



Climate Action & Sustainability Plan



Community Workshop

December 12th, 2022



Weston & SampsonSM



Project Team



JOYCE LOSICK-YANG
Sustainability Director

STEERING COMMITTEE

JACQUELINE SALIT

JOHN UNGER

KATE MARGOLESE

DENNIS RICHARDS

MARY PRITCHARD

CANDY DANN

MARK SPENCER



JOHANNA HALL
Team Leader

ROBIN SIEDEL
Project Manager

CASSIDY YATES
Sustainability Engineer

SAM ALPERT
Energy Specialist



Land Acknowledgment

We open by respectfully **acknowledging that we collectively gather** on the **territory of many Indigenous peoples**, who have **stewarded this land** for hundreds of generations.

With gratitude to the Andover Center for History & Culture for their guidance, we acknowledge the **harmful effect** colonization and violent **systemic and cultural inequities** have had on our understanding of Indigenous identity and terminology.

Andover was home to the **Pennacook people** as early as 6000 BCE, and we honor their past, present, and emerging leaders.

Logistics



mute



use reactions



answer polls



ask questions



we're using slido!

Share Your Thoughts

Please use **slido** to provide feedback

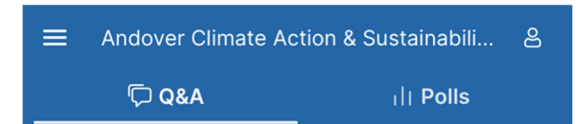
Scan the
QR code




If unfamiliar with QR codes:

1. Type in slido.com in a web browser on phone or computer
2. Enter code: **#AndoverClimateAction**

Joining as a participant?  

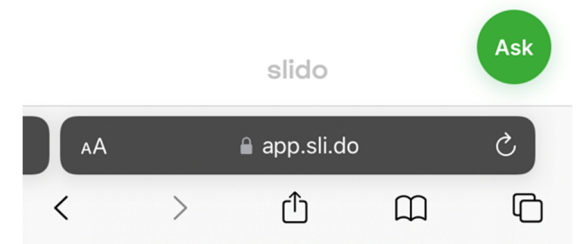


 Type your question



There are no questions asked yet.

Ask the first one!



Select all that apply:

0 3 5

I live in Andover



I work in Andover



I'm an Andover business owner



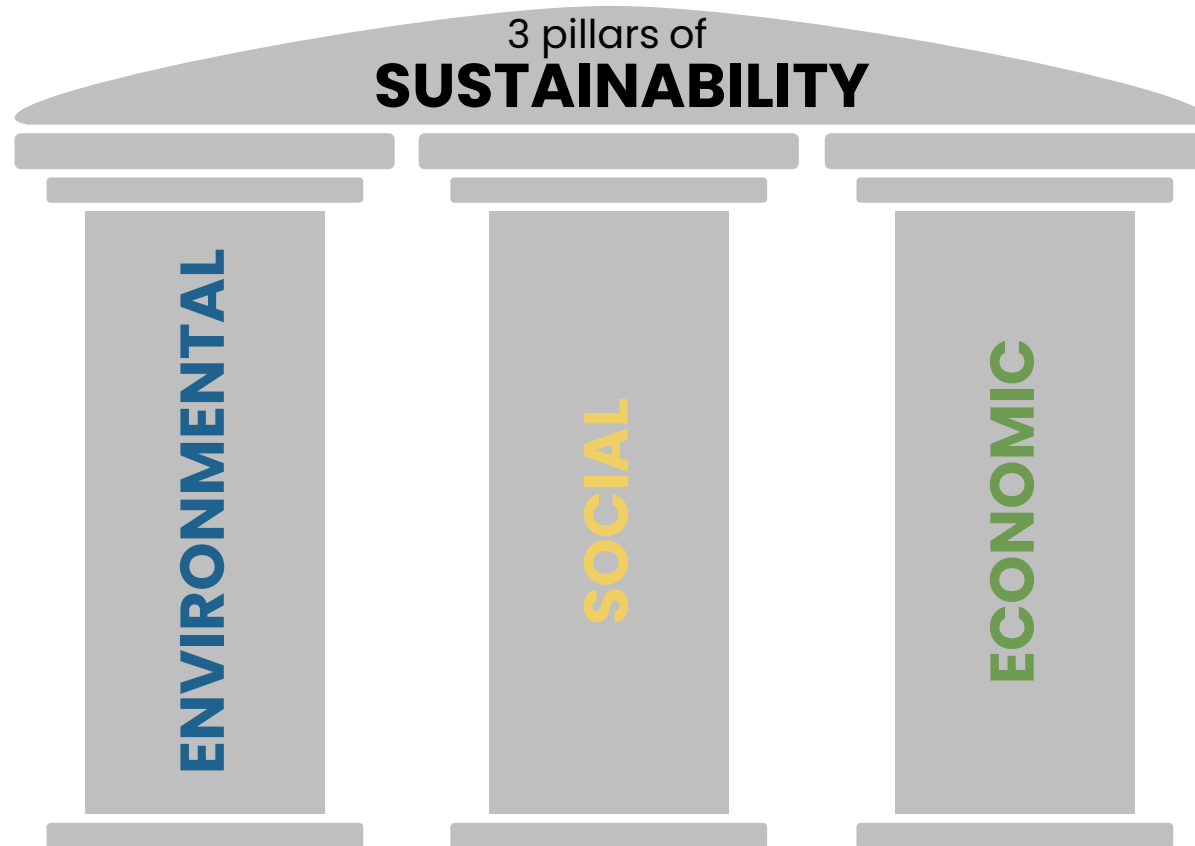
I live elsewhere but work in Andover



Other



Climate 101



Climate 101



Adaptation

Adapting to life in a changing climate – involves adjusting to actual or expected future climate



Mitigation

Reducing climate change – involves reducing the flow of heat-trapping greenhouse gases into the atmosphere



Vulnerability

The degree to which a system is susceptible to adverse effects of climate change, including climate variability and extremes. Vulnerability is a function of exposure, sensitivity, and adaptive capacity



Resilience

The ability of a system and its component parts to anticipate, absorb, accommodate, or recover from the effects of a hazardous event in a timely and efficient manner

Greenhouse Gas Emissions

Greenhouse Gases:

- Carbon dioxide
- Methane
- Nitrous oxide
- Fluorinated gases

Sources: Residential, commercial, & industrial



Andover's Emissions

In 2017, our town was responsible for emitting:

453,779

METRIC TONS OF CO₂e

Types of emissions:



Stationary emissions



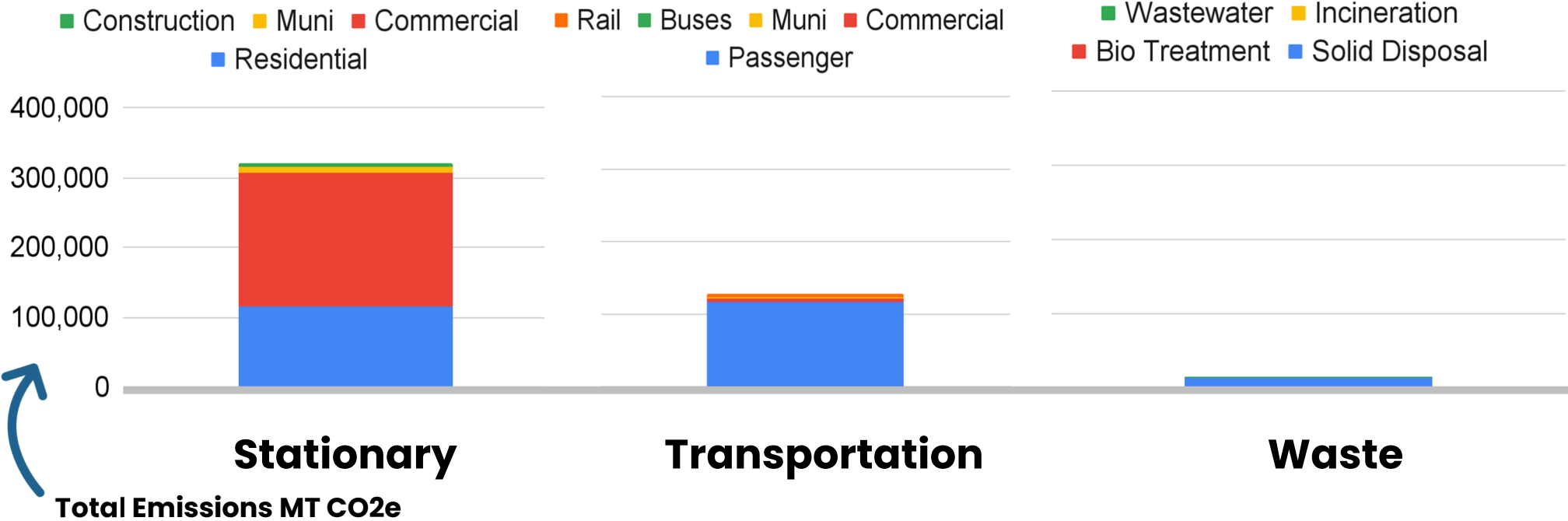
Waste emissions



Transportation emissions

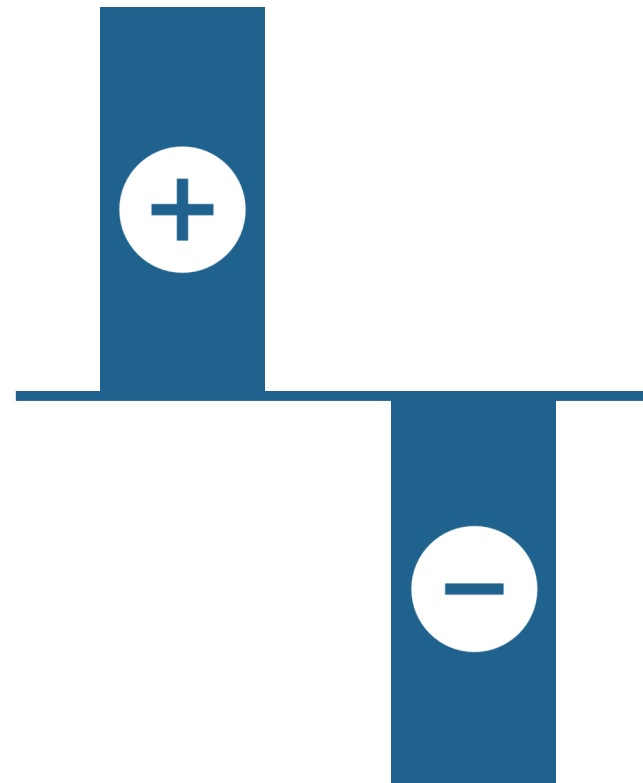
We Learned...

Focus Areas: Commercial & residential buildings Residential transportation



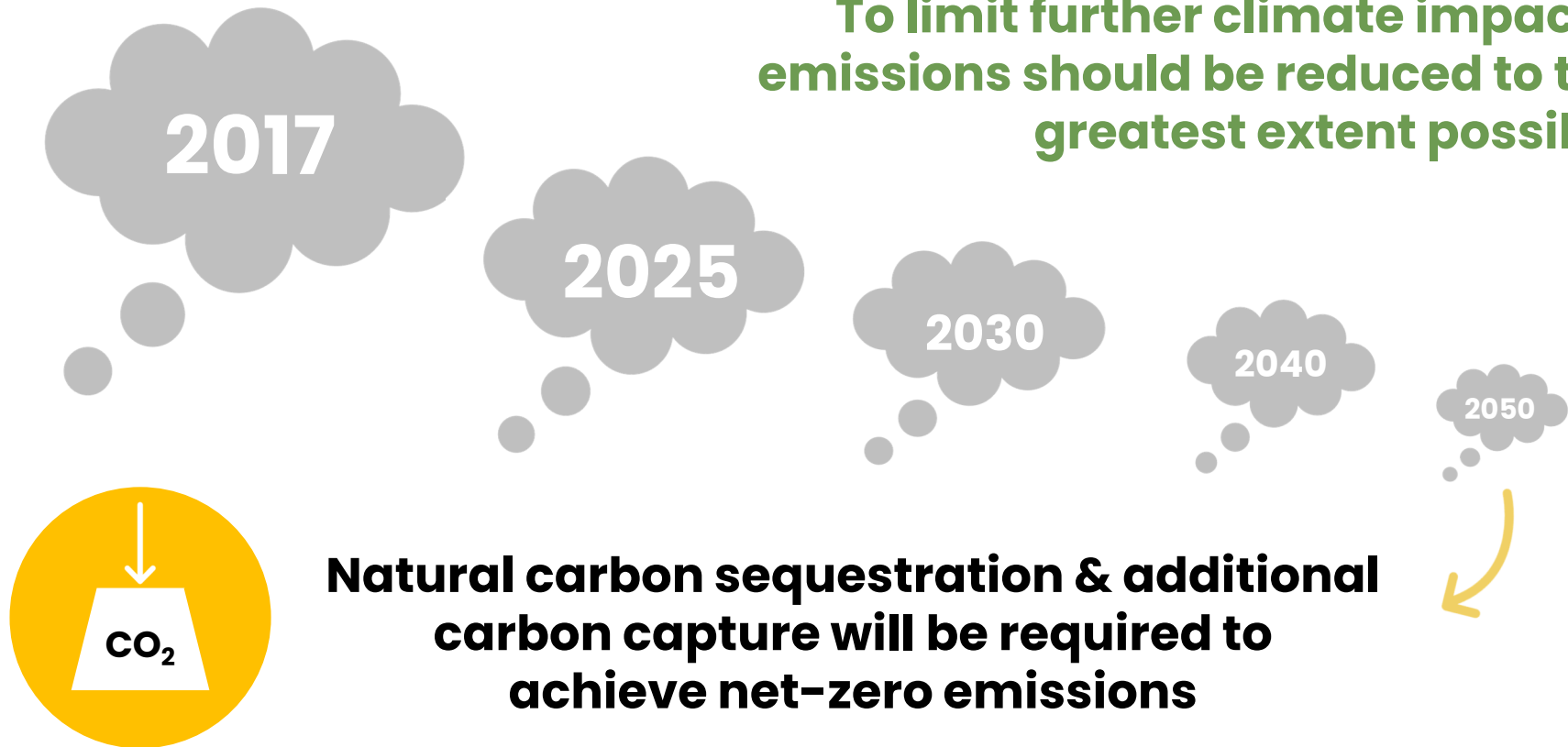
What is Net Zero?

Remaining **emissions produced equal emissions removed** resulting in net-zero emissions



What is Net Zero?

To limit further climate impacts, emissions should be reduced to the greatest extent possible

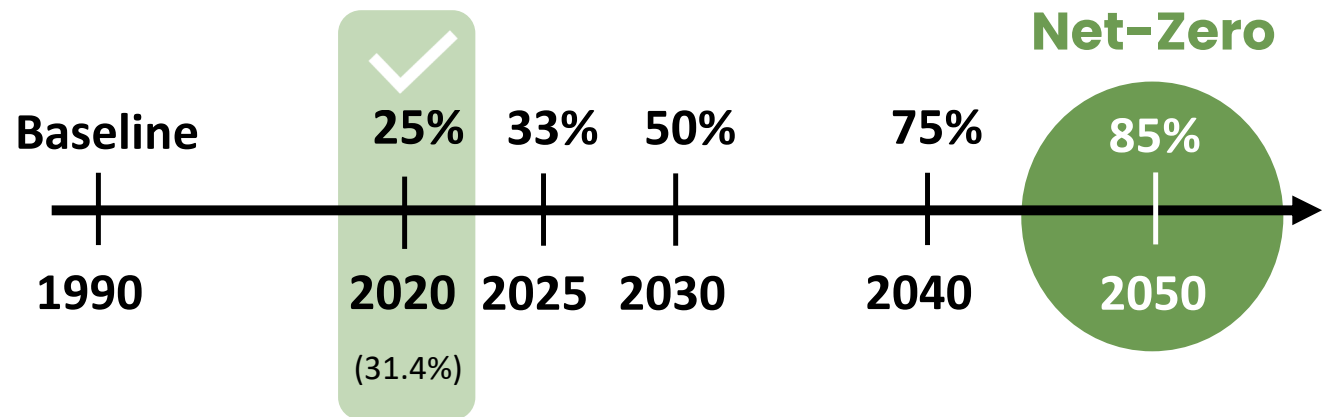




Statewide Action

**Emissions
Reduction Goals**

Legislation



An Act Creating A Next-Generation Roadmap for Massachusetts Climate Policy requiring interim emissions limit and sector-specific sublimits every 5 years

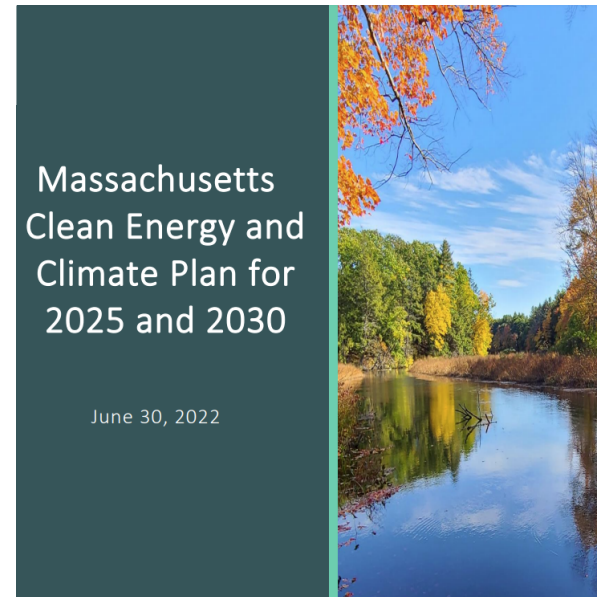


Statewide Action

Clean Energy & Climate Plan

Identifies strategies and policies to achieve sector-specific GHG emissions sublimits for:

- Transportation
- Buildings
- Electricity generation
- Industrial emissions
- etc.

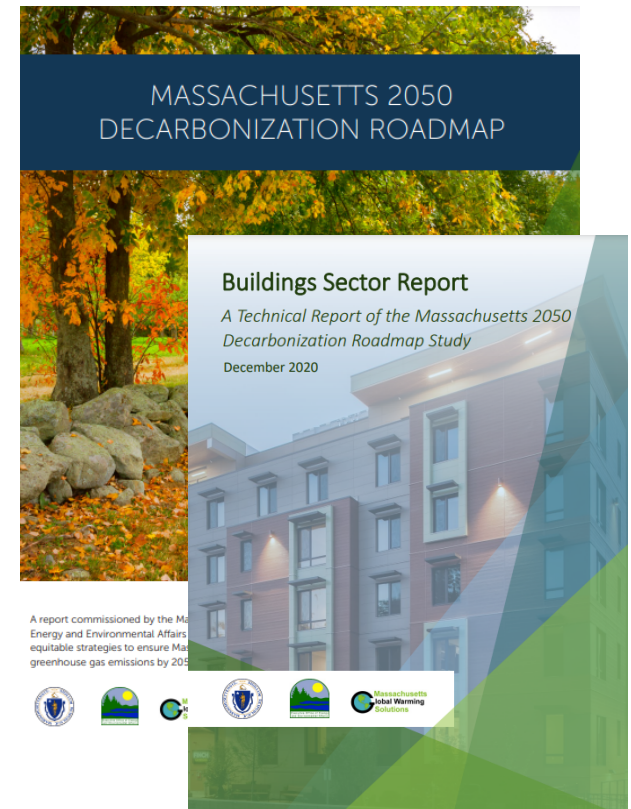




Statewide Action

Decarbonization Roadmap

Outlines pathways to the Commonwealth's net zero goals with a focus on buildings & energy systems



Where Andover Differs

**Andover need's
its own pathway**

Different challenges and opportunities, compared to state as a whole & other towns



Examples:

Land area for protection

Industrial sector

Community groups

Which of the State's Clean Energy and Climate Goals should Andover adopt (choose 1)?

0 3 4

All interim and final goals (50% by 2030, 75% by 2040 and net-zero by 2050)



Only adopt the 75% by 2040 and net-zero by 2050 goal

3 %

Only adopt the final net-zero by 2050 goal

0 %

Andover's Progress

**Green Community
Designation**



GHG Inventory



**Sustainability
Resolution (Draft)**



Decarbonization Plans



Climate Summit

Andover's Progress

**Green Community
Designation**



GHG Inventory



**Sustainability
Resolution (Draft)**



Decarbonization Plans



Climate Summit



What are Andover's weaknesses when it comes to climate action?

035



Andover's Progress



Climate Action & Sustainability Plan



SUSTAINABLE ANDOVER

Climate Action & Sustainability Plan Contents

40+ HIGH-IMPACT ACTIONS TO:

Reduce carbon emissions
Improve climate resiliency
Enhance inclusion and equity

IMPLEMENTATION PLANS IDENTIFYING:

Action leaders
Co-benefits
Equity considerations
Timelines

Where should the Plan put more emphasis on (choose 1)?

032

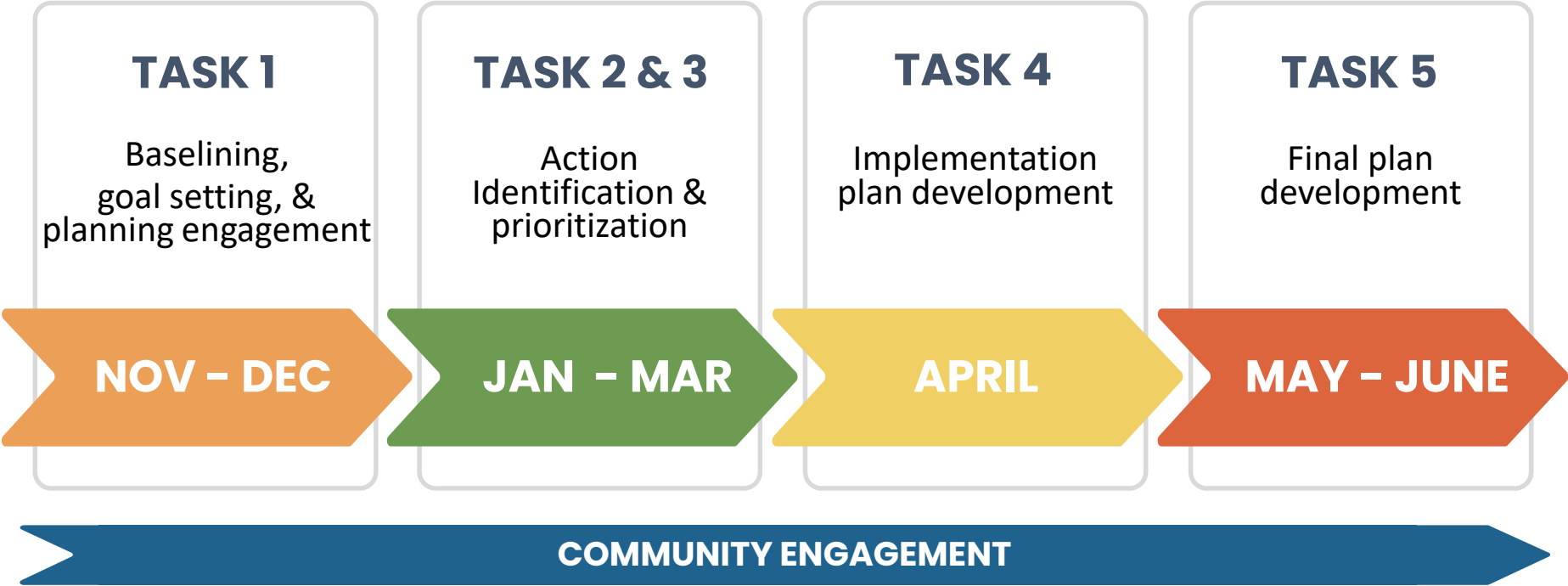
More actions, less implementation (breadth)



Less actions, more implementation (depth)



Timeline



Plan Development

**TOWN &
STEERING
COMMITTEE**



**COMMUNITY
PARTERS**

CLIMATE EXPERTS

Community Partners



Are you involved with any of the following groups? Select all that apply:

0 2 6

WECAN



Green Advisory Board



Schools



Faith Groups



Non-Profits



Andover Businesses



Are there any additional groups or individuals that you recommend we engage during this project?

(1/3)

0 2 7

- Act
- Medical professionals
- Cormier
- Phillips Academy
- Playing field tenants
- Psychological and behavioral health professionals
- Renters and public housing residence
- Downtown Business Association
- Chamber of Commerce
- History cwnter
- PTOs
- Mbta
- industry = most important
- local food access orgs
- Select board
- DPW
- Schneider Electric
- Bus drivers
- Andover Townsman
- Major industries...Victor, etc
- Owners of businesses and industries with a presence here but owned elsewhere
- Youts

Are there any additional groups or individuals that you recommend we engage during this project? (2/3)

0 2 7

- seniors
- variety of ethnic groups
- Landscapers
- Artists
- YMCA
- Schneider electric
- Conservation commission
- Architects
- orgs that represent underserved community members
- Indigenous knowledge representatives
- AHS ESIC student interns
- Andover Trails
- Contractors
- Raytheon
- Andover Trails / Shawsheen Greenway
- students
- Vets
- Memorial Circle residents
- Greater Andover indivisible
- Builders/developers
- Pfizer,
- AVIS
- Service clubs including rotary, Kiwanis. YMCA

Are there any additional groups or individuals that you recommend we engage during this project?
(3/3)

0 2 7

- ABC
- Senior center?
- Avis
- Middle school students
- Heat Smart Alliance
- DEI commission
- AVIS
- Labor unions
- Harry Vorhees
- Chamber of Commerce
- Merrimack Valley Chamber of Commerce
- AVIS
- Realtors
- Rotary
- Students
- Walk Bike Andover

This is Your Plan



Engagement Target: Reach 1000 people!

How would you like to be engaged (select all that applies)?

(1/2)

0 3 4

Public meetings (50+ people)



65 %

Smaller targeted groups (committees, boards, clubs, neighborhood or faith groups, etc)



79 %

Serving on working groups for the Climate Action and Sustainability Plan



53 %

1:1 interviews (either as interviewer or interviewee)



32 %

Opinion surveys



50 %

How would you like to be engaged (select all that applies)?

(2/2)

0 3 4

Review final drafts of documents



If you chose working groups or interviews above, how long might you be willing to give of your personal time to this effort?

2+ hours per week



30 minutes every other week



30 minutes per month



30 minutes total from now until when the Plan is released



This is Your Plan



- 1. Attend public meetings**
- 2. Talk with friends & neighbors**
- 3. Take the survey**
- 4. Youth logo contest**

The Town would like to offer a web-based Sustainability Dashboard to report on progress being made. Which of the following would you most like to see (choose 7)?

0 3 3

(1/2)

Total kW or MW capacity of solar installed



Number of Plug-in Hybrid or fully Battery Electric Vehicles registered to 01810



Number of heat pumps installed



Number of acres of protected land and estimated carbon sequestered



Total municipal energy consumption



The Town would like to offer a web-based Sustainability Dashboard to report on progress being made. Which of the following would you most like to see (choose 7)?

0 3 3

(2/2)

Total residential energy consumption



Total commercial and industrial energy consumption



Number of LEED certified buildings



Number of public green infrastructure projects



Miles of sidewalks and bike share roads





Questions or Comments?

Thank you for attending & participating!



Weston & SampsonSM



**Additional questions &
comments can be emailed to:**



Joyce Losick-Yang
joyce.losickyang@andoverma.us



Cassidy Yates, Weston & Sampson
yates.cassidy@wseinc.com

Resources for State Goals:



The following link is the homepage for the Massachusetts Clean Energy and Climate Plan for 2025 and 2030, and includes:

- Clean Energy and Climate Plan for 2025 and 2030
- 2025 and 2030 Emissions Limits and Sublimits
- Statement of Compliance with 2020 Greenhouse Gas Emissions Limit
- Additional resources

<https://www.mass.gov/info-details/massachusetts-clean-energy-and-climate-plan-for-2025-and-2030>