



Meeting Notes

The City of Calgary – Calgary Climate Panel – Meeting #2
 10:00am – 12:00pm, January 16, 2019
 Edinburgh Boardroom, 2nd floor, Andrew Davison Building (133 6 Ave SE)

Agenda

Time	Agenda Items	Lead
10:00 – 10:15am	Welcome and Introductions	Co-Chair/Convenor
10:15 – 10:30am	Program Areas: Clarification Questions	Climate Team/Convenor
10:30 – 11:50am	Discussion: Priorities	Climate Team/Convenor
11:50 – 12:00pm	Summary and Wrap up <ul style="list-style-type: none"> • Next meeting reminders • Co-chair roles • Follow-up request: membership recommendations 	Convenor

Attendance

Organization	Representative	Jan 16, 2019
Alberta Council for Environmental Education	Gareth Thomson	√
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 Chamber	Duncan Webster	√
Calgary Emergency Management Agency	Tom Sampson	√ (Susan Henry)
Citizen-at-Large	Rev. Bill Phipps	√
ENMAX Energy	Mirela Hiti	√
FUSE Collective	Ben Huang	√
Siemens Canada	Adrian Francese	
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	√
Climate Panel Convenor	Stephanie Gagnon	√

Discussion

Agenda Items Notes

The meeting notes from this priority identification session are more detailed than typical Calgary Climate Panel meeting notes. The intent is to capture the conversation and enable members to move forward with priority actions between organizations as well as by providing information to The City of Calgary's Climate Team to assist with their prioritization process.

1. Welcome and Introductions

- Agenda overview and roundtable introductions

2. Program Areas: Clarification Questions

- No questions on the Program Areas were received from members in advance of the session.
- Program Area - Land Use and Transportation Planning
 - This Program Area should be captured in Section 2 - Ongoing project because it is currently in progress and led by other teams within The City. The Climate Team can connect members with the leader for this Program Area for more information.
 - There are opportunities to engage with the Municipal Development Plan (MDP) and the Calgary Transportation Plan (CTP) Updates through this multi-year process.
- Membership
 - There were questions about membership received prior to the meeting from panel members.
 - Climate panel membership was discussed at the end of the meeting with a request for recommendations from members.
 - An update was provided that Brit Samborsky was offering input from some panel members who could not attend the session. The Climate Team has been following through on the Terms of Reference generally identifying no delegates.

3. Discussion: Priorities

The main portion of this meeting was focused on understanding each organization's priorities related to the Calgary Climate Resilience Strategy to enable potential partnerships to emerge, and to provide The City with an understanding of external opportunities influencing their priority setting.

All members were asked to identify their top 3 priorities and the discussion focused on key questions such as:

- What are the drivers in climate panel members' organizations? What are the priorities for action?
- What are the drivers / reasons that these are priorities?
- Who are potential partners for each action?
- Are you aware of funding opportunities associated with this action?

Discussion generally focused on the actions that were identified as priorities by more than one panel member.

Program Area: Climate Change Adaptation

1. Water/Stormwater Initiatives and Investment (Strategies/Initiatives/Pilots) - 1 priority action identified

- There is a Stormwater Strategy as well as a Growth and Change Strategy being undertaken by The City. The driver for this being a priority is because the work is happening in 2019. There is a need to add the climate perspective in a clear and concentrated way. Recommendation that there needs to be a climate lens quarterback type role that coordinates the climate aspects into these projects. It also relates to the MDP and Investment Strategy need for this lens. Coordination within The City and better line of sight are keys to avoid gaps and preventing lost opportunities.

2. Adaption: Building and Infrastructure Resilience: - 2 priority actions identified

Comments included:

- i. Climate change adaptation and promoting building/infrastructure resilience
- ii. Ensuring infrastructure resilience to enhance effectiveness of response and recovery
 - CEMA plays a role in maintaining critical infrastructure for The City to deliver services like clean water and energy delivery to citizens and enhance effectiveness of responses and recovery. Critical infrastructure is defined using the federal 10 categories ex. Water, access, energy. The City has included a criticality factor to the municipal budgeting process. Currently, CEMA is focused on critical infrastructure, but would like to move towards focusing action on planning and land use ultimately so that infrastructure can handle any climate impacts. Ensuring funding for critical infrastructure is a priority.
 - The work on critical infrastructure is in progress and currently looking for partners. There would not be any additional resource requirements as this would consist of better coordination of the existing work.
 - Currently majority of the buildings in Calgary will be here in the next 30-50 years. As part of business continuity, how can we ensure infrastructure resilience and avoid shutting down of business for months due to flooding?
 - Links to the stormwater work underway with particular focus on flooding.
 - This work ties into the importance of public education and awareness raising regarding adaptation to current and future climate impacts

- There isn't enough information for students and workers on climate impacts.
- Behaviours do change during a weather event (i.e. reducing electricity use), and can be used as examples of communications that are effective.
- Potential partners:
 - Faith communities - both school boards and faith communities have big network of land owners and properties owners
 - University of Calgary - research capacity can be utilized (e.g., research on how disasters impact infrastructure)
 - BOMA
 - BILD
 - Citizens (especially during events)
 - Community centres
 - Recreation centres

3. Develop Climate Change Adaption & Mitigation Plan; Extreme Heat Management; Air Quality Management- 3 priority actions identified

i. Proactive Development of Adaptation Plans

- Identify risk areas; prioritize actions to support assets, employees and students
- The CBE is due for a new sustainability plan and could create a climate change adaptation and mitigation plan similar to what The City has done, e.g. to address the impact to students from smoke and heat events.
- This action could be beneficial to any organization undertaking their own adaptation plan, with a knowledge-sharing focus.

ii. Extreme heat management

- The current work will need refinements with partners including efforts on:
 - Mapping clustering
 - Understand impacts on: Vulnerable people to develop heat island map; Connect work around and check on seniors who are suffering heat stress; Outdoor workers during the heat events
 - Shelter in place opportunities: Opportunity to utilize HEPA filters in buildings
 - Explore what other facilities should be considered that have a significant influence on the impacts for vulnerable people during smoke and heat events (e.g., low income, seniors rentals) - is there a municipal role here?
 - Potential to connect to health records to focus messages about potential impacts, and mitigations appropriate to the person's condition.
 - Opportunity to explore the building code's role re: filters/AC

iii. Air Quality Management - coordination of communication for public during prolonged smoke events, especially high risk populations

- Response to smoke events
- Focus on messaging/mitigation appropriately
- Provide information for public, and partner with organizations on how to mitigate a smoke event (i.e. understanding code grey situation with shelter in place with HEPA filters and map of cooling centres at concentrations of vulnerable people.)
- There are relationships between each of proactive adaptation planning, air quality management and extreme heat management, and the identified potential partners are:
 - ENMAX - may currently be focused more on reaction to events
 - CBE
 - AHS

- BOMA
- BILD
- Brookfield
- The City - resource
- Recreation centres
- Community centres
- ASHRAE experts - resource

Program Area: Building Energy Performance

1. **Participation of Energy Efficiency Alberta Strategic Energy Management Cohort Program - 1 priority action identified**
 - First cohort in Calgary since Fall 2018 and there is one similar in Edmonton: CBE is participating with 5 of their schools
 - This program is a way for participants to obtain coaching and funding to reduce greenhouse gases emissions and improve infrastructure and to share best practices/lessons learnt on building benchmarking and labelling.
 - The first cohort is filled, but there is likely to be another in a year

2. **Building Energy Labelling (Residential and Commercial) and Commercial Energy Benchmarking - 6 priority actions identified**
 - Industry currently has resources working on this initiative.
 - Labelling can bring bringing awareness to the public about energy use through measuring building level data and in a way that enables comparison between buildings. The impact is similar to food literacy - the labels provide consistent information for people to make informed choices. Seen as a strong tool to improve climate performance.
 - The current 2017 National Energy Code of Canada for Buildings applies to 3% of the building stock (new builds) and addresses climate technology. The remaining 97% of the buildings require retrofits for improvement and in order to incentivize people to renew the building and perform upgrades, labelling as part of energy literacy would be a key aspect.
 - Some members would recommend that labelling be mandatory, and others suggested using a 'pull' rather than 'push' approach would be appropriate. Clear standardization is seen as critical with the ability to include certificates as proof of labeling. Some comments included that some regulation can be a good approach, for example the National Energy Code.
 - While industry has established working groups on this, the recommendation is that The City would need to lead it.
 - Potential Partners:
 - CEB
 - BILD
 - BOMA
 - ENMAX
 - ATCO
 - CBE
 - UofC

3. **Energy labelling requirements link both to the City Charter and PACE legislation - priority action arose through the discussion**
 - As part of provincial legislation and City Charter, PACE will provide an option for improvements but there are concerns on the regulation format. Based on current assessments, the PACE regulations require refinement to work well, but the concern is the entire PACE program may be removed if the government doesn't see the value after

the refinement. There is currently no central voice to advocate for this area with the current government but industry has established a working group.

- Considered an urgent action because of the provincial government timelines

4. Ongoing Energy Efficiency in the Built Environment - 2 priority actions identified

Comments included:

- i. Ongoing energy efficiency through energy performance contracts and building automation for building retrofit is important for long term planning as we heard more about net zero new built.
- ii. UofC: managing energy use in built environment related to retrofits, net zero new builds, district energy, long-term planning

5. Distributed Energy/Combined Heat and Power (Multi-family/Commercial) - 1 priority action identified

- Already implemented, opportunity to expand
- High impact, short timeline, ready
- Participation from: Planning (City), Developers, Engineering firms, Property Management companies, Architects
- Potential Partner: ENMAX, UofC
- Additional comment that with the new code, DE and CHP are not as needed to get energy efficiency and GHG emission targets. A view that new buildings by 2030 will not require the amount of thermal energy from combined heat and power, in both commercial and residential buildings.

6. Community Energy - 1 priority action identified

- Medium/high impact, short timeline, ready
- Active involvement underway
- Participation from: project developers, T&D providers, permitting bodies
- Strong interest from ENMAX

Program Area: Citizen Awareness and Engagement - 7 priority action recommendations

There was significant interest in the citizen awareness and engagement realm with understanding that this program area is in very early stages, and could address many aspects. The conversation included the following priority action recommendations:

1. Public education, Citizen awareness (to build grassroots support)
2. Educating public on energy and increasing energy literacy related to cost and greenhouse gas emissions
3. UofC: advancing both education and research; integrating education and research; supporting community needs through research; community engagement
4. In each program area, researchers interested in helping to address all the working groups. Opportunity to match researchers with the work, and support with data, metrics, evidence.
5. Calgary and area teachers and students (K-12) must become more environment, energy, and climate literate, and take action.
6. Linking climate to current curriculum is important and currently, the curriculum is being reviewed and re-written.
7. Provide students (and Calgarians) with the knowledge and skills to thrive in the climate uncertain future.
8. Increase understanding of risk landscape, mitigation measures and preparedness actions as a shared responsibility.
9. We're interested in convening Calgary & area educators and education groups around environment, energy, and climate education - and connect to City's Climate Resilience Strategy and proposed actions. Propose we launch this through a summit which would take place Thursday 23 May.

- Additional discussion included:
 - Energy retailers can distribute information at consumer level to educate public (i.e. conversation about literacy, energy saving and customer money savings which are the main driver for behavior).
 - There will be ACEE ReCharge Conference on May 23, 2019 on convening conversations on climate, energy and environment specific to Calgary area.
 - Alberta Narratives is a useful resource to create productive conversation.
 - Alberta Ecotrust is currently administrating Energy Efficiency Alberta upcoming funding on energy education. Recent grant recipients will soon be looking for partners.
 - There will be an event on March 30, 2019 hosted by Calgary Association of Lifelong Learners on Climate Change: What is an Albertan to Do?
 - There is a project currently in progress at The City collaborating with 100 Resilient Cities and Climate Team ensures there is an alignment with the Calgary Climate Resilience Strategy

- Potential partners for the Program Area as a whole include (and not limited to):
 - Green Calgary
 - Inside Education
 - Alberta Ecotrust
 - ACEE
 - CBE
 - University of Calgary
 - Alberta Narratives
 - Bill Phipps

Program Area: Land Use and Transportation Planning - 7 priority action recommendations

This is ongoing and important to share the alignment on climate lens and planning by participating in updates of MDP/CTP. It is also useful to understand who holds the decision role in the policy development.

Comments included:

1. Policy / Process Review and Alignment (including definitions)
2. MDP & CTP Updates
3. Ensuring planning and policy lens reflects the changing climate
4. Engage in the design conversations that will see Calgary become a smart city: connecting to smart cities work
5. Metrics for progress - integrating research into internal actions to develop evidence, data
6. Transportation - public and private / Land use planning (density at LRT stops)
 - The general recommendation from the panel members was that it is important to have a coordinated approach with a climate lens and supported by the Calgary Climate Panel. Industry appreciates that policy alignment is hard but needs guidance from the climate perspective.
 - Potential partners:
 - BILD
 - Fuse Collective
 - University of Calgary
 - CEMA (tying into existing work)
7. Additional Priority Action Recommendation: Work with City to examine health impacts of disruptive transportation technologies

Program Area: Low Carbon Transportation

1. Low Carbon Fleet and Charging Infrastructure (4 Priority Actions Recommended)

- Comments included both EV charging and low carbon fleet initiatives
- Transportation has a high impact on GHG requirements, and the focus should be on low carbon frameworks that support each person/businesses choice of approach/technology.
- The discussion focused on the fact that this working group would be useful to many collaborators, and should start with considering the end goal of community needs for both fleet and infrastructure and the relationship to the grid or energy generation/storage. Home and car become more connected to each other as one system with energy storage for management and this is based on future infrastructure planning.
- Comments included:
 - i. Thoughtfully managing transition to electric vehicles (infrastructure)
 - ii. Low Carbon Fleet initiatives:
 - Fleets are large emitter - will require fleet replacement initiatives and infrastructure, whether it is electric vehicles or compressed natural gas vehicles
 - High impact, short timeframe, ready
 - Pilot planned, funding outstanding - ENMAX pilot is coming with a funding request in, focus on intracity and medium duty fleets
 - Participation from: The City; other utilities and municipalities; fleet owners; charging infrastructure OEMs
 - iii. Low Carbon Transportation (Home & Work Charging) - should consider EV, natural gas and other technologies
 - iv. Develop / Contribute to creation/expansion of EV charging/CNG fleets

Program Area: Renewable and Low Carbon Energy

The responses to this program area were generally supportive of renewable energy without detailing specifics (3 priority action recommendations). As a result, detailed discussion was not undertaken. The comments were:

1. To develop energy services (heat and power) that reuses carbon emissions in a cost-effective way to customers
2. Renewable and low carbon energy in multi-family, commercial buildings and communities
3. Increase renewable energy portfolio - look at innovative ways to use renewable energy without being renewable energy producers.

4. Summary and Wrap Up

- Next meeting reminders
 1. Climate team will document and work on their priorities and report back on areas for actions in next quarter meeting on February 28, 2019.
 2. Next meeting will be focusing on reporting, communications, funding opportunities, working group progress and co-chair roles.
- Co-chair roles
 1. Please contact Climate Team if the panel members have interest in serving as co-chair for 2019 prior to next meeting.
 2. Should multiple members express interest in the co-chair role, The City will support the diversity of the panel membership through the role, and look to create a rotating position.
- Follow-up request: membership recommendations

1. Climate panel members to provide recommendations for additional panel members reflecting the Climate Strategy (up to 5 to be added) by January 22, 2019.
2. Reminder of diversity matrix discussed at the November Panel meeting, and an overview of the additional gaps discussed at that time. Comment that 'Business' category could be further broken down to differentiate by business models.