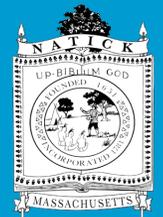




# Natick's Net Zero Action Plan

JANUARY 2021





**2004**

Natick joins ICLEI Local Governments for Sustainability, which required the Town to establish a baseline greenhouse gas emissions inventory for school and municipal operations and set reduction goals.

**2010**

Natick is designated as a founding Green Community by the MA Department of Energy Resources. Over the next decade, Natick will receive more than \$1.5 million in grants to support energy efficiency projects from this program.



**2014**

Natick achieves a 20% reduction in energy use from school and municipal operations. The Town also becomes the first MetroWest community to hire a Sustainability Coordinator.

**2017**

Natick passes a Solar Bylaw and is designated as a SolSmart Gold community, the highest SolSmart designation offered by the SolSmart Foundation and the U.S. Department of Energy. Natick also begins sourcing more renewable energy to support its electricity aggregation program.

**2019**

Natick works with the Metropolitan Area Planning Council (MAPC) and the communities of Arlington and Melrose to develop a publicly available, community-wide GHG inventory tool and completes its first community-wide GHG inventory.

**2020**

The Natick Sustainability Committee partners with community members to draft its first net zero action plan, with the goal of finalizing the plan in 2021.

Natick establishes a staff-led Energy Task Force, focused on implementing energy efficiency measures such as lighting retrofits, in school and municipal buildings.

**2007**

Natick becomes one of the first MA municipalities to install solar on public buildings, including Natick High School, Kennedy Middle School, Wilson Middle School, Bennett-Hemenway Elementary, Memorial Elementary and the Community Senior Center. In future years, solar is added to the Department of Public Works, the Chase Arena, Lilja Elementary School and West Natick Fire Station.

**2012**



Natick adds its first electric car to the municipal fleet and begins installing public electric vehicle charging stations.

**2015**

Natick runs the state's most successful Solarize Mass campaign as measured in terms of capacity. The program adds more than one megawatt of new solar, across 156 properties in the community.

**2016**



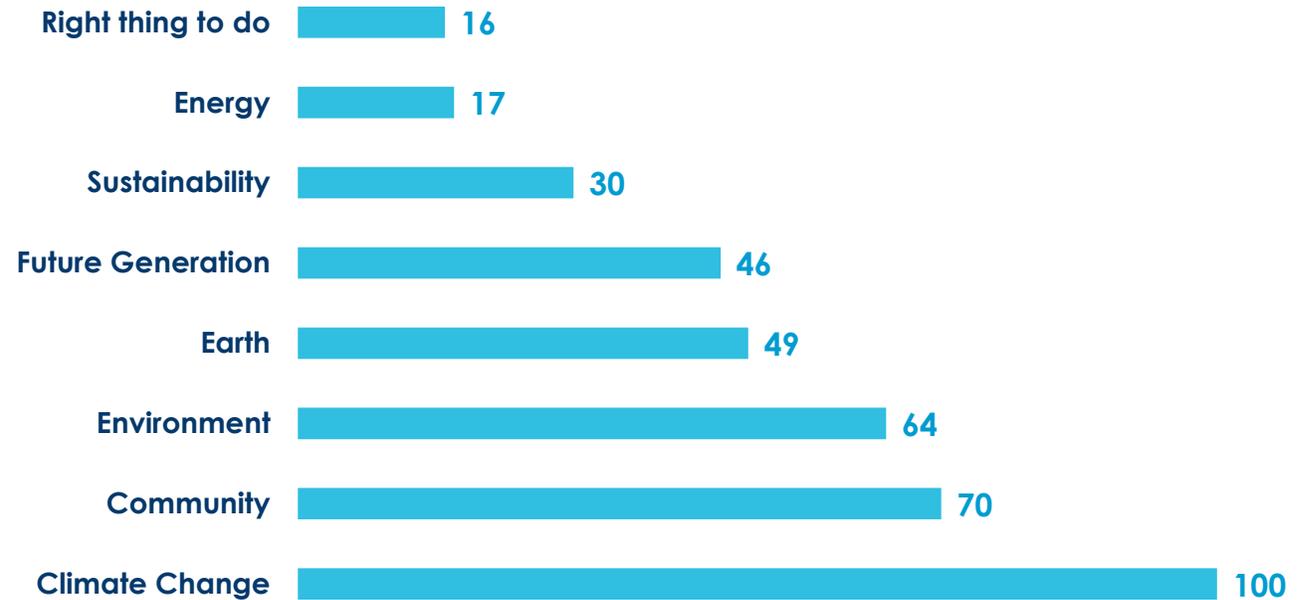
Natick Fall Town Meeting passes a non-binding resolution to adopt a goal to achieve net zero greenhouse gas emissions by 2050 and receives a grant from the MA Executive Office of Energy and Environmental Affairs to develop a net zero plan. The Town also becomes a founding member of the Municipal Vulnerability Preparedness Program.

**2018**



# Developing This Plan

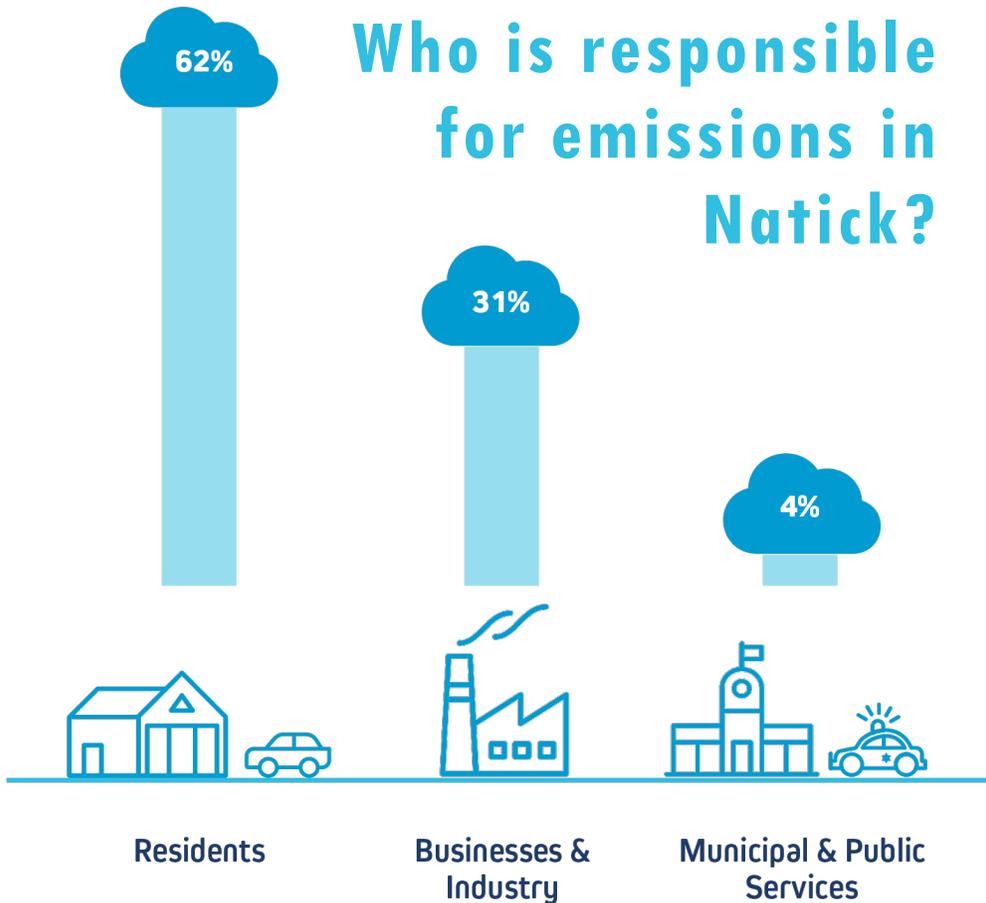
- Partnership with the Metropolitan Area Planning Council, Arlington, and Melrose
- Sustainability Committee leadership
- Collaboration with other committees
- Net zero heroes
- Community input survey
- Virtual Earth Day
- Focus group with Town leaders
- Online Open House
- Newsletter to 3,000+ residents



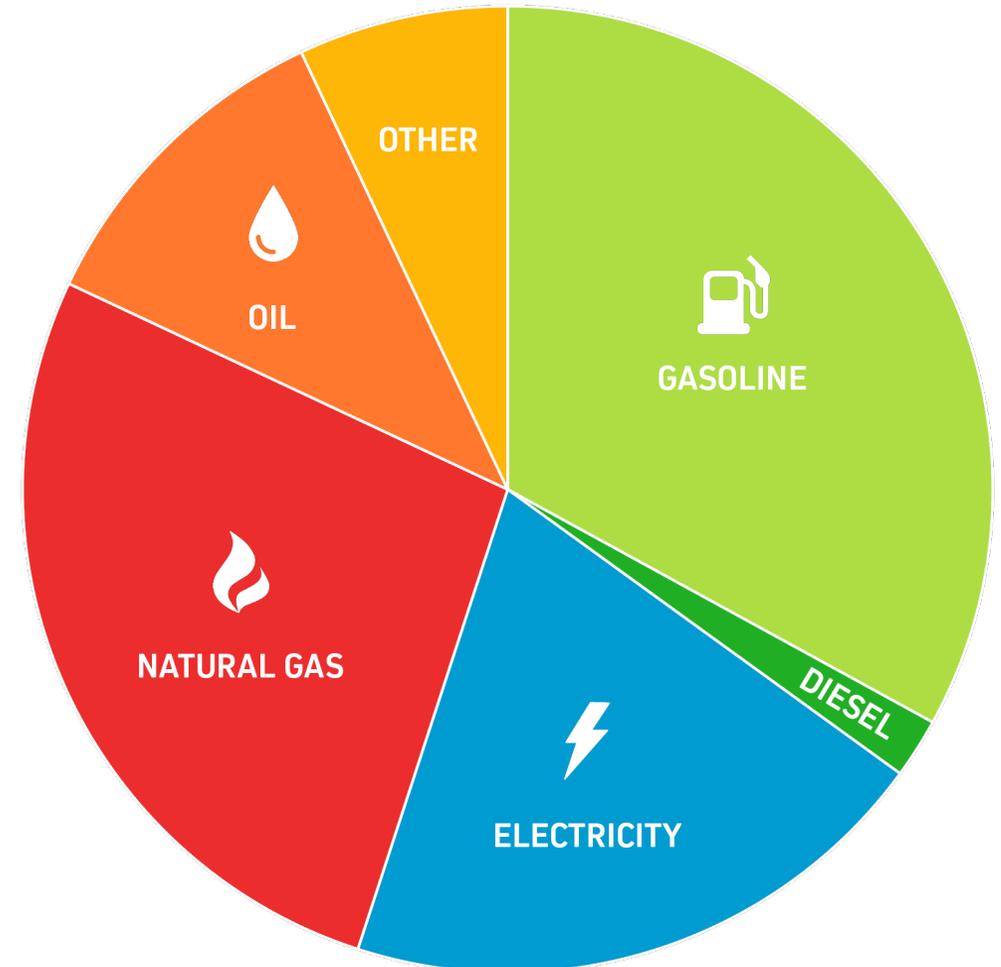
SOURCE: NATICK'S 2020 COMMUNITY INPUT SURVEY, CONTENT ANALYSIS OF "WHY ARE YOU INTERESTED IN NATICK'S NET ZERO PLAN?" RESPONSE THEMES

# Greenhouse Gas Emissions in Natick

## Who is responsible for emissions in Natick?



## Which fuels generated the most emissions in Natick?

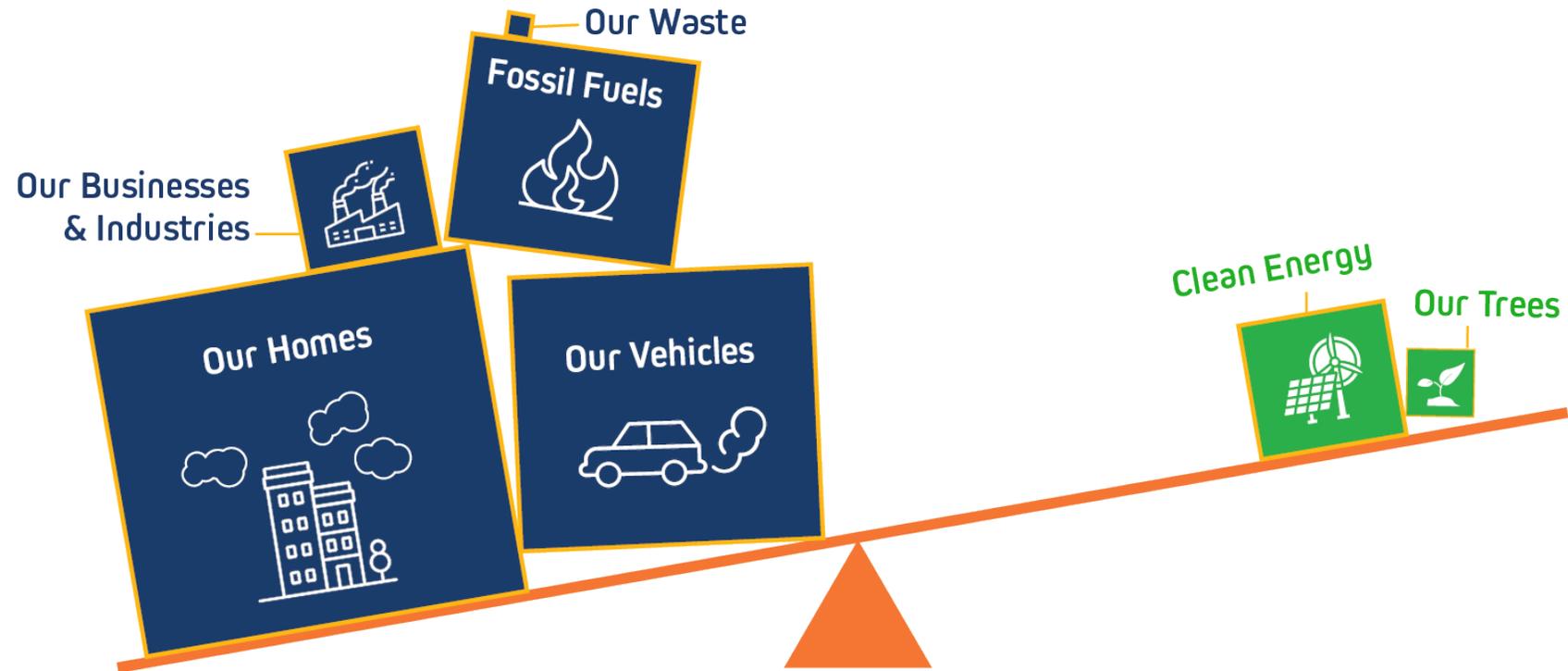


# Getting to Net Zero

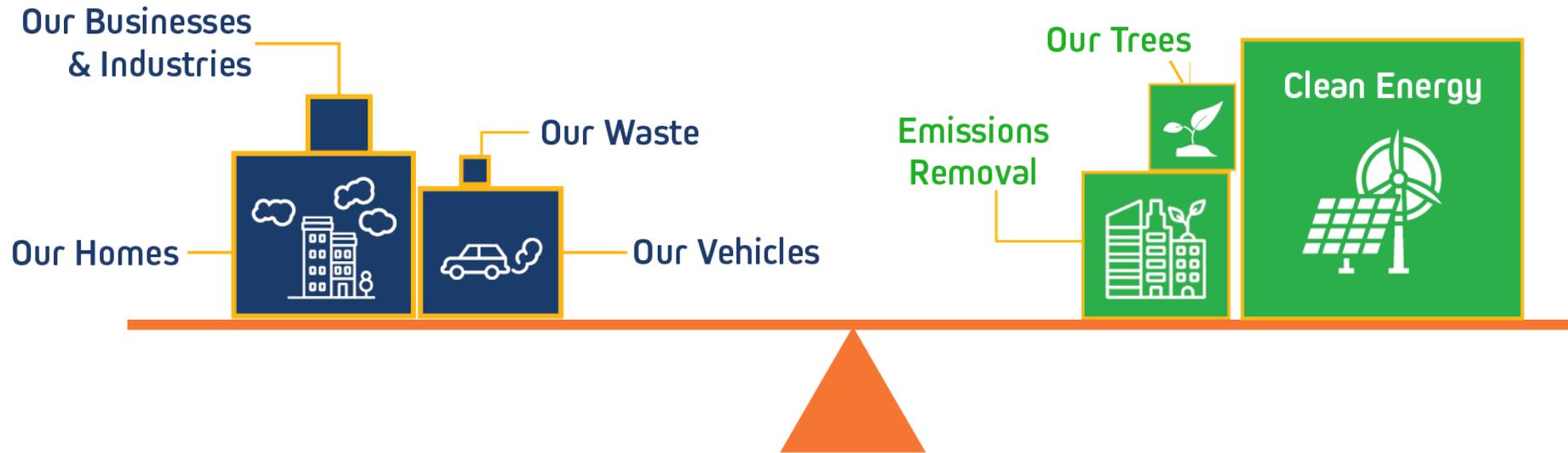
What does it mean and how do we get there



# From this...



# ...to this!



# Getting to Net Zero Equitably

As we develop, and then implement, the plan, we will consider:

**Who has been historically impacted in our community?**

Both by the change this measure aims to mitigate, and by previous solutions.

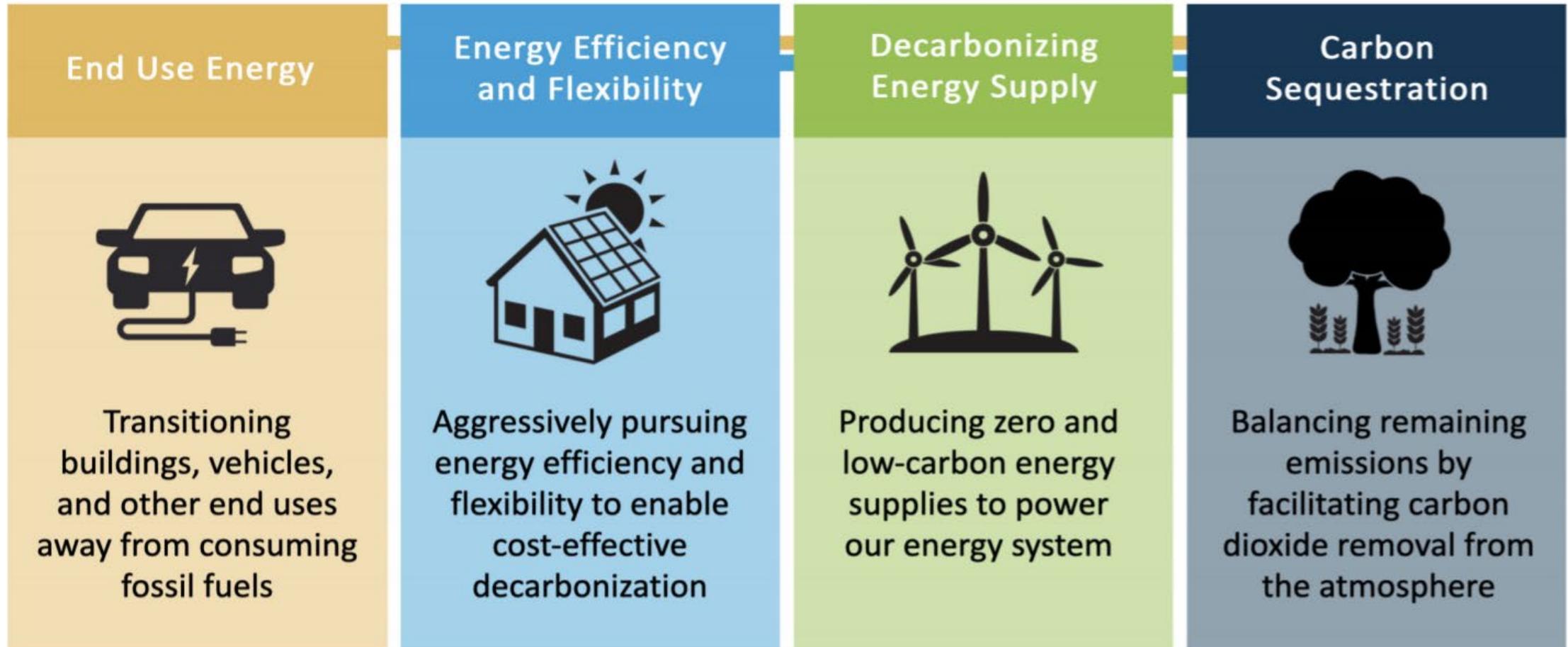
**Who would be most impacted in the types of changes in our climate we expect to see?**

Which populations are most vulnerable to the change? Who is least likely to be able to enact this solution without action?

**How will the co-benefits of this plan and each action be distributed?**

Where will assets be located?  
Where will health benefits be realized?

# How is Massachusetts getting to Net Zero?



Source: [Massachusetts 2050 Decarbonization Roadmap](#)

**How will Natick get there?**



Green the grid with renewable energy sources.



Make our homes and buildings super-efficient.



Electrify cars, trucks, buses, trains, and other ways we get around.



Produce more renewable energy locally.



Electrify heating and cooking equipment.



Make walking, biking, and public transit the best way to get around.

# Natick's Net Zero Roadmap

Where we are headed



# Roadmap Milestones



**Green the grid with renewable energy sources.**



**Produce more renewable energy locally**



**Make our homes and buildings super-efficient.**



**Electrify heating and cooking equipment.**



**Make walking, biking, and public transit the best way to get around.**



**Electrify cars, trucks, buses, trains, and other ways we get around.**

## TODAY

## 2030

## 2050

Our electricity supply comes from 26% carbon-free sources.

Our electricity supply comes from 100% carbon-free sources.

There are 15.5 megawatts of installed solar capacity in Natick.

Half of all viable roofs in Natick have solar.

Maximize the installation of solar capacity in Natick.

All new buildings built to the state stretch energy code.

All new buildings are built to net zero standards and nearly half of all homes have been retrofitted.

Nearly all existing homes and businesses in Natick have been retrofitted.

25% of residents participate in the MassSave Program

Approximately 21% of homes rely on electric heating.

Every new heating and cooking system installed is electric.

Nearly all homes and businesses rely on electric heating.

Approximately 17% of residents walk, bike, take public transit or telecommute to work.

All new developments are accessible by biking walking or connected to public transit.

Nearly every Natick home and business is accessible by biking or walking or connected to public transit.

Less than 0.1% of vehicles registered in Natick are zero emissions.

Nearly all new vehicle purchases are zero emissions (where feasible).

Nearly all passenger and commercial vehicles registered in Natick are zero emissions.



# Priority Actions for 2021-2025



**WHERE OUR ENERGY COMES FROM**

- 1. Pursue 100% carbon-free electricity in Natick’s aggregation by 2030. • •
- 2. Transition municipal electricity to 100% carbon-free electricity by 2030. • •
- 3. Change zoning to make it easier to install clean energy technology. • • • • •
- 4. Maximize clean energy technology on municipal and school properties. •
- 5. Support state legislation and policies to decarbonize the region's electricity. • •
- 6. Advocate for the accelerated repair of natural gas leaks. •
- 7. Partner with residents and businesses to increase local solar capacity. • •

**OUR HOMES AND BUSINESSES**

- 8. Create an ongoing program to help home and business owners reduce emissions. • • • • •
- 9. Require large, new commercial buildings to gradually achieve net zero by 2040. • • •
- 10. Require large commercial building owners to report on and reduce energy use. • •
- 11. Adopt net zero standards for new public buildings and major renovations. • • •
- 12. Support state legislation to establish a net zero stretch code. • • • • •
- 13. Require at least one climate-ready feature on all new or replaced roofs. •
- 14. Opt into the state's commercial Property Assessed Clean Energy law. • • •

**HOW WE GET AROUND**

- 15. Expand access to and better promote electric vehicle charging stations. •
- 16. Prioritize zero emissions mobility options in community planning. • •
- 17. Pilot bike, electric car and ride share programs. •
- 18. Adopt zero emission standards for the municipal fleet. •
- 19. Advocate for improvements and electrification of transit. • •
- 20. Partner with local EV dealers to offer discounts and promote state rebates. •
- 21. Advocate for changes that are beneficial to EV owners and the electric grid. • •

# Partnering with the Commonwealth



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# Leading by Example



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# Our Plan for Implementation

Working together to achieve net zero by 2050



# Implementation Strategies



## GOVERNANCE

Establish a net zero action task force to support implementation across the community.

Align municipal department responsibilities with plan objectives.

Report on metrics of success and update the Town's greenhouse gas inventory on a semi-annual basis.

Revisit and update the plan every five years.



## PUBLIC ENGAGEMENT AND EDUCATION

Build relationships and capacity to engage with vulnerable populations in Natick.

Support training for Town staff, leaders, and developers on net zero.



## PARTNERSHIPS AND COLLABORATION

Build a local action coalition with community business partners.

Coordinate climate action regionally with Metro West municipalities.

Strengthen collaborative relationship with Eversource.

**Thank you**