



Hamilton

BUILDING RETROFITS

WORKSHOP

February 5th, 2021

Agenda

- | | |
|---|-------------------|
| 1. INTRODUCTION + TECHNICAL DETAILS +
BACKGROUND | 10 Minutes |
| 2. BREAKOUT WORKING GROUPS | 40 Minutes |
| 3. DEBRIEF + CLOSING | 10 Minutes |

Community Energy and Emissions Plan Project Team

STAFF PROJECT TEAM

- Christine Newbold, Community Planning
- Andrea McDowell, Air Quality & Climate Change
- Trevor Imhoff, Air Quality & Climate Change
- Tom Chessman, Office of Energy Initiatives
- Spencer Skidmore, Community Planning

Building Retrofits

The Community Energy and Emissions Plan calls for:

1. Mass deep energy retrofits of commercial and residential buildings, achieving 50% of thermal and electrical load savings.
2. These deep energy retrofits will also be accompanied by electrification of water and space heating, and in some cases, solar rooftop PV.

Modelling Inputs

Retrofit homes built prior to 1980:

- Starting in 2021, by 2050, on average, all existing dwellings built before 1980 achieve thermal savings of 50%; electrical savings of 50% (not including electrification of space and water heating)
- Applied exponentially to homes

Retrofit homes post 1980:

- Starting in 2035, retrofit 100% of all dwellings built between 1980 and 2016, exponentially, by 2050 (following pre-1980 dwellings).
- Achieve on average thermal savings of 50%; electrical savings of 50% (not including electrification of space and water heating)

Retrofits of commercial buildings:

- Starting in 2022, increase efficiency for 100% of commercial buildings by 50% by 2050 (linearly)

Focusing On 'The How'

Some Suggestions:

1. design and create a HERO (Home Energy Retrofit Opportunity) program in Hamilton;
2. establish a strong local network of building retrofit providers; including partnering with institutions on training a new work force.
3. establish a local retrofit accelerator/portal;
4. promote and encourage home energy audits; and,
5. how can we promote equity through this action?

Google Form

Building Retrofits

Debrief

SUMMARY OF THE DISCUSSION FOR EACH GROUP



Hamilton

QUESTIONS?

THANK YOU!