

Hamilton Community Energy Plan

Community Stakeholder Advisory Committee

Meeting Summary

Date & time: March 4, 2020 (1:15- 3:30)

Location: City Lab, Hamilton

Attendees:

Advisory Committee Members

Adam, Watson, City of Hamilton, Neighbourhood Development Section

Alivn Baldovino, McMaster University

Andrew Sebestyen, Stelco

Ankur Mehrotra, HCE Energy

Bianca Caramento, Hamilton Chamber of Commerce

Chris Cuthburt, Hamilton Health Sciences

Chris Shilton, City Housing Hamilton

Chris Hamilton, Enbridge Gas Inc.

Denise Hussey, HydroOne

Eric Roehl, Hamilton Health Sciences

Gillian Lind, HydroOne

Heather Travis, City of Hamilton, Planning Division

John Lundrigan, ArcelorMittal Dofasco

Karen Logan, Hamilton Industrial Environmental Association

Katherine Flynn, Mohawk College, Centre for Climate Change Management

Kevin Van Hartingsveldt, Hamilton Burlington Society of Architects

Linda Lukasik, Environment Hamilton

Mary Georgious, McCallum Sather Architects/Hamilton Burlington Society of Architects

Michael Frisina, Alectra Utilities

Rafique Dhanji, Sustainable Hamilton Burlington

Richard Allen, Hamilton Chamber of Commerce

Ryan Hoeksma, Hamilton Wentworth Catholic District School board

Steve Molloy, City of Hamilton Transportation Planning and Parking Services Division

Susan Wylie, HydroOne

Tony Cupido, Mohawk College

Project Team Staff and Consultants

Christine Newbold, Planning & Economic Development Department
 Trevor Imhoff, Healthy & Safe Communities Department
 Tom Chessman, Public Works Department
 Justin Waud, Planning & Economic Development Department
 Marian Penetrante, Planning & Economic Development Department
 Kyra Bell-Pasht, Sustainability Solutions Group
 Yuill Hebert, Sustainability Solutions Group

Objectives

- Introductions to the Community Energy Plan (CEP) project, the role of the Stakeholder Advisory Committee (SAC), and to all members of the SAC, City project team, and consultant team
- Discuss and decide on an approach to project: vision, goals, and title.
- Undertake a Hamilton energy mapping exercise to help inform the trajectory of the project

Agenda

Time	Description	Lead
15	<ul style="list-style-type: none"> • Welcome & Introductions 	City
20	<ul style="list-style-type: none"> • Introduction to the City InSight model 	SSG
15	Brief presentations from select SAC members -Hamilton Health Sciences -Chamber of Commerce	SAC member volunteers
	Break	
20	<ul style="list-style-type: none"> • Developing CEP vision & goals • Workshopping a new, more captivating project title 	SSG
10	Next steps	City

Meeting Summary

Welcome and Introductions:

Christine Newbold welcomed the group and acknowledged that the meeting is being held on the traditional indigenous territories. The Project Team was introduced. An overview of the Community Energy Plan project was presented. The Terms of Reference for the Community Stakeholder Advisory Committee was reviewed, and Advisory Committee Members were asked to sign the back page of the Terms of Reference and leave it with a Trevor Imhoff, provided a brief presentation on the City's climate change emergency declaration and the City's corporate response including the work of the Corporate Climate Change Taskforce.

Inspiration from our Stakeholders - Presentations:

Two short presentations by Advisory Committee members were given to highlight some of the work that member organizations have been doing to reduce energy use and greenhouse gas emissions in the community.

1. Richard Alan, Hamilton Chamber of Commerce

- Waste Heat Recovery Pilot Project
- Funded by Toronto Atmospheric Fund /Steel industry partnership
- 2 year project
- Studying potential for the adoption of future waste heat to energy applications in Hamilton's industrial waterfront area
- Outcomes would be reduction of energy use and GHG emissions but also cost savings to businesses and promotion of local business competitiveness.

2. Eric Roehl, Hamilton Health Sciences

- HHS comprises 30 buildings totaling 4 million sq feet
- \$13 million annual in energy costs
- 3 sites using are using cogeneration (producing about 23 MW)
- natural gas powered but hope is that use will be minimized over time
- Major success with retrofits and benefits include large money savings to HHS and also helping with resilience

Introduction to Energy Modelling Presentation:

Yuill Hebert (SSG) gave a presentation on the CityInsight Model that will be used to model base line and future energy scenarios. Key points include:

- Future is unknown, the modelling exercise helps inform decision-making and avoid negative emissions lock in
- Outputs of the model depends on accuracy of data inputs
- City InSight uses a systems dynamic approach, which uses a bottom up approach and a top down approach
- Starting with a demographic model then spatial component and dwelling types
- Track equipment within those dwellings
- Demographics and inputs evolve over time
- First buildings, residential and non-residential, then transportation, then waste, and finally energy production
- Spatial design to support planning processes
- Cost of carbon post 2022 is unknown...incorporate this into our sensitivity analysis
- Models currently available technology, however demand is increasing to push the boundaries
- Financial cost catalogue will be produced (capital & operating expenses):
 - As a bundle: tend to have a net benefit to society
 - Based on assumptions of discount rate
- Detailed roadmap:
 - Effectively provides a carbon budget for the City (e.g. Oslo, see also France)
 - What is most important are cumulative emissions, not point-in-time emissions

Scenario Planning

- thinking beyond our reality
- Filled with uncertainty (e.g. hydrogen, coronavirus, permafrost melting may expose new pathogens)
- helps us understand that the decisions we make today lock in patterns of emissions long into the future (e.g. Atlanta vs. Barcelona emissions per capita)
- Dr.Jaccard recently advised the Bay Area Climate Change Taskforce to avoid lock-in to specific technologies in regulations/policies (i.e. electric vs. hydrogen cars)

Stakeholder feedback/comments/questions

- Target for new social housing is the Passive House standard
 - City has provided loans to social housing for this type of project in the past which went well

- Canadian Steel Association, nationally, made a declaration today of their goal to have the steel industry reach net zero by 2050¹
 - Technology now exists for blast furnaces & arc furnaces to electrify (each produces different types of steel)

Developing Vision and Goals

Attendees were asked to work in groups to list visions, goals and/or principles that should be reflected in the CEP. The following feedback was recorded (grouped by theme):

- **Equitable energy transition**
 - The CEP should prioritize vulnerable, low-income populations, especially their health.
- **Resilience:**
 - The CEP should focus on renewing infrastructure to be resilient.
 - Use neighbourhood energy planning to help ensure resilience.
- **Community-led:**
 - The CEP should involve community networks and partnerships to ensure effective implementation.
 - The CEP should focus on the community voice and participation. In order for this to be possible, there needs to be resources for local action.
 - For example, neighbourhood groups (potentially existing groups) could undertake local energy planning exercises. This type of activity would also strengthen community bonds which create community resilience.
- **Education**
 - The CEP should help educate residents on the positive climate actions that have already taken place or are underway in the City.
 - For example, the flares that have been introduced to steel mills in Hamilton's north end.
- **Clean energy**
 - The CEP should prioritize the growth and use of local, renewable, decentralized energy generation and distribution infrastructure.

¹ <https://www.globenewswire.com/news-release/2020/03/04/1995059/0/en/Canada-s-Steel-Producers-Set-A-Goal-to-Achieve-Net-Zero-CO2-Emissions-by-2050.html>

- This includes modernizing Hamilton’s electricity grid and expanding cogeneration facilities, for example their ability to sell energy to neighbouring buildings.
 - Hamilton should capitalize on the opportunity to market itself as a modern, smart city that is home to smart industry.
- **Biodiversity**
 - Build on Hamilton’s strength: its green spaces! Hamilton has already done amazing work revitalizing its natural spaces
- **Economic development**
 - Develop a CEP with a sound business case
 - The CEP should help Hamilton develop an economic competitive advantage
 - Attract industry/businesses through cutting edge energy efficiency / lower costs & inputs
 - Become a global leader in sustainable Industrial practices
 - Brand Hamilton as a smart city/home to smart industry
- **Practical** climate mitigation and adaptation actions
 - Make communications/strategy easy and practical so that the community can connect with it vs. be immobilized by it
 - Communicate as if speaking directly with a resident/ business
 - E.g. replacing a natural gas boiler with a heat pump has a bigger emissions reduction impact than buying an EV
 - Other low-cost, zero cost actions

Brainstorming Title Exercise:

Attendees were asked to put their ideas down for a new title for the CEP that would be more meaningful and captivating for the public. Attendees were asked to add to the list of ideas that had been started earlier in the day by a group of City staff. A title should be memorable and easily recognizable to a public audience. The title could potentially be used as an umbrella title under which future programs and initiatives could be established. For example, City of Toronto’s “Transform T.O.”.

The following ideas were received:

- Renew Hamilton
- Cleaner, Greener Hamilton
- Hamilton- the ambitious, Sustainable City
- Energizing a post-carbon Hamilton

- N-Power Hamilton
- Hamilton's Energy Renaissance
- Hamilton's Future Energy Footprint
- Energize Hamilton
- Let the Community Name the Plan!
- Energy ReBoot
- Ambitious Climate Transformation (ACT)
(ACT Hamilton)
- Real Action for Real People
- Hamilton Climate Action Strategy
- There is no Planet B Community Strategy
- Greater Hamilton Greenhouse Strategy (GHG)
- Getting Hamilton Green Strategy (GHG)
- Recharge Hamilton
- Ham-X50

Next Steps:

City staff and the consulting team reviewed the project schedule with the Advisory Committee. Next steps identified were:

- Website launch and crowdsourcing surveys (March)
- Development of model and 'Business as Planned' scenario – April/May 2020
- Broader public engagement on CEP at local events (e.g. earth day events) – starting April and ongoing.
- Advisory Committee Meeting #2 – modelling workshop – June 2020