



# Progress on Net Zero Goal

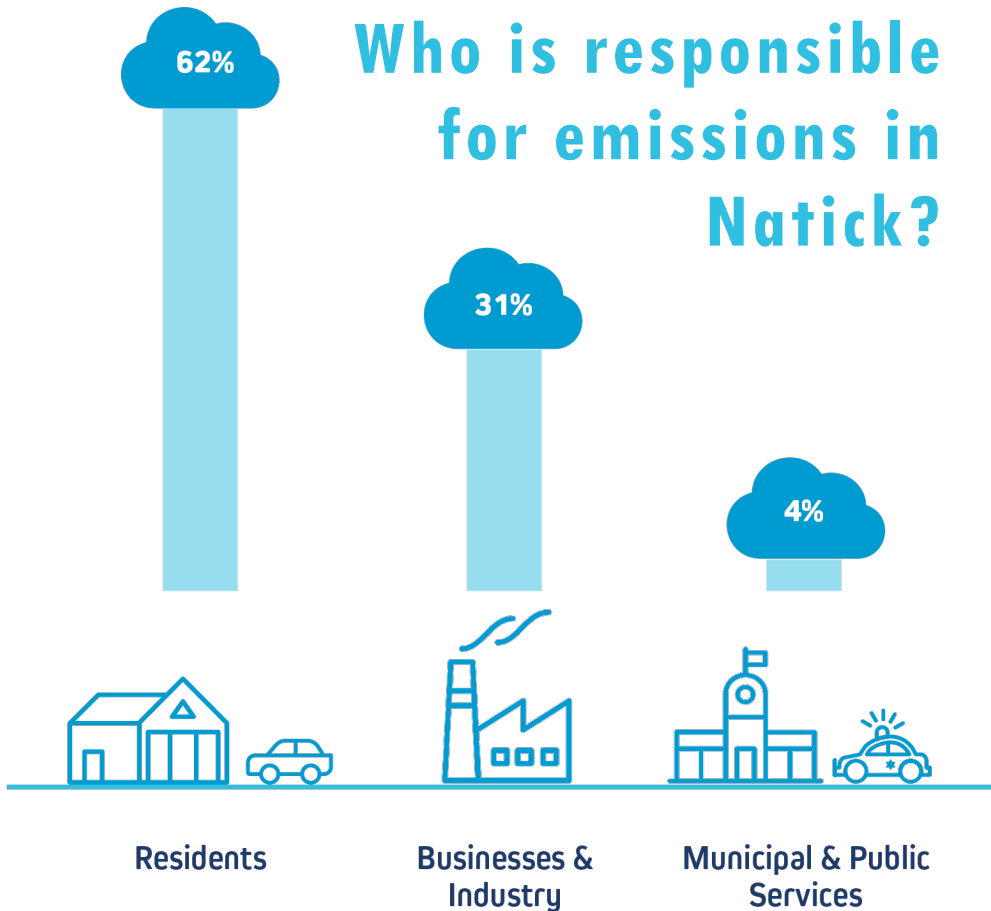
FY22 YEAR IN REVIEW

2022 SPRING TOWN MEETING

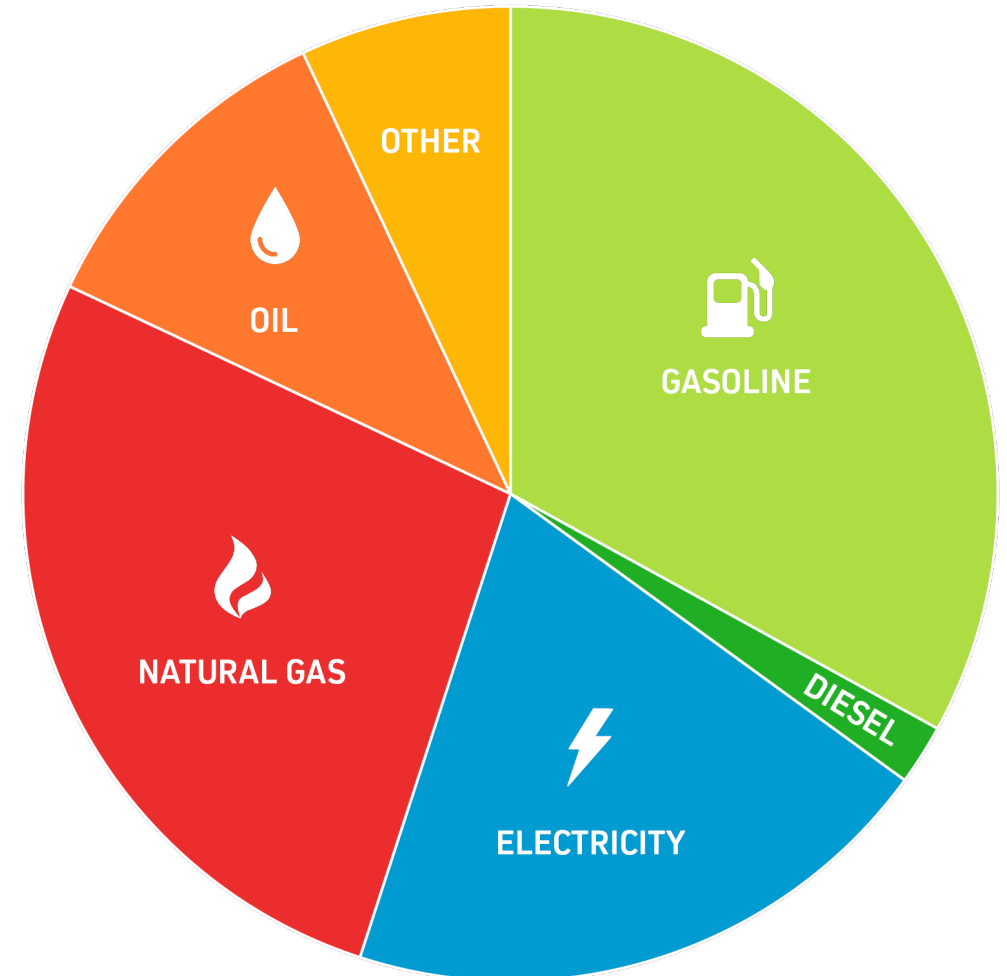


# Greenhouse Gas Emissions in Natick

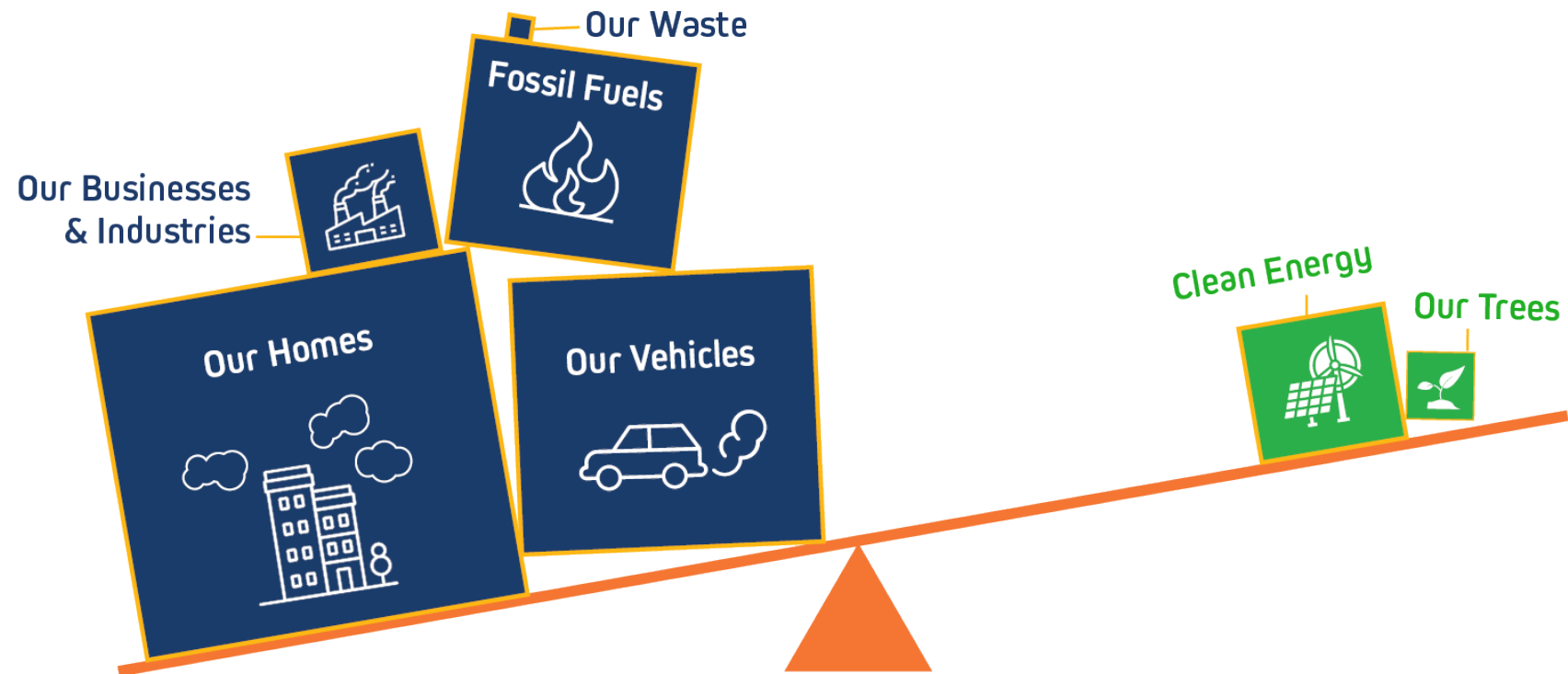
Who is responsible for emissions in Natick?



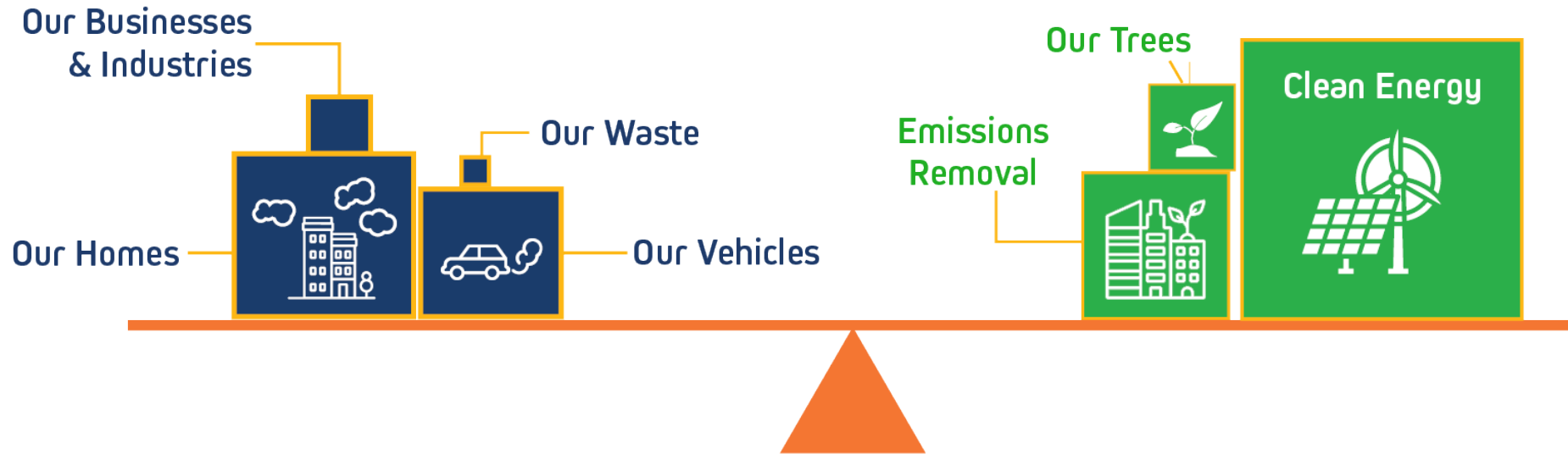
Which fuels generated the most emissions in Natick?



# From this...



# ...to this!



# Natick's Net Zero Strategies

## WHERE OUR ENERGY COMES FROM



Green the grid with renewable energy sources.



Produce more renewable energy locally

## OUR HOMES & BUSINESSES



Make our homes and buildings super-efficient.



Electrify heating and cooking equipment.

## HOW WE GET AROUND



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



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

# FY22 Highlights

**1,341**

Kilowatts of  
new local  
solar installed



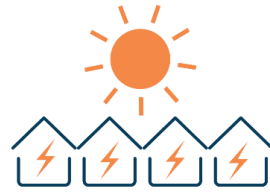
**1<sup>st</sup>**

Commercial Solar +  
Battery project begins



**64%**

of electricity  
provided by  
aggregation is  
carbon-free



**MetroWest**  
Solar + Clean Heat  
Challenge

**217**

Homes  
assessed for  
heat pumps

**\$500K**

Grant for heat pump at  
Morse Institute Library



**3**

Hybrid police cruisers  
added; full conversion  
planned over time



**\$15K**

Grant for  
electric fleet  
study



# Focus on Partners, People & Policy

## Working with Our Neighbors

- MetroWest Solar + Clean Heat Challenge
- MAPC Technical Assistance Program
- MVP Action Grants

## Listening & Learning for Equity

- Paid community liaisons helping to research needs
- Environmental Justice trainings for staff and volunteers

## Supporting Net Zero Statewide

- Stretch Code
- Better Buildings Act
- Climate/Energy Plans

# What's Next for FY23?

Explore New Opportunities for Electricity Aggregation

Launch Mass Save Community First Partnership

Consider Adopting Stronger Stretch Code

Pursue Community Solar

Evaluate Heat Pumps for School AC Needs

Pursue EPA Electric School Bus Grant

Explore Greening of Municipal Electricity Contract

Coach Multi-families on EV Charging

Adopt PACE?

Analyze Sustainability and Energy Affordability of Rental Housing Market

Research Bike and Care Share Grants



**Thank you**

# 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.	•				•

# Net Zero Strategies



**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.**

# Work Completed in FY22\*

Continued to decarbonize electricity supply through aggregation (16% above state)

Began installation of solar and battery storage project at KMS

Supported residential installs through MetroWest Solar + Clean Heat with Ashland, Framingham and Holliston

Worked with local condo communities to explore solar for homeowners association

Explored clean energy resilience solutions at Wilson MS and Water Treatment Plant with MassCEC

Began exploration of commercial Property Assessed Clean Energy (PACE) program

Testified in Better Buildings public hearing

Participated in DOER Stretch Code straw proposal conversations

Applied for/awarded Mass Save Community First Partnership grant with Framingham

Educated residents and builders on air-source and ground-source heat pumps

Designed air-to-water heat pump solution for Morse Institute Library; received DOER grant for \$500K to pursue

Explored heat pump solution for Ben Hem AC needs

Began co-design of 10+ community heat pump program

Applied for grants to improve pedestrian lighting and walkability of streets/paths

Opened Cochituate Rail Trail

Updated Complete Streets Prioritization Plan with community input

Partnered with Music Go Round on MassInnovate grant application for fast charging station

Installed new EV charging stations at Kennedy MS; maintained existing stations

Added three hybrid police cruisers as part of planned vehicle replacement

Began electric school bus exploration

Applied for/awarded \$15,000 grant to develop municipal fleet electrification plan

*\*Not a comprehensive list*