alberta Ecotrust <ul style="list-style-type: none"> ○ Alberta Ecotrust started from partnership between Petro Canada and Pembina Institute and invested in community projects related to land use, habitat, water and climate change. ○ Alberta Ecotrust has been working on solar PV projects and citizen engagement with City of Edmonton for five years. ○ A low carbon innovation centre will be built in each city to accelerate climate actions via financing and capacity building. The revolving fund model will likely be used from The Toronto Atmospheric Fund. ○ The Atmospheric Fund was started in 1991 in Toronto with \$17 Million to improve air quality in the region. ○ Alberta Ecotrust has been working with City of Calgary for climate actions and applied for Natural Resource Canada (NRCan) funding last year. ○ NRCan funding was approved with \$40 Million in total for two cities in Alberta, including each urban area to have \$2 Million for the start-up program. Updates will be announced in the coming months. ○ The funding will be focusing on four strategies: <ol style="list-style-type: none"> 1. Go where public and private dollars can’t - focus on social aspects and finance the things to get into long term solutions; 2. Go where the emissions are - every city has different emissions profile and the initial focus will be on energy efficiency and advancing building retrofits; 3. Go to where the ideas are - this includes impact investment for profit entities, grantmaking and local programs (internally-led initiatives); 4. Unlock co-benefits for communities - support opportunities that both reduce greenhouse gas emissions and maximize co-benefits. ○ Currently, Alberta Ecotrust is working with cities on a workshop to be hosted in the summer to identify opportunities. Program launch is expected to be in early 2020. The identification of stakeholders list to the funding and finance working group is in progress and open to the Climate Panel Members to suggest groups and individuals to be engaged. ○ Alberta Ecotrust has been engaging with post-secondary institutions on the Low Carbon Cities Canada program. ○ The evaluation for the project approvals will be designed by Alberta Ecotrust. ● Additional funding opportunities recently announced by NRCan on Zero Emission Vehicle Infrastructure (ZEVI) Program, which covers five infrastructure 	<p>#5</p>
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<p>funding streams: Multi-Unit Residential Buildings; Workplaces; Public Places; On-street and Corporate Fleets. This funding has a total of \$130 Million available over next five years and request for proposals timeline to be announced. This should be explored to link the current electric vehicle projects with the potential ZEV funding.</p>	
<p>4. Communications: Fall Symposium Planning</p> <ul style="list-style-type: none"> • Calgary Climate Symposium was a successful event last year and Climate Team will be hosting the second Climate Symposium in Q3-Q4 2019. This Symposium will be hosted in different venues across the city. • This is still in the early stage of planning but the second Calgary Climate Symposium will be focusing on two groups: citizens and business communities. • Solution oriented actions and tips with booths setup in expo format is proposed to help citizens to look for tips to reduce energy consumption. (i.e. solar system and electric vehicle demo) • For business communities, the format will be similar to last year - inviting speakers in a panel discussion format during a lunch and learn event to discuss about net zero homes, transportation and climate resilience. • Climate Team is looking to panel members for partnership and sponsorship opportunities to align with other local events and maximize effort (e.g. there are tours of eleven eco-solar homes on June 9th in Calgary). 	#6
<p>5. Upcoming Panel Meeting & Wrap Up</p> <ul style="list-style-type: none"> • Ideas for collaboration: <ul style="list-style-type: none"> ○ Calgary Airport Authority and University of Calgary are working on climate resilience strategy plan similar to the City of Calgary's. ○ ACEE will host its annual conference, ReCharge 2019, to advance education. There are over 100 people attending and there will be keynote speakers, such as David Dodge to present green energy futures. ○ There is a campaign on going with Alberta Environment Network to speak to MLAs about energy efficiency in Alberta. CBE recommended that there is a need to keep the energy efficiency fund going. ○ FUSE Collective has recently announced The Peter Tertzakian AB2050 Innovation Case Competition to tackle energy challenges and students would be interested to work with industries and participate in industry events. • In the next coming months, the Convenor will be focusing on drafting the first version of the climate panel report addressing panel's voice. The external co-chair will be involved and Bob Morrison volunteered to participate. The group is looking for one additional panel member to work on the draft report. 	#7

Meeting Action Items

#	Description	Responsibility	Due Date	Status
1	Climate Team to reach out to Panel members who showed interest in participating Climate Education and Outreach for Citizens convening meeting in June and in providing venue for key messages.	Climate Team	June 2019	Completed - invitations sent May 24
2	If Panel Members have opportunities arising for cross-promotion of events or organizing climate events, please send any information to the Climate Team in order to add to the climate event calendar.	Climate Panel Members	When available	
3	Check if public can speak at the Calgary Resiliency Strategy on June 4 at the Council Priorities and Finance Committee.	Climate Team	End of May 2019	Completed - a member of Priorities and Finance Committee can rise and ask someone from the public be heard from. If the Committee agrees then the public will be heard from on June 4.
4	Climate Team to reach out to Panel members who showed interest in learning about updates on City's natural infrastructure work	Climate Team	End of Q3	
5	Look into opportunities to facilitate with interested parties from the Climate Panel on climate file advocacy particularly regarding PACE and Energy Efficiency	Climate Panel Members/ Convenor	June 7 th 2019	
6	Send request to the Panel Members to partner, participate and sponsor events at fall Climate Symposium.	Climate Team	Early June 2019	
7	Contact the Convenor if interested to volunteer to review the Climate Panel annual report in September.	Climate Panel Members	June 11 th 2019	