



Hamilton Community Energy & Emissions Plan Community Stakeholder Advisory Committee

Implementation Summary and Financial Analysis Results

Meeting Summary

Date & time: March 17th, 2021, 9:30-11:30 am

Location: Zoom conference call

Contents

| | |
|---------------------------------|---|
| Attendees | 2 |
| Webinar Objectives | 2 |
| Description | 2 |
| Implementation Feedback Summary | 3 |
| Summary of Engagement To Date | 3 |
| Financial Analysis Results | 3 |

Attendees

1. Kyra Bell-Pasht (SSG)
2. Yuill Herbert (SSG)
3. Ralph Torrie (SSG)
4. Tom Chessman (City of Hamilton, Energy Office)
5. Trevor Imhoff (City of Hamilton, Public Health)
6. Christine Newbold (City of Hamilton, Planning)
7. Heidi Levitzky (Hamilton Industrial Environmental Association)
8. Ryan Hoeksma (Hamilton Wentworth Catholic District School Board)
9. Chris Hamilton (Enbridge)
10. Chris Cuthbert (Hamilton Health Sciences)
11. Lynda Lukasik (Environment Hamilton)
12. John Lundrigan (AMD Dofasco)
13. Kevin Van Hartingsveldt (McCallumSather/HBSA)
14. Michael Collins-Williams (WEHBA)
15. Bianca Caramento (Bay Area Climate Change Council)
16. Sara Yonson (Oshawa Hamilton Port Authority)
17. Richard Allen (Hamilton Chamber of Commerce)
18. Rafiq Dhanji (Sustainable Hamilton Burlington)
19. Gail Krantzberg (McMaster University)
20. Hugo Vargas (Alectra)
21. Vickram Lakhian (Smarter Alloys)
22. Ankur Mehrotra (Hamilton Community Energy Inc.)

Webinar Objectives

- To provide a summary of the implementation feedback received from SAC members through the Google Forms.
- To understand the financial modeling results.
- To answer any questions SAC members may have on the financial modelling results.

Description

A webinar that will provide:

- An overview of the implementation feedback received from SAC members through the Google Forms.
- An overview of the results of the financial modelling completed based on modelled the low-carbon scenario.

The webinar will end with a Q&A session, where SAC members can ask questions related to the financial modelling results.

Implementation Feedback Summary

Participants were presented with the feedback from the previous stakeholder meeting and additional workshops. Please refer to PowerPoint presentation for details of the presentation.

[See webinar PPT slides for summary of implementation feedback]

Participant Questions & Comments

- Why is there push back on energy efficiency and reductions? These also lowers GHGs.
 - Energy emission factors are different based on the various fuel types; therefore, finding efficiencies for certain types of energies over others will result in greater reductions of GHG emissions. Example - electricity energy efficiency due to Ontario's relatively clean grid would not have nearly as big of an impact from a GHG reduction perspective as reducing an equal amount of energy from a diesel or natural gas energy source. However, energy efficiency in general is a very important component of the CEEP.
- We need to buy hydroelectric power from Quebec - avoid the push to add more natural gas to our provincial power grid system.
- Current carbon intensity of the grid is low but keeping it that way will be a challenge in a transition to low-carbon future that includes vehicle electrification and building electrification. In this context, electricity efficiency measures are much more valuable as GHG reduction measures than they appear if one only looks at the current grid intensity.
- Industry needs abundant and affordable low-carbon electricity for residents and businesses. Governments should develop alternative renewable/low-carbon energy infrastructures (e.g., biomass, hydrogen). The City can help support and lobby for these.
- There are some subdivisions being built that have a district energy geothermal heating infrastructure installed by developers, so that the new homes don't burn gas.
- With respect to urban expansion, more consideration should be given to the impacts of urban expansion on GHG emissions, prior to proposing an urban boundary expansion.
- Keeping rural, rural and intensifying the core does more for GHG reductions than building net zero homes on rural lands.

Summary of Engagement To Date

[See webinar PPT slides]

Financial Analysis Results

SSG provided a presentation on the Financial Analysis Results.

[See webinar PPT slides for financial analysis results]

Participant Questions & Comments

- To what extent does the calculation get derailed if the carbon price is eliminated or frozen in place?
 - There will be a sensitivity analysis completed for a reduced and/or removed carbon price. This will provide some insight as to the return on investment for the proposed actions, in the event of a change to the carbon pricing.
- Is the \$8.4 billion over 30 years additional investments to the Hamilton economy or is this diverted from other areas of the economy?
 - This would be additional investment.
- The energy savings are likely conservative given that the carbon free fuel source costs will likely come down significantly over time.
- Will the exclusion of the capital investments for steel from the financial model be spoken to in the CEEP? The investment of capital into our steel industry could be the biggest game changer in our emissions reductions, while also providing significant economic co-benefits. This exclusion distorts the scale of the investment needed.
 - This will be spoken to within the report. As the pathway for industry to get to net-zero by 2050 is not clear at the moment (there are multiple feasible pathways), creating an accurate financing model surrounding it is very challenging.
- Are the heat pumps being modeled for individual buildings or a centralized heat pump DE system?
 - They are being modelled for individual buildings through building retrofits; however, the inputs for the DE expansion and decarbonization do model centralized systems.
- Given the sizable annual investment needed (and the challenge of garnering immediate gains on our investments), does the CEEP implementation plan discuss the opportunity to issue green bonds or start/participate in a green bank?
 - The CEEP implementation plan will discuss the opportunity to issue green bonds and/or start/participate in a green bank.