

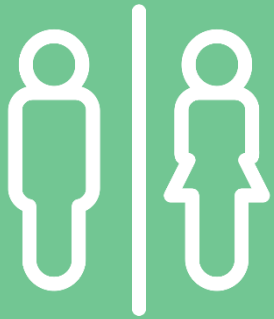
Newton Climate Action Plan Kick-Off Open Roundtable Discussion

Tuesday, October 23, 2018



Hosted by:
City of Newton
Metropolitan Area Planning Council

Housekeeping



Agenda

- 6:20 PM **Welcome** Jennifer Steel, City of Newton
- 6:25 PM **Opening Activity** Megan Aki, MAPC
- 6:45 PM **Newton's Climate Action Plan: Why, What, & How** Megan Aki, MAPC
- 6:55 PM **Action is Underway! Climate Efforts in Newton** Ann Berwick, City of Newton
- 7:00 PM **National & International Best Practices** Megan Aki, MAPC
- 7:10 PM **Table Discussions: Identifying Community Priorities for Action**
Facilitated by Newton Staff and Community Volunteers
- 8:00 PM **Report Out & Group Reflection**
- 8:20 PM **Closing Remarks** Mayor Ruthanne Fuller, City of Newton
- 8:25 PM **Wrap Up & Next Steps** Claire Rundelli, City of Newton

Tonight's Goals

Build awareness of the City's Climate Action Plan process and establish a shared understanding of work that is underway.

Understand the values and priorities the community would like to see reflected in the City's Climate Action Plan.

Gather feedback on existing ideas and **generate new ideas** on factors to prioritize and guide the City's future climate actions.

Ice Breaker!



Newton's Climate Action Plan

Why, How, & What?

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.

Cities and Towns are Still In!

WE ARE **3,591** LEADERS STRONG

REPRESENTING

169.0 MILLION

 PEOPLE

ACROSS

50



STATES

TOTALING \$\$\$

9.46 TRILLION

\$\$\$ \$ IN GDP

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

**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

TBD, January 2019

Final Public
Workshop

October 2 – November 16

Community input via on-line questionnaire

CAP
Plan Completion
February 2019

What is a Climate Action Plan?



Community-wide Greenhouse
Gas Emissions Inventory



Quantitative and
Qualitative Climate Goals



Stakeholder Engagement



Objectives & Strategies/Actions



Implementation Plan
(who & when?)



Evaluation and Monitoring

Newton's Climate Action Plan

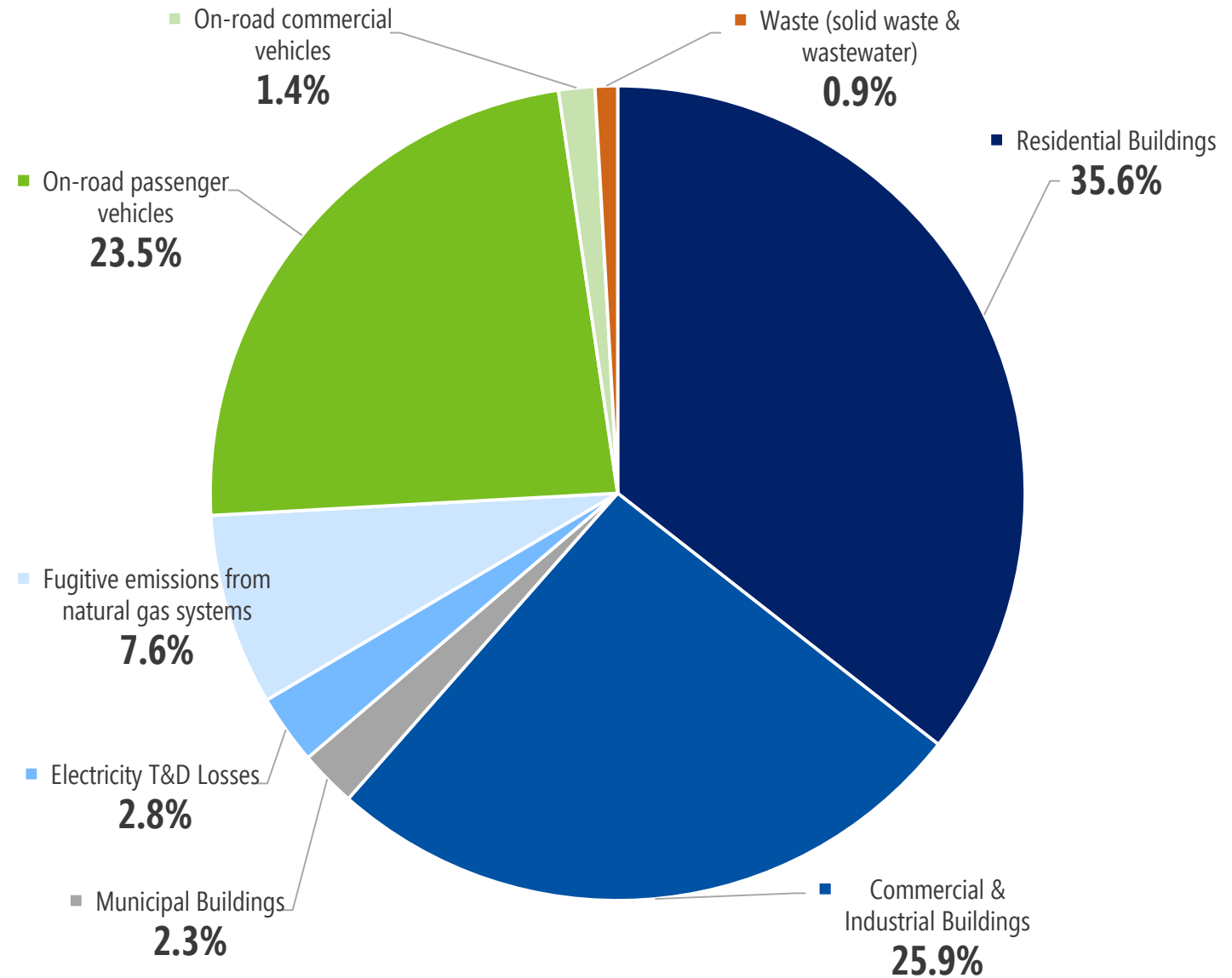
Reduce **greenhouse gas emissions** across all sectors in Newton



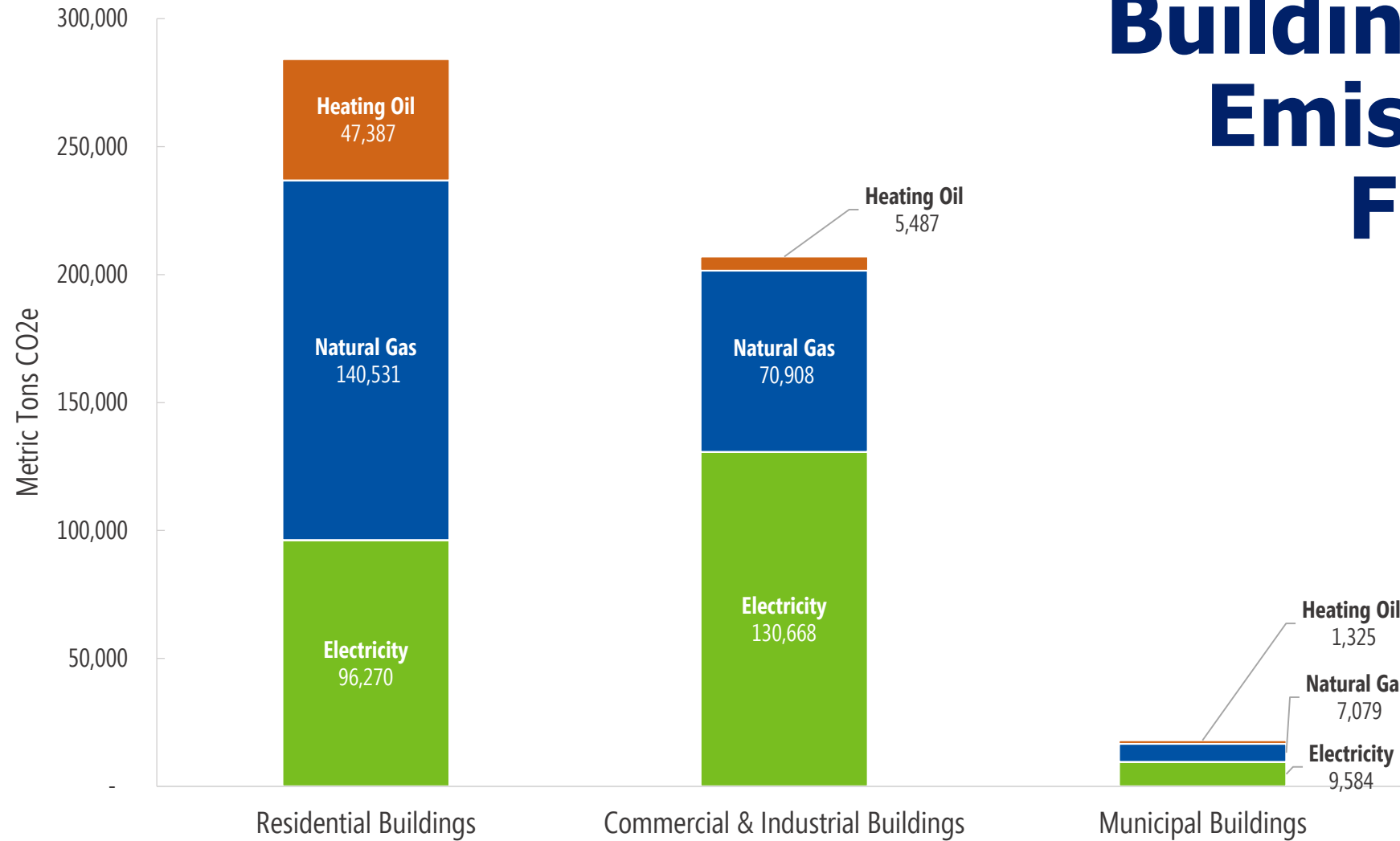
Newton's 2013 GHG Inventory

798,813 metric tons CO₂e

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



Building Sector Emissions by Fuel Type





Action is Underway!

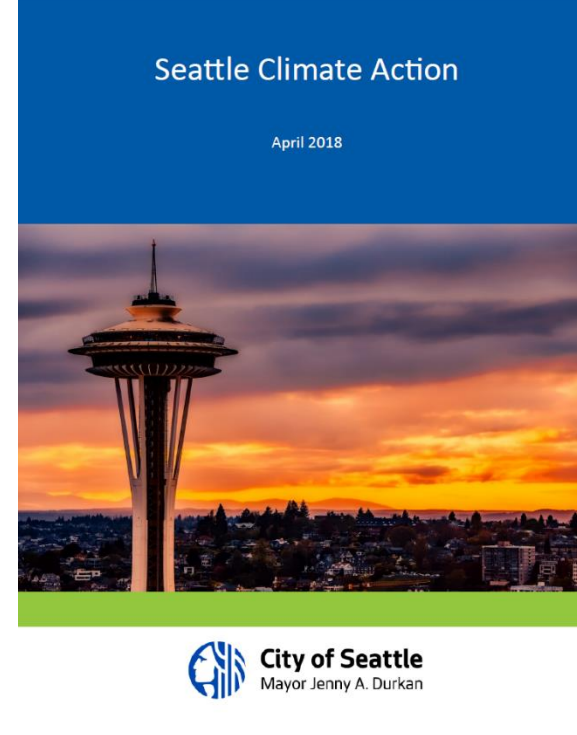
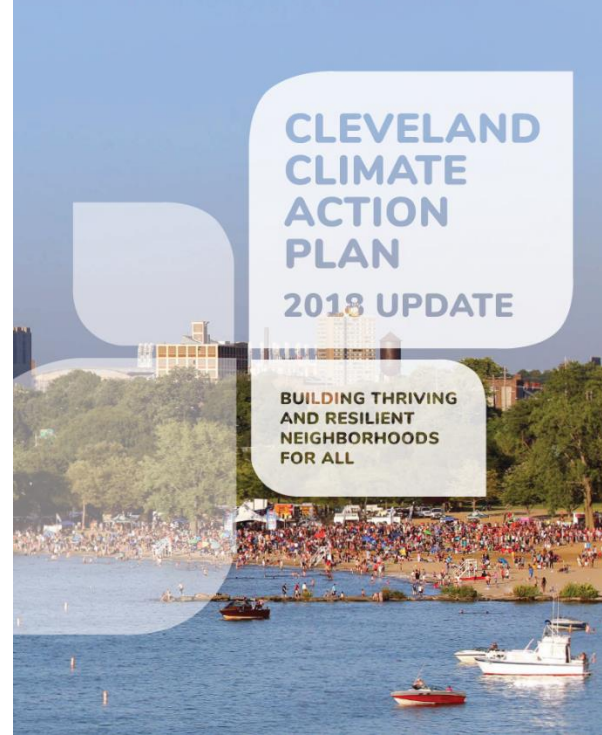
Climate Efforts in Newton

City of Newton [Climate Action Plan](#)

Climate Initiatives in Newton

- **Newton Power Choice**
 - Municipal aggregation
 - More renewable power than standard utility (Eversource at ~12%)
 - 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**
 - *Workshop on October 29th! Sign up at the check-in table*
- 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





National & International Best Practices

Local Climate Action Plan Analysis

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.).

Defining Local Climate Goals

Organization	Term	Definition
Department of Energy	Zero Energy Building (ZEB)	Produces enough renewable energy to meet its own annual energy consumption requirements, thereby reducing the use of non-renewable energy in the building sector
Mass Power Forward	Net Zero Municipality	Produces zero net carbon pollution; community gets as much electricity from renewable sources as it uses Achieved through a combination of energy efficiency improvements, local clean energy production, and purchasing renewable energy
Cambridge Net Zero Taskforce	Net Zero	Refers to a building or a community of buildings for which, on an annual basis, all greenhouse gas emissions resulting from building operations are offset by carbon-free energy production
World Future Council	100% Renewable Energy (100% RE)	All energy needed within the electricity, heat, and transport sector in a particular region is coming from renewable sources
United Nations	Carbon Neutral	Climate-damaging emissions are reduced where possible and the remaining emissions are netted out through the purchase of carbon offsets

Example Climate Goals & Commitments

City	By Year
Seattle, WA	Carbon Neutral by 2050
Cleveland, OH	80% below 2010 emissions by 2050, with interim goals of 16% reduction by 2020 and 40% reduction by 2030.
New York City, NY	80% by 2050, Carbon Neutral by 2050
Metro Mayors Coalition, MAPC Boston, MA Cambridge, MA Somerville, MA	Net Zero/Carbon-Free Region by 2050 Carbon-free by 2050 80% by 2050, Net zero annual emissions for buildings citywide by 2040 Carbon Neutral by 2050
Lexington, MA	80% by 2050, 25-year net zero plan in process
Vancouver, Canada	80% before 2050, Greenest City by 2020

Cambridge, MA

Cambridge Net Zero Action Plan



Source: City of Cambridge (excerpt)

- Created an **adaptable** Net Zero process and plan
- Established a **process for tracking** the City's progress
- Aligning with existing and future plans

Year: 2015
Goal: 80% by 2050, Net zero annual emissions for buildings citywide by 2040

New York, NY

Considered associated benefits for:

- Growth
- Equity
- Sustainability
- Resiliency

Also examined:

- Scale of GHG impact
- Financial feasibility

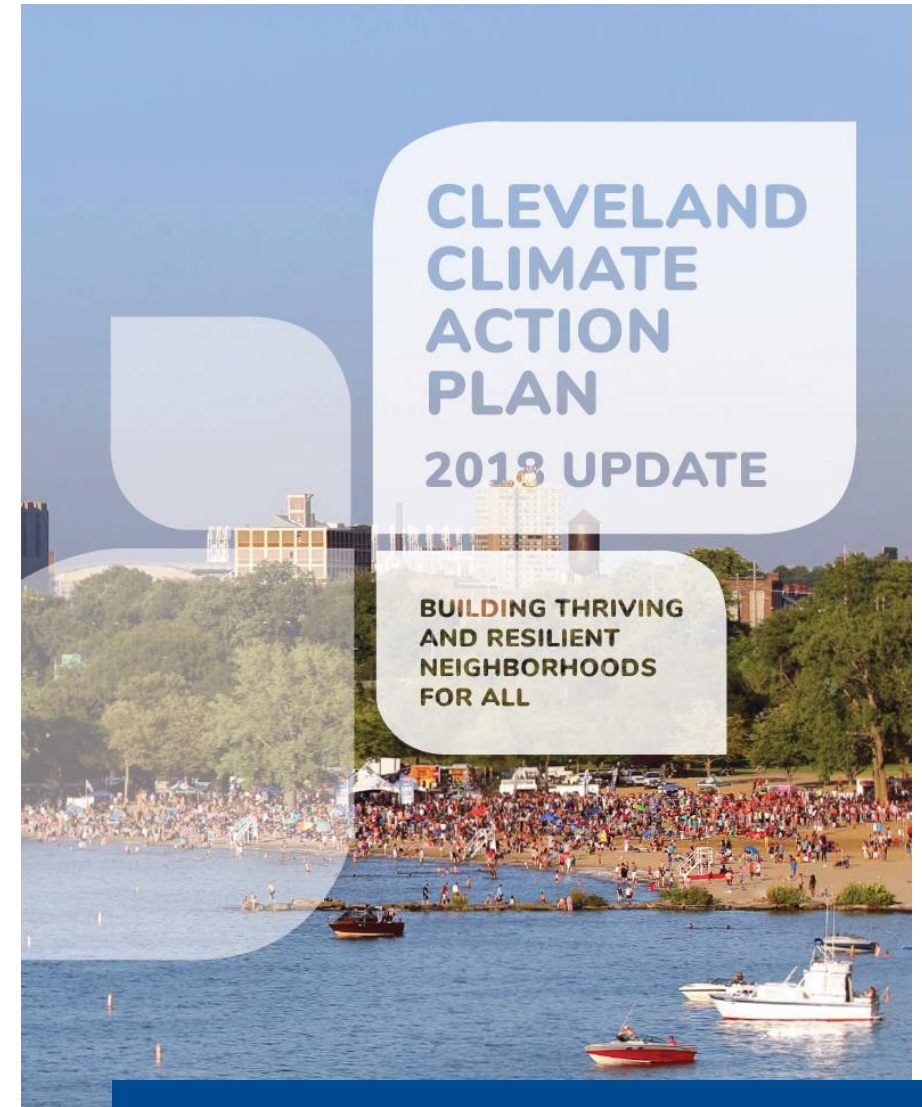


Year: 2017

Goal: Carbon neutral by 2050

Cleveland, OH

- **Focus Areas** with objectives and actions
- **Cross Cutting Priorities:** Social and Racial Equity, Good Jobs, Green Jobs, Climate Resilience, Business Leadership
- **Implementers** and **indicators** for each objective and action

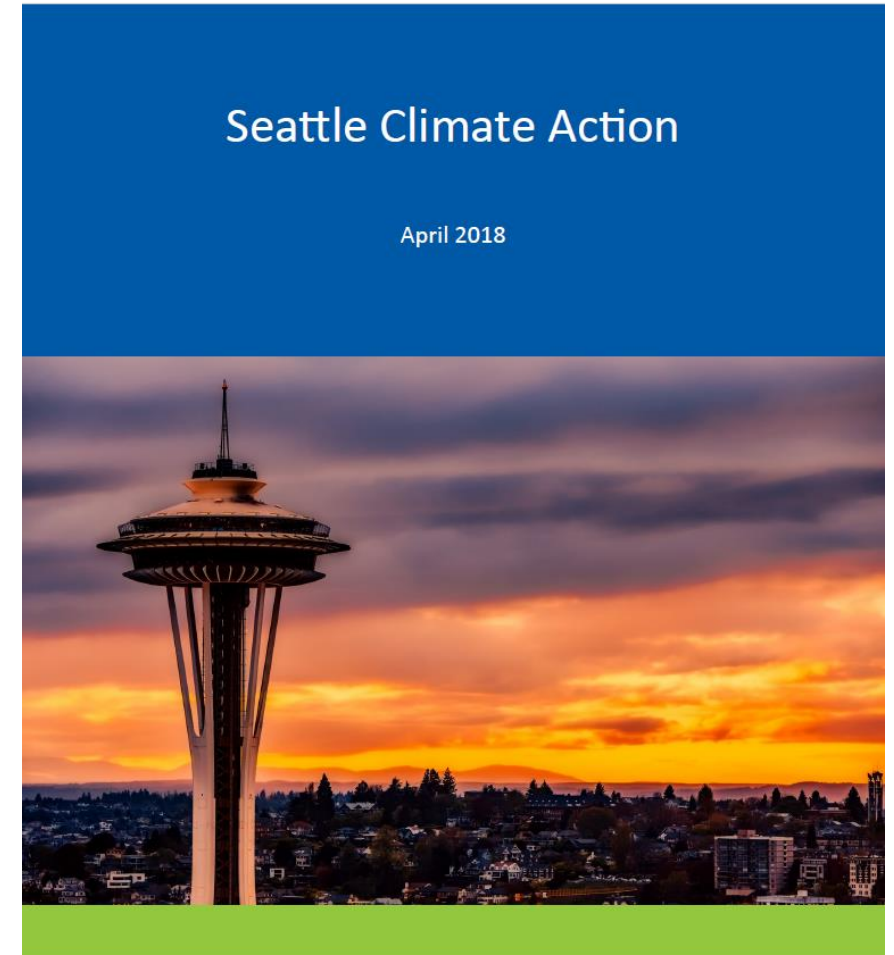


Year: 2018

Goal: 80% below 2010 emissions by 2050

Seattle, WA

- Outlines **near-term** climate action priorities within the City's authority to implement
- Provides emissions reductions potential for each action



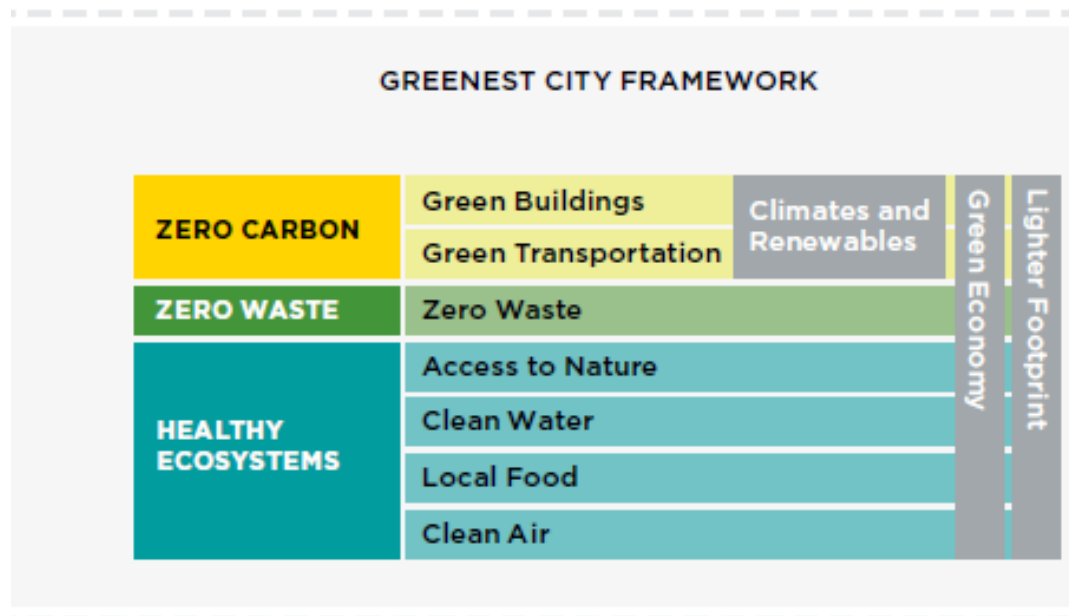
City of Seattle
Mayor Jenny A. Durkan

Year: 2018

Goal: Carbon neutral by 2050

Vancouver, Canada

- Aligns with **economic** and **public health** plans for the City
- Sets up a framework to achieve zero carbon, zero waste, and health ecosystems
- Establishes goals with targets, indicators, and 5-year priority actions



Time to hear from you!

Table Discussions

40 minutes

Quick **introductions & instructions** with your table facilitator

Which **sector** or **specific climate action** would you like to see the City should prioritize?

Please **explain why this is a priority** to you.

Discuss and decide as a group which **three priorities** to report back to the full group.

Report Back & Group Reflection

2-3 minutes per table

Which three priorities and 'why' reasons discussed by your group would like to share?

Closing Remarks

Mayor Ruthanne Fuller

Wrap Up & Next Steps

All of tonight's **materials** and related information are available at:
www.newtonMA.gov/climate

Submit your **ideas** via the online questionnaire by **November 16, 2018** (print forms available tonight):
www.surveymonkey.com/r/NewtonCAP

Questions, please email:
climateplanning@newtonMA.gov

Please join us for a **workshop on Newton's Climate Vulnerability and Resiliency**
October 29, 2018, 5:30-9:00, Barry Price Center, 25-27 Christina St.