

# City Council Public Facilities Committee Newton Climate Action Plan Discussion

Wednesday, December 5, 2018

Presented by:

Metropolitan Area Planning Council



# Tonight's Goals

**Provide an update** on the City's Climate Action Plan process and establish a shared understanding of work that is underway.

**Gather feedback** on existing ideas and hear from the Public Facilities Committee on their priorities and perspectives.



# **Newton's Climate Action Plan: Why Now?**

# 2018 IPCC Report



Greenhouse gas pollution must be reduced by **45 percent** from 2010 levels by 2030, and **100 percent** by 2050 to prevent 1.5°C of global warming.

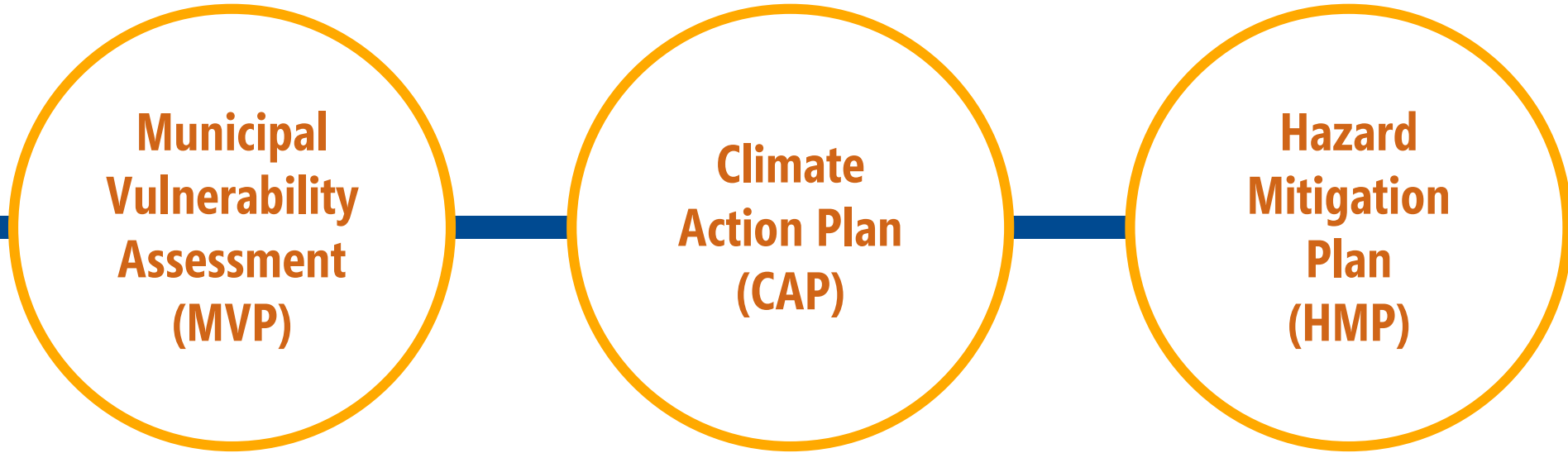
# Newton's Commitment to Climate Action

"Working together, let's build for tomorrow by making Newton a greener city today, where sustainability is our touchstone and renewable energy the order of the day."

*– Mayor Ruthanne Fuller*



# Three Climate Related Plans



# Newton's Climate Action Plan

Reduce **greenhouse gas emissions** across all sectors in Newton

Solid Waste

Wastewater

## WASTE

Bikes & Pedestrians

Public Transit

On-Road Vehicles

## TRANSPORTATION

Existing Buildings

New Construction

Carbon Offsets

Renewable Energy

## STATIONARY ENERGY

# What does success look like & how do we get there?

Reduce energy consumed across all sectors

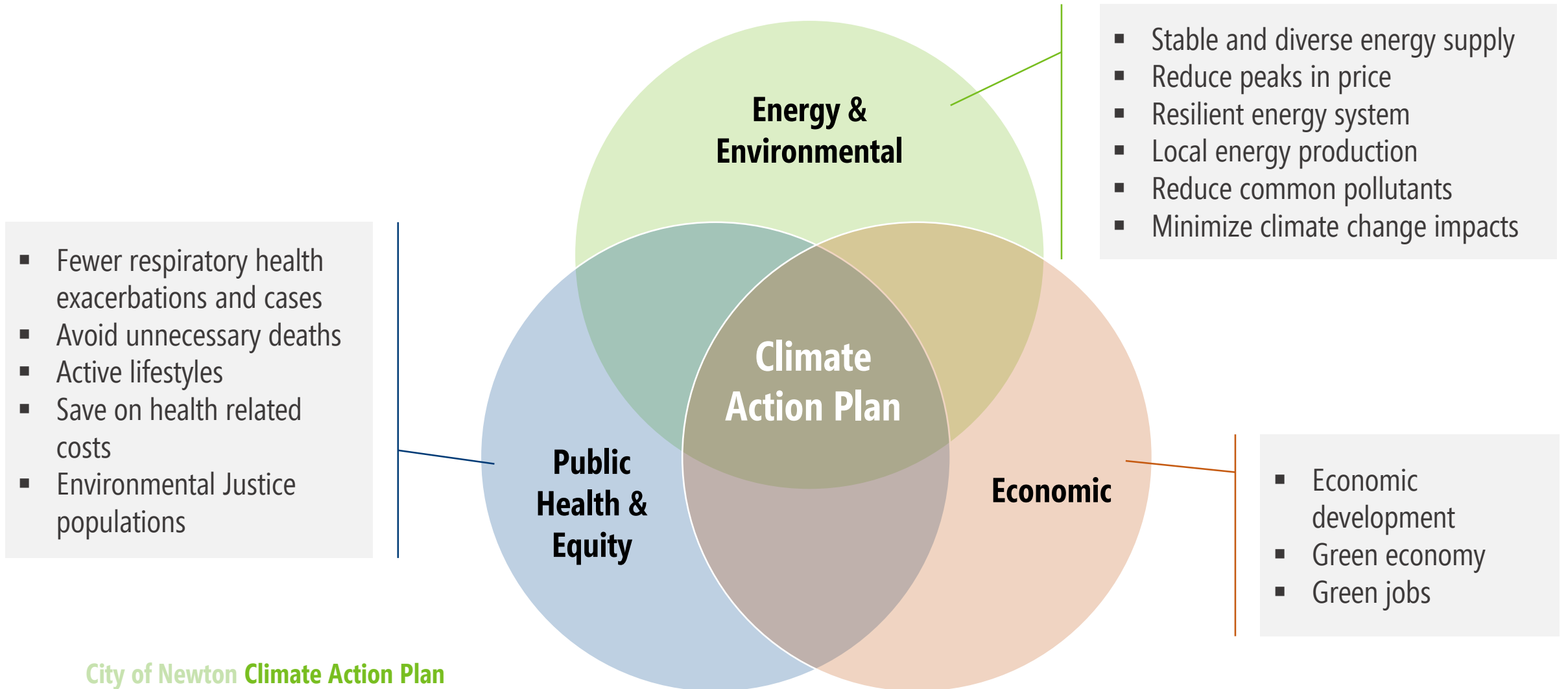
Switch from fossil fuels to renewable sources of energy

Produce more local renewable energy

Sequester carbon (capture & recovery)



# Co-Benefits of Climate Action



# CAP Process & Timeline

**October 23, 2018**

CAP Kick-Off Open  
Roundtable Discussion

**December 5, 2018**

Public Meeting w/City Council  
Public Facilities Committee

**TBD, January 2019**

Final Public  
Workshop

**October 2 – November 16**

Community input via on-line questionnaire

**CAP**  
Plan Completion  
February 2019

# Kick-Off Roundtable Discussion

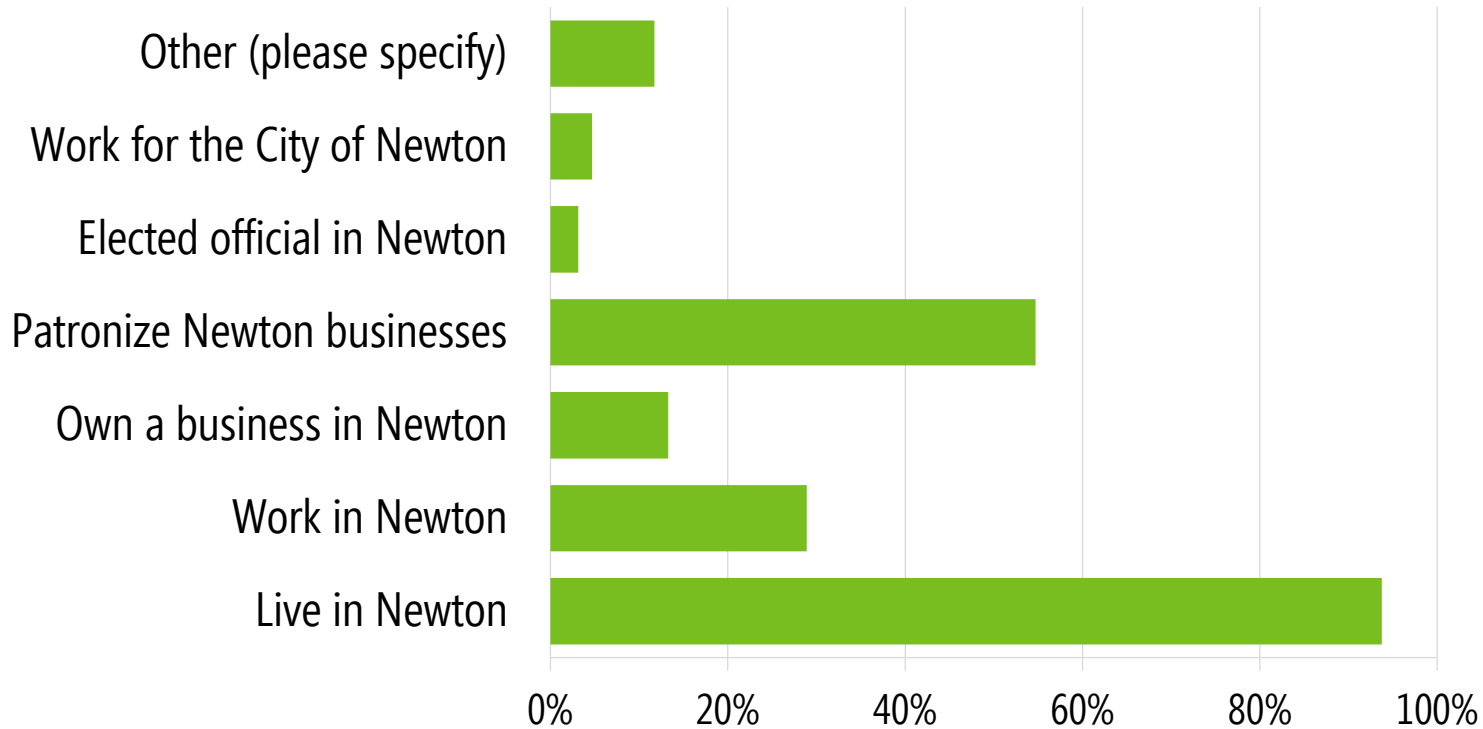
60+ Attendees

9 Table Discussions



# Community Input Form Results

Who are you? Choose as many as you like.



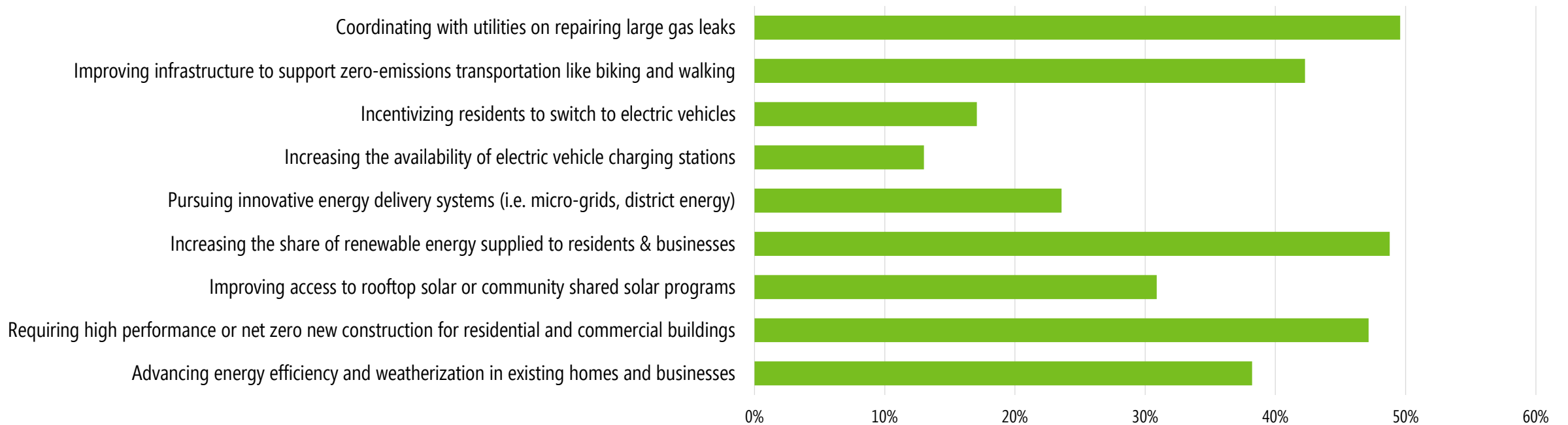
Open from **October 2** to  
**November 16, 2018**

**128** total submissions

**81** ideas & suggestions

# Community Input Form Results

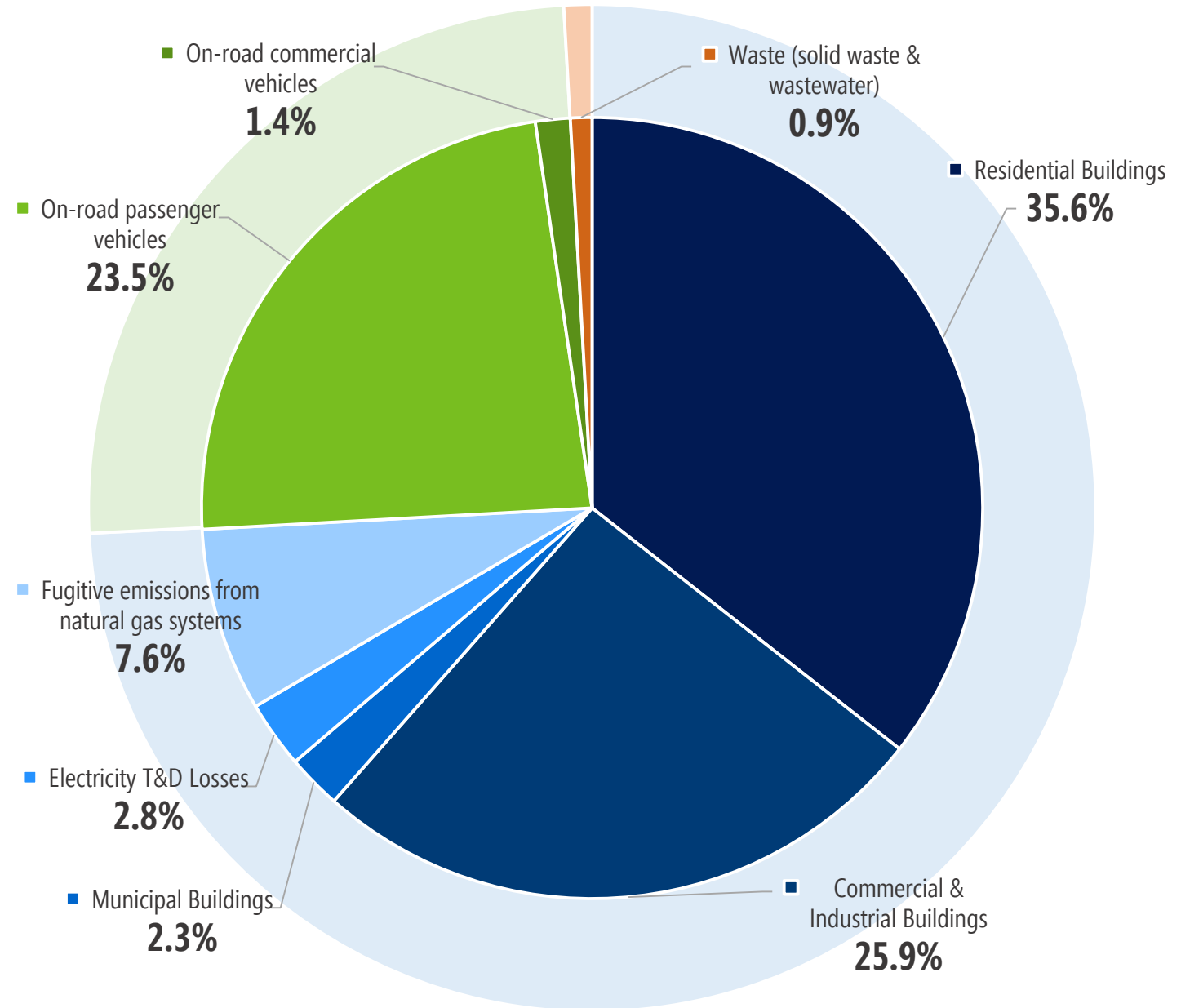
**What is most important to you?  
Please select the three actions that you find the most important.**



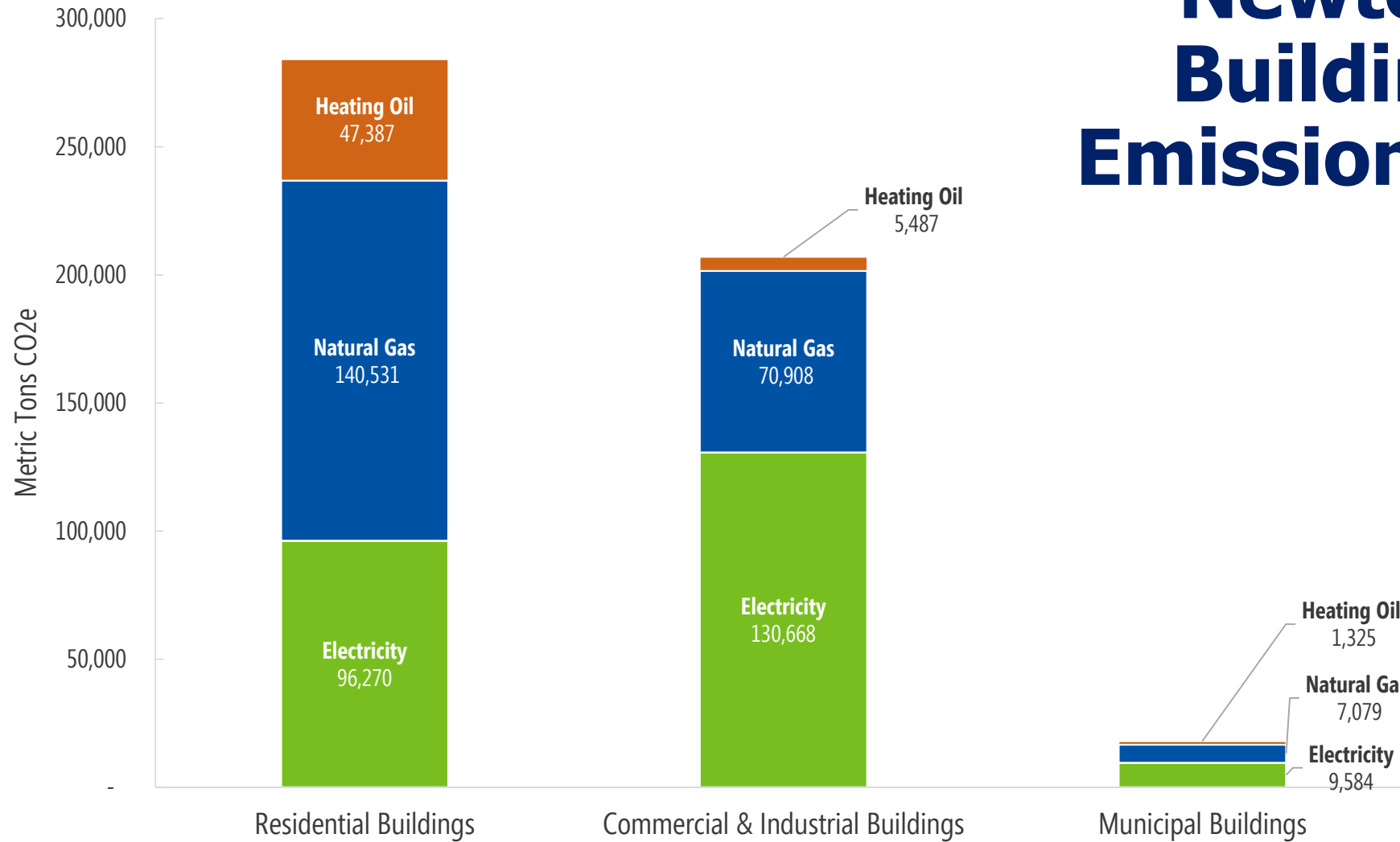
# Newton's 2013 GHG Inventory

**798,813** metric tons CO<sub>2</sub>e

\*Current inventory does not include GHG emissions from public transportation and all methods of waste disposal.



# Newton's 2013 Building Sector Emissions by Fuel Type



# Climate Initiatives in Newton

- **Newton Power Choice – 60% from local renewables!**
  - Municipal aggregation
  - More renewable power than standard utility
  - Fastest way to lower a municipality's greenhouse gas emissions
  - Customers can Opt-Up to 100%, Opt-Out, or Stick with the standard
- Climate Change Vulnerability Assessment
- Expanding solar development – 21% of municipal power
- EV Improvements – city fleet, new charging stations
- Bike Share – dock-less standard and electric
- Zoning Ordinance reform (on-going)
- Complete Streets Initiative and the Street Design Guide
- Gas Leak advocacy







# Climate Action Plan Development

# Local Climate Action Plan Analysis

Reviewed **11 municipal climate action plans** from cities across the nation and internationally.

Common findings across the frameworks used by the cities reviewed:

- Aggressive actions and accomplishments require significant **stakeholder involvement** and **partnerships with the private sector**.
- Actions are most often presented as **initiatives, policies, or programs**, and not as quantitative goals.
- Importance of addressing and accounting for other **benefits beyond GHG reductions** (workforce development, health and well being, etc.).

# Newton's Climate Action Plan: Bold, Actionable, & Living



Community-wide Greenhouse  
Gas Emissions Inventory



Quantitative and Qualitative  
Climate Goals & Objectives



Stakeholder Engagement



Action Plan (who & when?)



Monitoring, Evaluation, & Revision

- ✓ Annual updates to the Climate Action Plan
- ✓ Monitoring of key metrics related to progress
- ✓ Continued public communication & engagement

# Structure of Newton's Climate Action Plan

**PRIORITY AREAS:** These are the overarching themes for action that have risen to the top through research, engagement, and communication with City staff and leadership.

**OBJECTIVES:** These are strategic goals that support progress and will have impact related to the overarching priority areas identified.

**ACTIONS:** These are specific points of municipal leverage that support the implementation of each objective.



*Illustrative Example of Climate Action Plan Structure*

# Action Plan Development Process

We are here

Review of Local Climate Action Plans

Collection of input from the public

Additional research and investigation of best practices

Collection of input from Public Facilities Committee & City Staff

Develop complete action list

Gather additional public input on prioritizing actions

Collection of input from key implementers for actions identified

Prioritize with Mayor

# Prioritizing Climate Action

	<b>Feasibility</b> Has it been done?	<b>Impact</b> What sector(s) will the action impact?	<b>Cost to Implement</b> What resources are needed to support it?	<b>Implementer</b> Who is the appropriate actor for implementation?	<b>Other Impacts or Benefits</b> Who is impacted and how?
<b>energy efficiency &amp; net zero buildings</b>					
<b>clean energy supply</b>					
<b>zero emission mobility</b>					
<b>zero waste</b>					
<b>municipal climate leadership</b>					

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# Action & Prioritization Discussion

- What have we missed?
- What are your priorities?
- What are your concerns?



# Next Steps

All of tonight's **materials** and related information will be available at:  
**[www.newtonMA.gov/climate](http://www.newtonMA.gov/climate)**

**Questions**, please email:  
**[climateplanning@newtonMA.gov](mailto:climateplanning@newtonMA.gov)**