

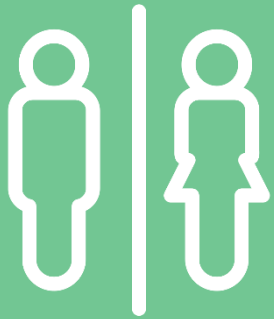
# Newton Climate Action Plan Implementation Open House

Thursday, March 21, 2019



Hosted by:  
City of Newton  
Metropolitan Area Planning Council

# Housekeeping



# Agenda

6:15 PM **Welcome** Jennifer Steel, City of Newton

6:20 PM **Opening Remarks** Mayor Ruthanne Fuller, City of Newton

6:25 PM **Action Plan Process & Context** Megan Aki & Brooks Winner, MAPC

6:35 PM **Open House Activities**

**Round 1** 6:35 – 7:00 (25 min)

**Round 2** 7:02 – 7:27 (25 min)

**Round 3** 7:29 – 7:54 (25 min)

**Round 4** 7:56 – 8:20 (24 min)

8:20 PM **Closing & What's Next** Claire Rundelli, City of Newton

# Tonight's Goals

- ✓ Describe the planning process thus far
- ✓ Share first draft action plan: goals, strategies, and actions
- ✓ Gather your input on what you like, what you don't like, and what we missed
- ✓ Collect ideas about creative opportunities for implementation of the plan: partnerships, outreach, funding sources, etc.

# Opening Remarks

Mayor Ruthanne Fuller



# Newton's Climate Action Plan

Plan Development and Local Context for the Actions

# Three Climate Related Plans

**Municipal  
Vulnerability  
Assessment  
(MVP)**

**Climate  
Action Plan  
(CAP)**

**Hazard  
Mitigation  
Plan  
(HMP)**

# CAP Process & Timeline

**October 23, 2018**

CAP Kick-Off Open  
Roundtable Discussion

**December 5, 2018**

Public Meeting w/City Council  
Public Facilities Committee

**March 21, 2019**

Final Public  
Workshop

**October 2 – November 16**

Community input via on-line questionnaire

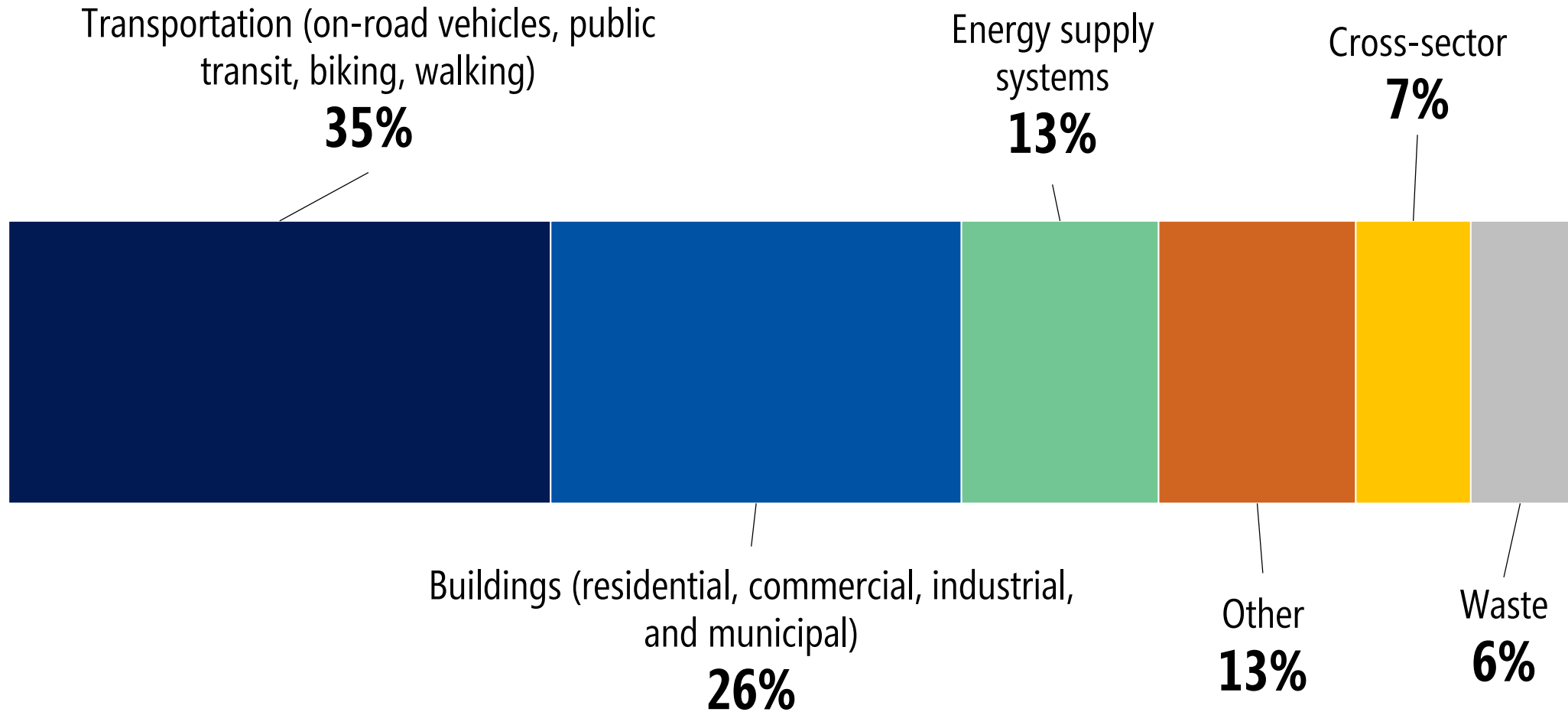
**December 2018 – January 2019**

Coordination Meetings with the Newton  
Citizen's Commission on Energy

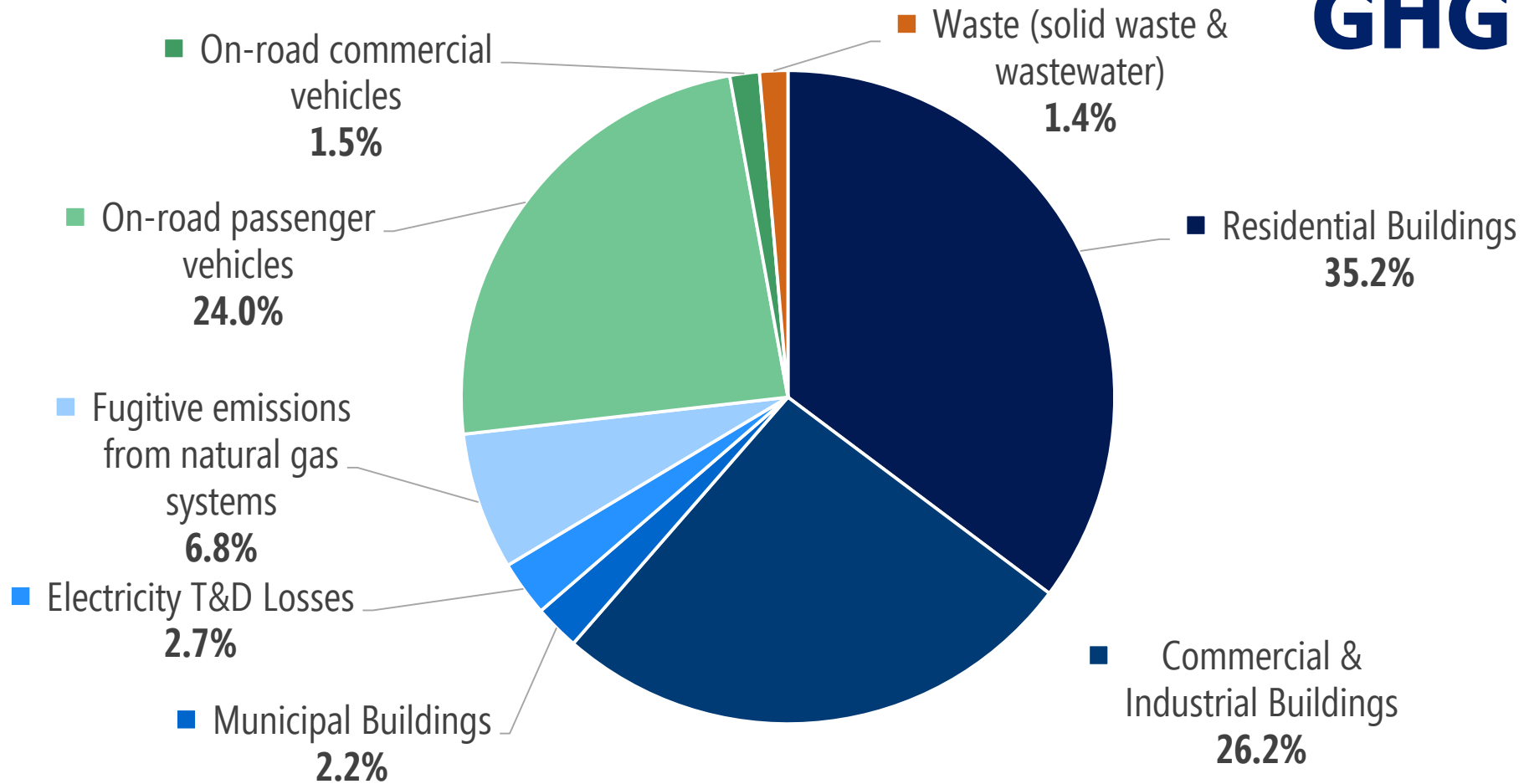
**CAP**  
**Plan Completion**  
**April 2019**



# Public Input Overview

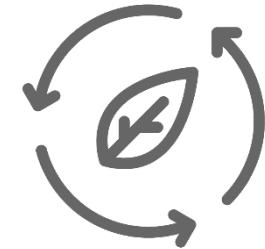
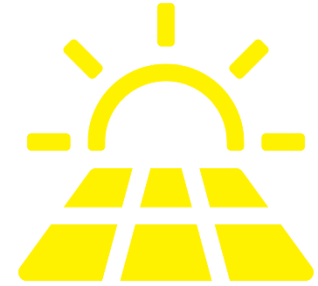


# Newton's 2013 GHG Inventory



# Plan Focus Areas

- Municipal Climate Leadership
- Clean Energy Supply
- Mobility
- New Construction & Major Renovations
- Existing Buildings
- Consumption- & Disposal-Based Emissions



# Municipal Efforts Underway

- \$1.3 million in Green Communities grants
- Newton Power Choice
- Transitioning municipal fleet to EVs
- LED conversion
- Municipal solar



# Focus Area: Municipal Climate Leadership

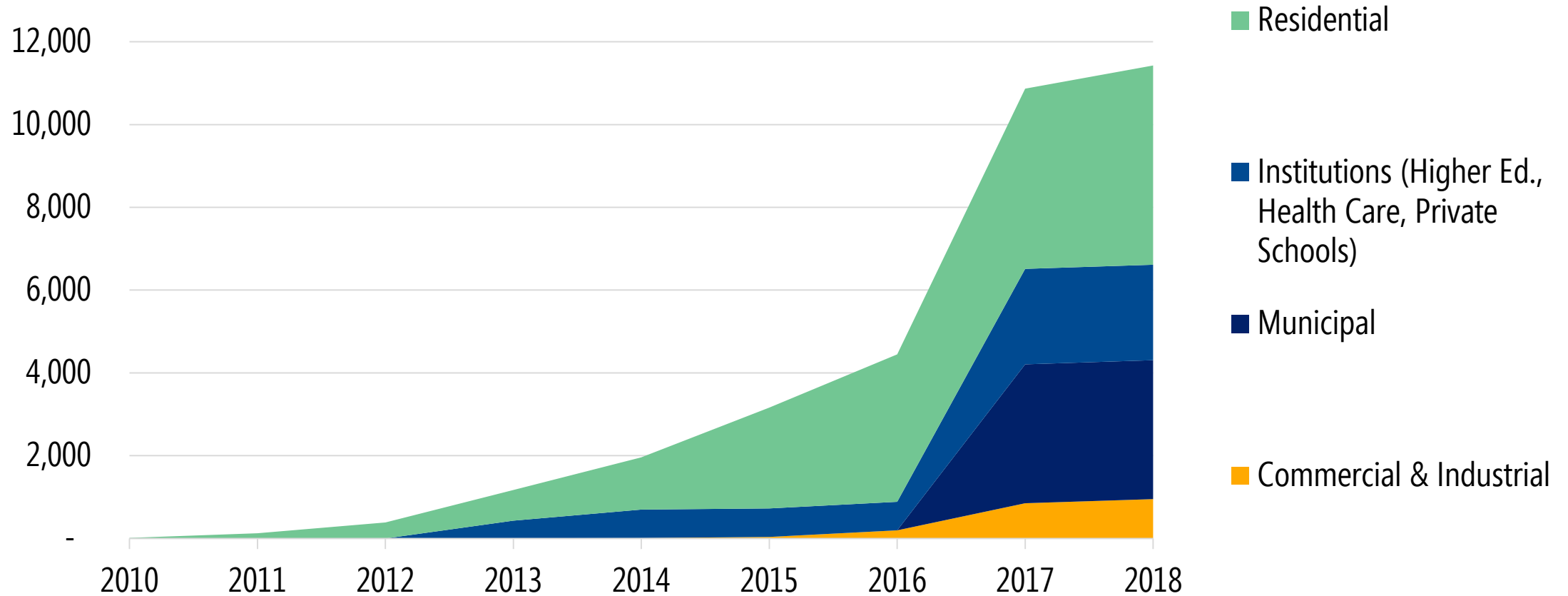
## Five Year Plan Goals

- Begin phasing fossil fuels out of municipal operations
- Advocate for policies that advance climate action at the state, regional, and federal levels
- Share lessons learned and best practices with other communities
- Plant 800 street trees per year as a part of the Street Tree Planting Plan to continue to grow Newton's Urban Forest.



# Renewable Energy in Newton

Total kW of Nameplate Capacity (DOER 2018 SREC Data)





# Focus Area: Clean Energy Supply

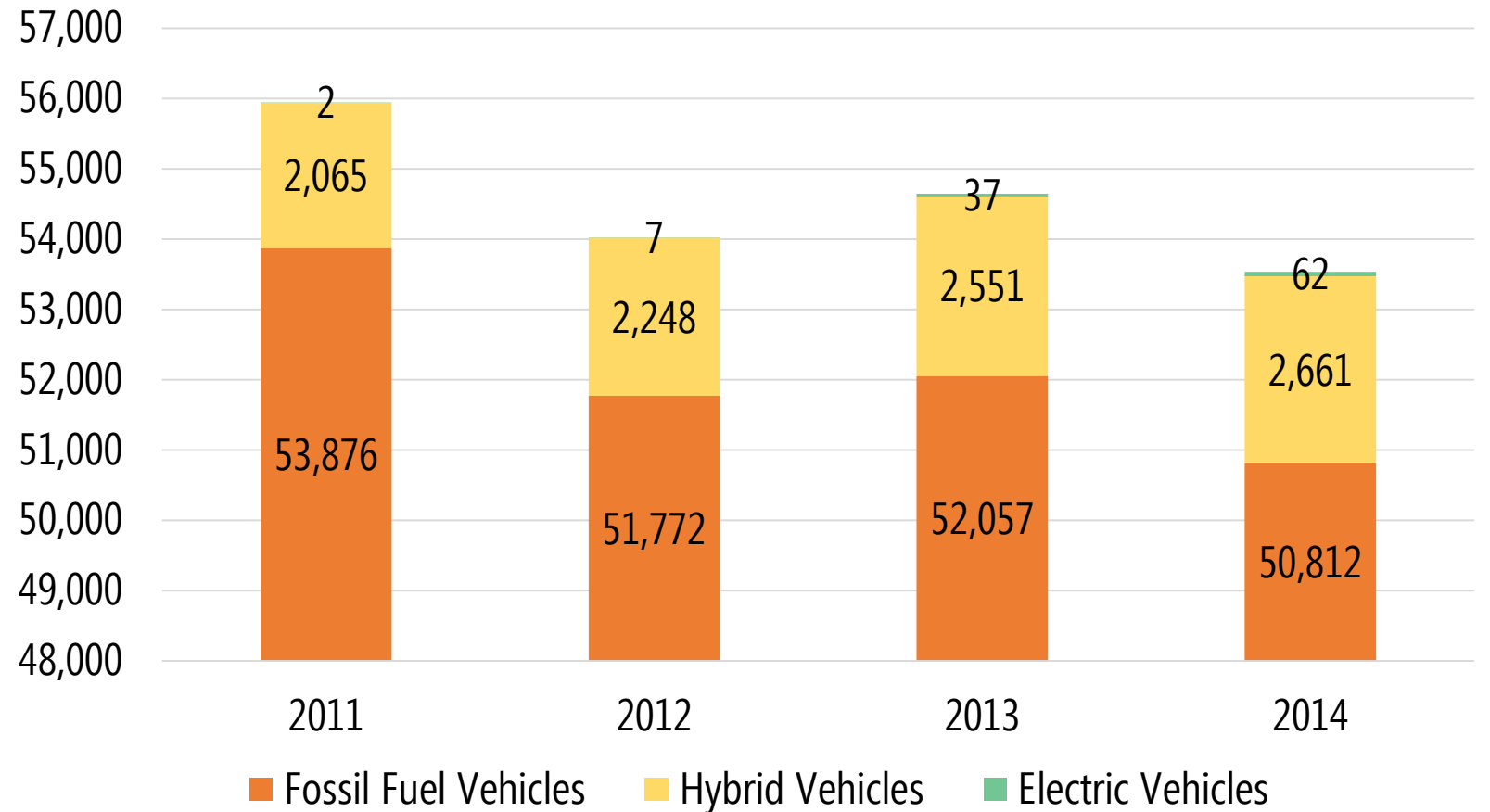
## Five Year Plan Goals

- Establish facilities, policies, and programs that put the City on a pathway toward community-wide transition to **100% renewable energy by 2050** with due attention to the cost-burden on vulnerable populations.
- Focus on municipal green energy production, regulatory improvements, and public outreach, education, and facilitation.



# Registered Vehicles In Newton

By Fuel Type, MA Vehicle Census (2011 - 2014)





# Focus Area: Mobility

## Five Year Plan Goals

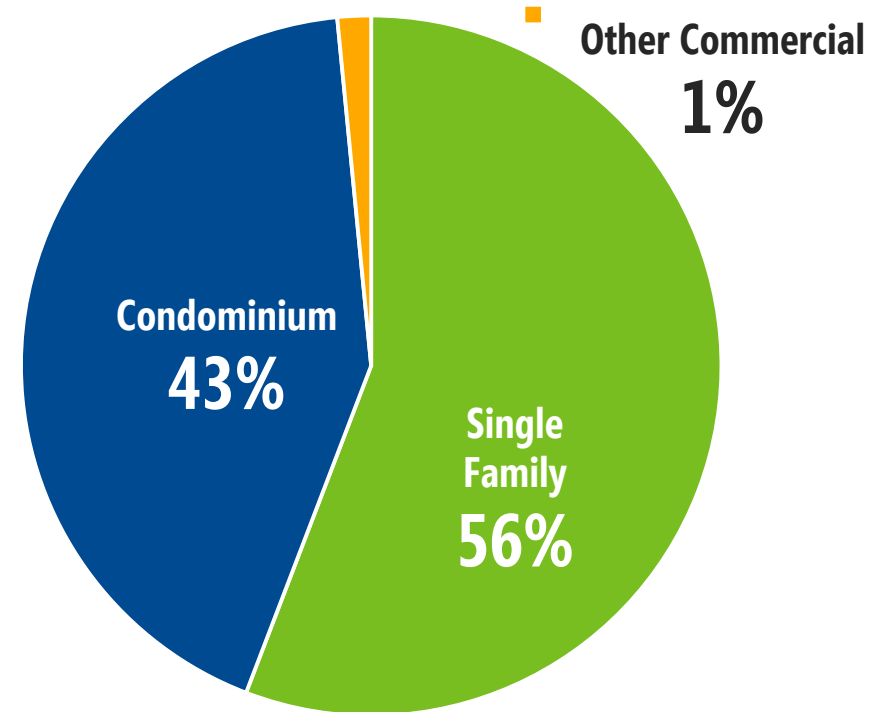
- Double the share of trips taken by Newton residents via public transportation, biking, and walking from 18% of trips to 26% of trips (aligned with the mode shift targets set the Newton Transportation Strategy).
- Reduce vehicle ownership from 1.3 cars per household to 1 car per household
- Improve access to and adoption of electric vehicles and other low-carbon alternative fuels where market options are available.
- Enhance public transportation offerings to meet Newton's needs



# New Construction & Major Renovations



Proposed Northland Development Project

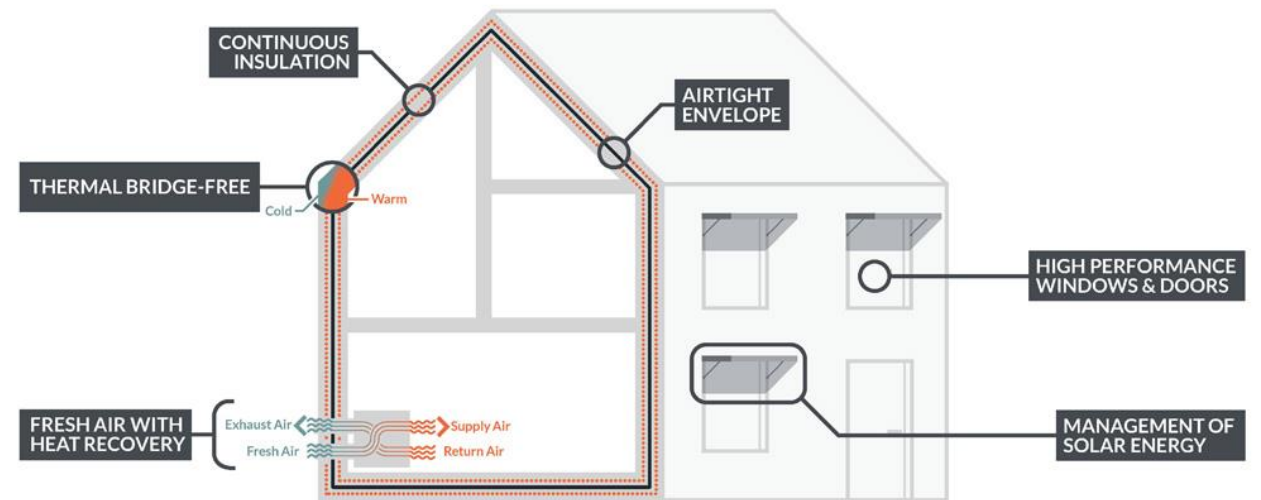


**Buildings Constructed in Newton**  
City of Newton Assessor's Data, 2013-2017

# Focus Area: New Construction & Major Renovations

## Five Year Plan Goals

- Move toward a low-energy building stock by requiring that new construction and major renovations meet increasingly high energy performance standards and embodied carbon techniques to the extent permissible under state law.
- Promote development that reduces energy intensity of building stock, increases density, improves resiliency, and reduces energy cost burden on everyone, especially vulnerable populations in Newton.

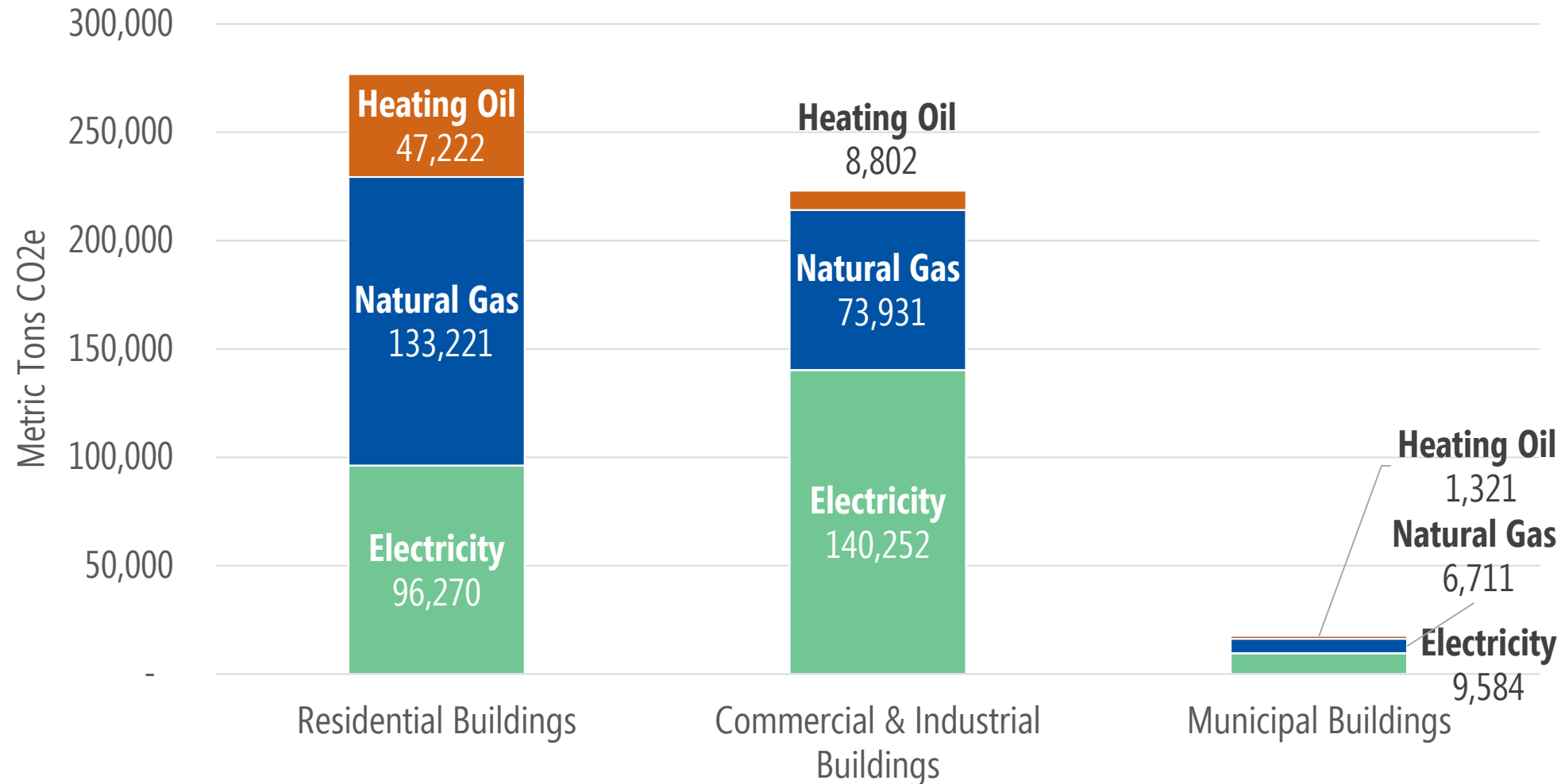


## PASSIVE HOUSE PRINCIPLES

© ⓘ ⊖ HAMMER & HAND

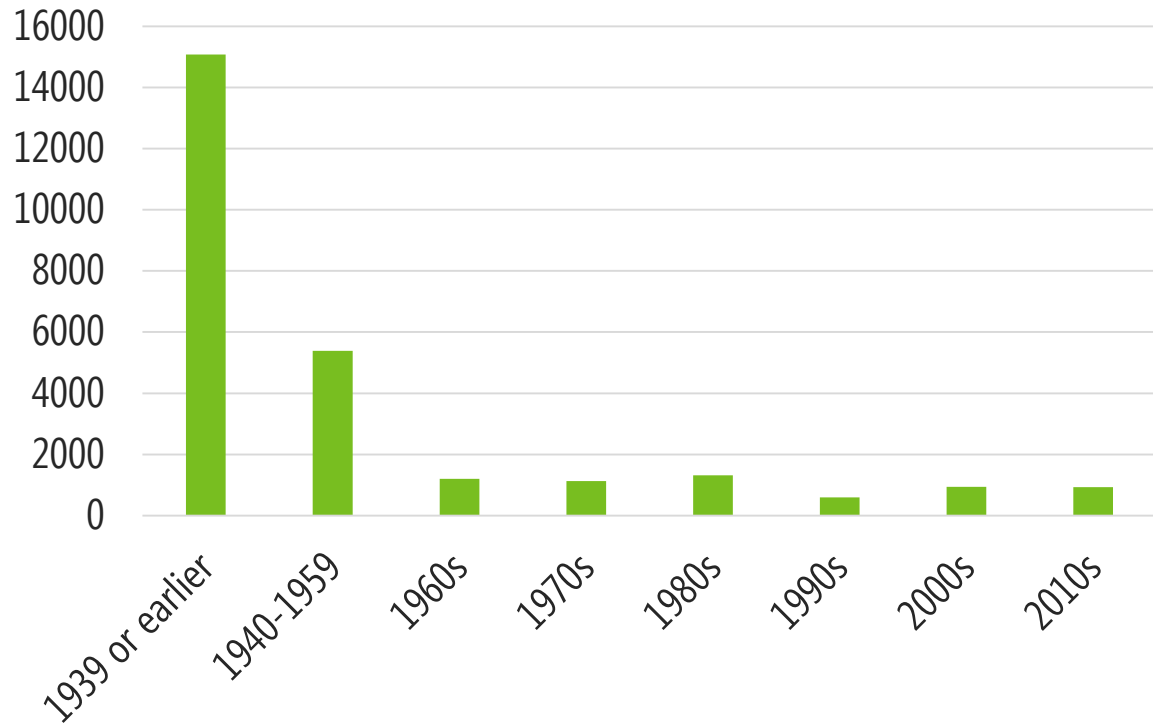
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# Newton's Existing Buildings

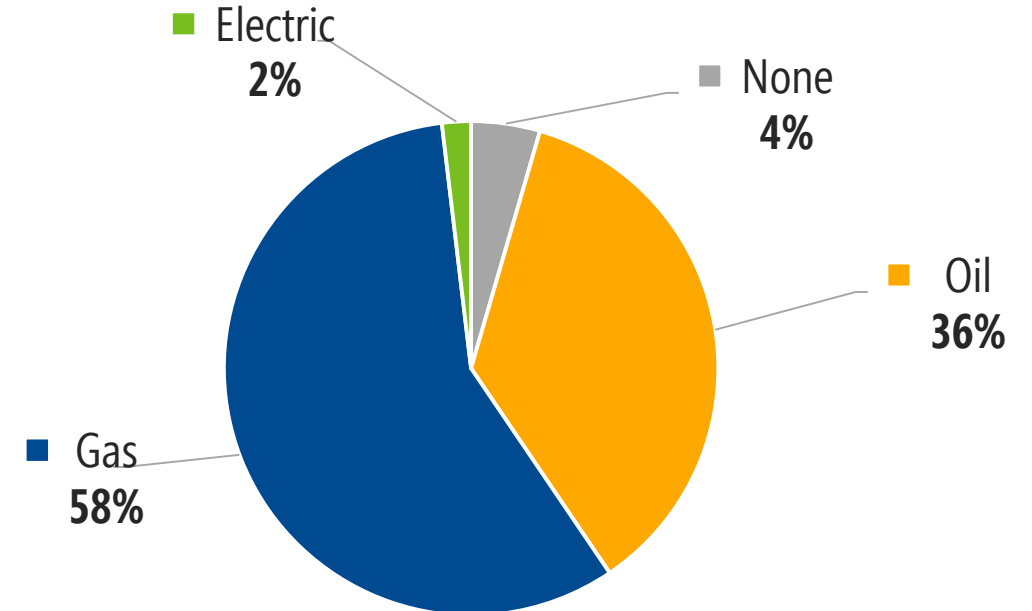


# Newton's Existing Buildings

## Newton Buildings by Year Built



## Building Heating by Fuel Type (All sectors)





# Focus Area: Existing Buildings

## Five Year Plan Goal

- Significantly decrease emissions from existing buildings by increasing energy efficiency and transitioning to clean heating and cooling.



[The Hammond House. By John Phelan - Own work, CC BY 3.0](#)

# Focus Area: Consumption- & Disposal-Based Emissions

## Five Year Plan Goals

- Encourage Newton residents to consume less, re-use more, and recycle what they can.
- Work toward achieving deep reductions in waste generated by Newton residents and businesses and map out a pathway to achieving zero waste by 2050.

In 2013...

**29%** of the City's  
municipal solid waste was  
**recycled** and  
**20%** of was  
**composted.**

# Action Evaluation Criteria



## GHG Reduction Potential

**HIGH** This action will have **direct, significant** impact on GHG emissions.

**MODERATE** This action will have an **indirect or hard-to-measure** impact on GHG emissions.

**ENABLING** This action may not reduce emissions directly but is an important **enabling action**, necessary for the City to move forward on other priority actions.

## Feasibility

Existing local models.

Existing national or international models.

Existing local commitments.

## Cost to City

**Low** <\$10,000

**Medium** \$10,000 - \$500,000

**High** >\$500,000

## Other Benefits

Equity

Economic

Public health

Environment

Resiliency



# Tonight's Open House Activities

Let's Talk Implementation!

# Open House Instructions

1 hour and 40 minutes

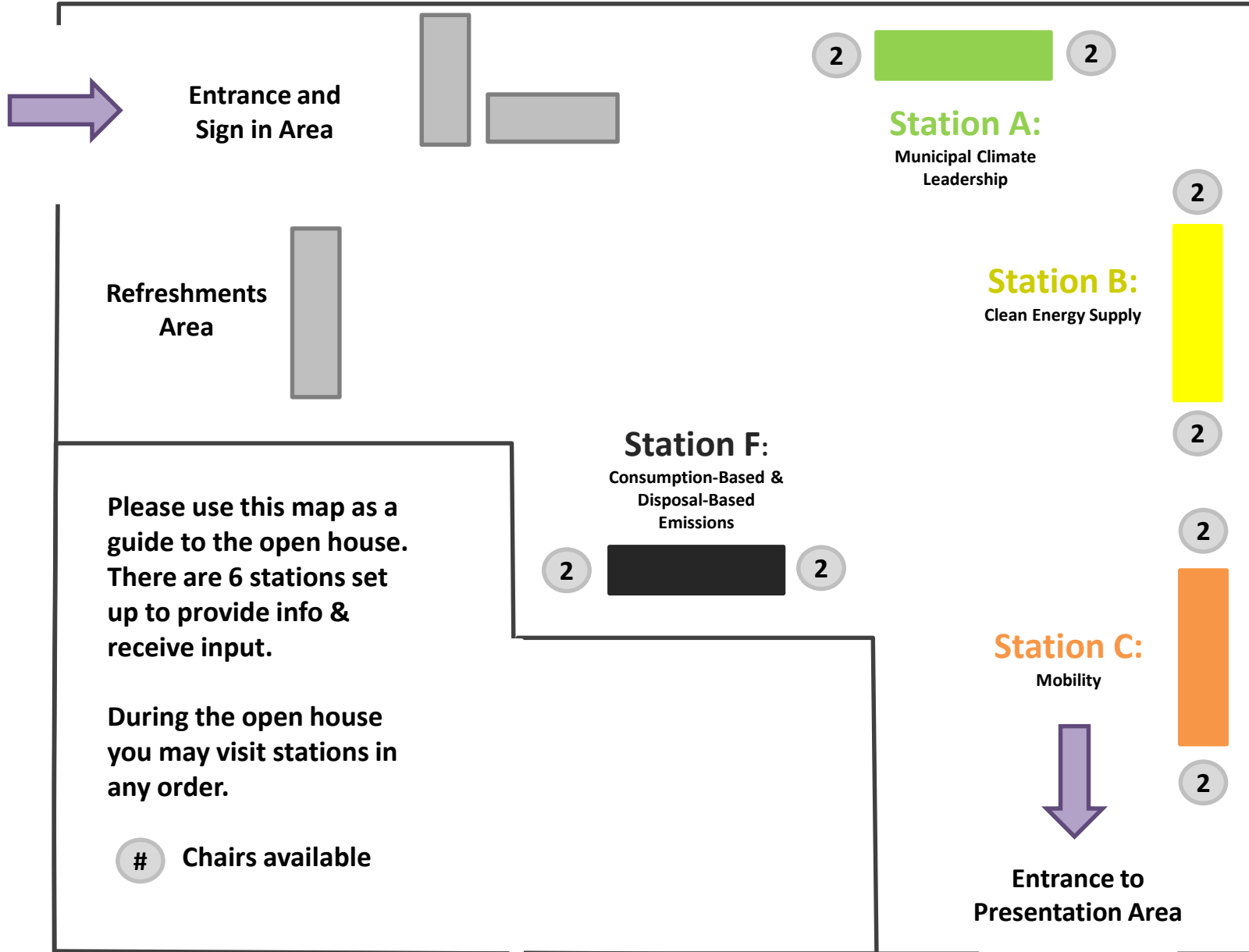
Each station has **two activities** – dot prioritization activity & post-it note feedback board.

**Facilitators** will be available at each station to listen to your feedback and explain the exercise.

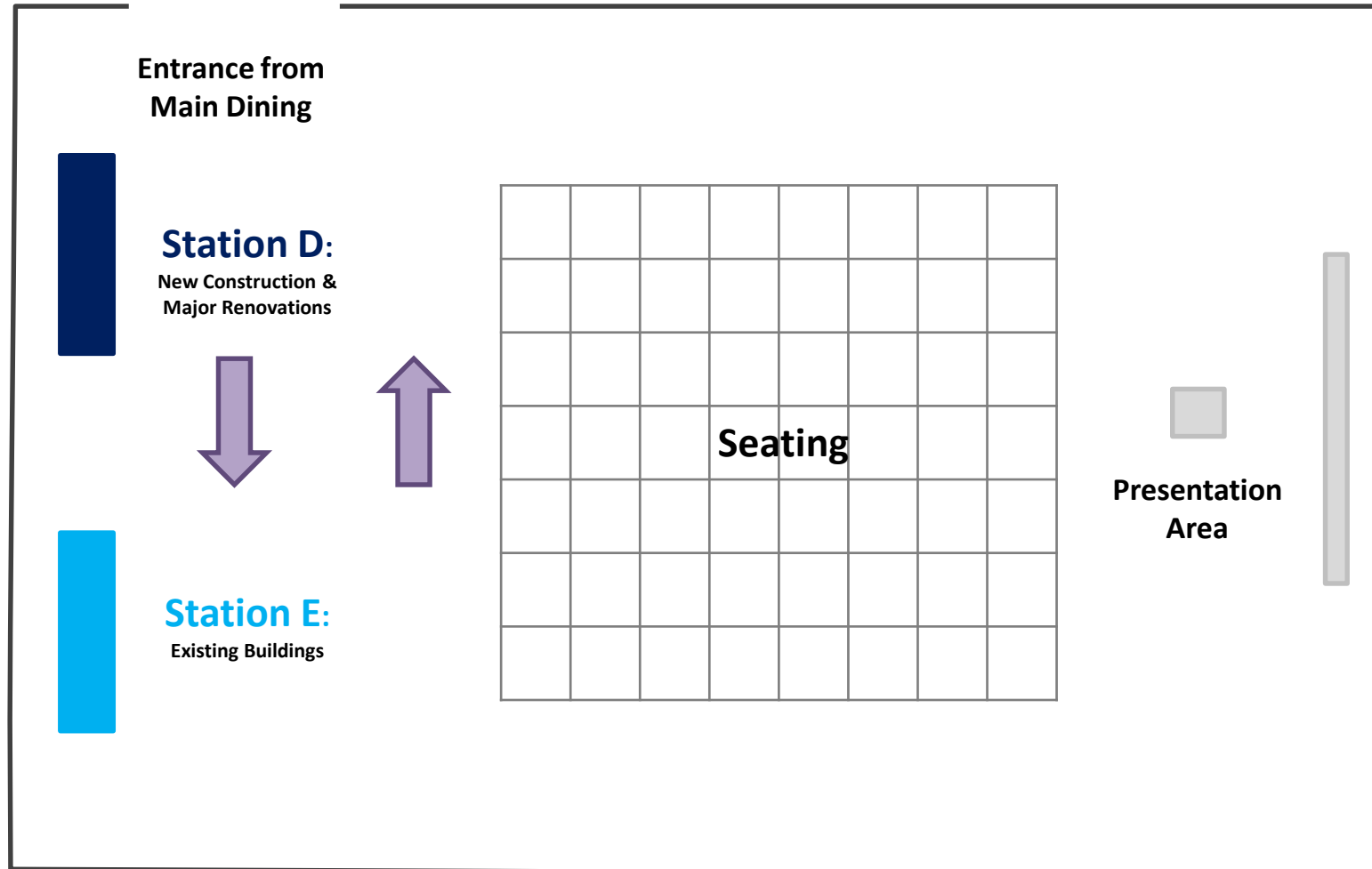
You may only have time to visit **4 of the 6 stations**.

We'll remind you when each round is up – you're welcome to stay at your current station or move on to a new one!

# NEWTON OPEN HOUSE ROADMAP



# NEWTON OPEN HOUSE ROADMAP



Chairs for stations D and E will be moved from the seating area after the presentation portion of the agenda

**Round 1: 6:35 – 7:00 (25 min)**

Go to your first station!

**Round 2: 7:02 – 7:27 (25 min)**

Find a new station!

**Round 3: 7:29 – 7:54 (25 min)**

Find a new station!

**Round 4: 7:56 – 8:20 (24 min)**

Go to your final station!



# Wrap Up & Next Steps

All of tonight's **materials** and related information are available at:

**[www.newtonMA.gov/climate](http://www.newtonMA.gov/climate)**

Emailed comments on draft material due by **Monday, March 25**, send them to **[climateplanning@newtonma.gov](mailto:climateplanning@newtonma.gov)**

MAPC will submit the revised draft plan to the City for finalization by City Staff on **April 22, 2019**.

