



Six Ways YOU can Save Money and the Climate!



PIZZA PARTY

LEARN ABOUT INCENTIVES, ENERGY COACHING, AND RESOURCES TO HELP YOU:

- Weatherize your home
- Heat and cool with heat pumps
- Go solar
- Get around sustainably
- Refuse, reduce, reuse, recycle
- Landscape sustainably

+Pizza



RSVP

TUESDAY, FEBRUARY 11

AT THE WELLESLEY FREE LIBRARY - WAKELIN ROOM
530 WASHINGTON STREET, WELLESLEY, MA

6:30 PM THROUGH **8:30 PM**

PIZZA AND SOCIALIZING

6:30-7:00 P.M.

PROGRAM

7:00-8:30 P.M.

For additional information contact:
ClimateAction@wellesleyma.gov



WELLESLEY CLIMATE ACTION

BE PART OF IT

Panelists

- Marybeth Martello, Sustainability Director
- Tess Ruderman, Sustainability Program Coordinator, MLP
- Chris Chan, Assistant Director, MLP
- Sheila Page, Mobility Manager
- Jamie Manzolini, Superintendent, Recycling and Disposal Facility
- Brandon Schmitt, Director, Natural Resources Commission
- Mary Gard, Climate Action Committee, Energy Coach, Sustainable Wellesley
- Fred Burger, Energy Coach, Formerly Climate Action Committee

Planning and Implementation

- Susan Zelenko, Sustainable Wellesley
- Lisa Gieger
- Organizing Committee
 - Janet Mosley, Martha Collins, Phyllis Theermann, Chris Chan, Lisa Gieger, Sue Morris, Ellie Perkins

What YOU can do to Save Money and the Climate!

Wellesley Free Library

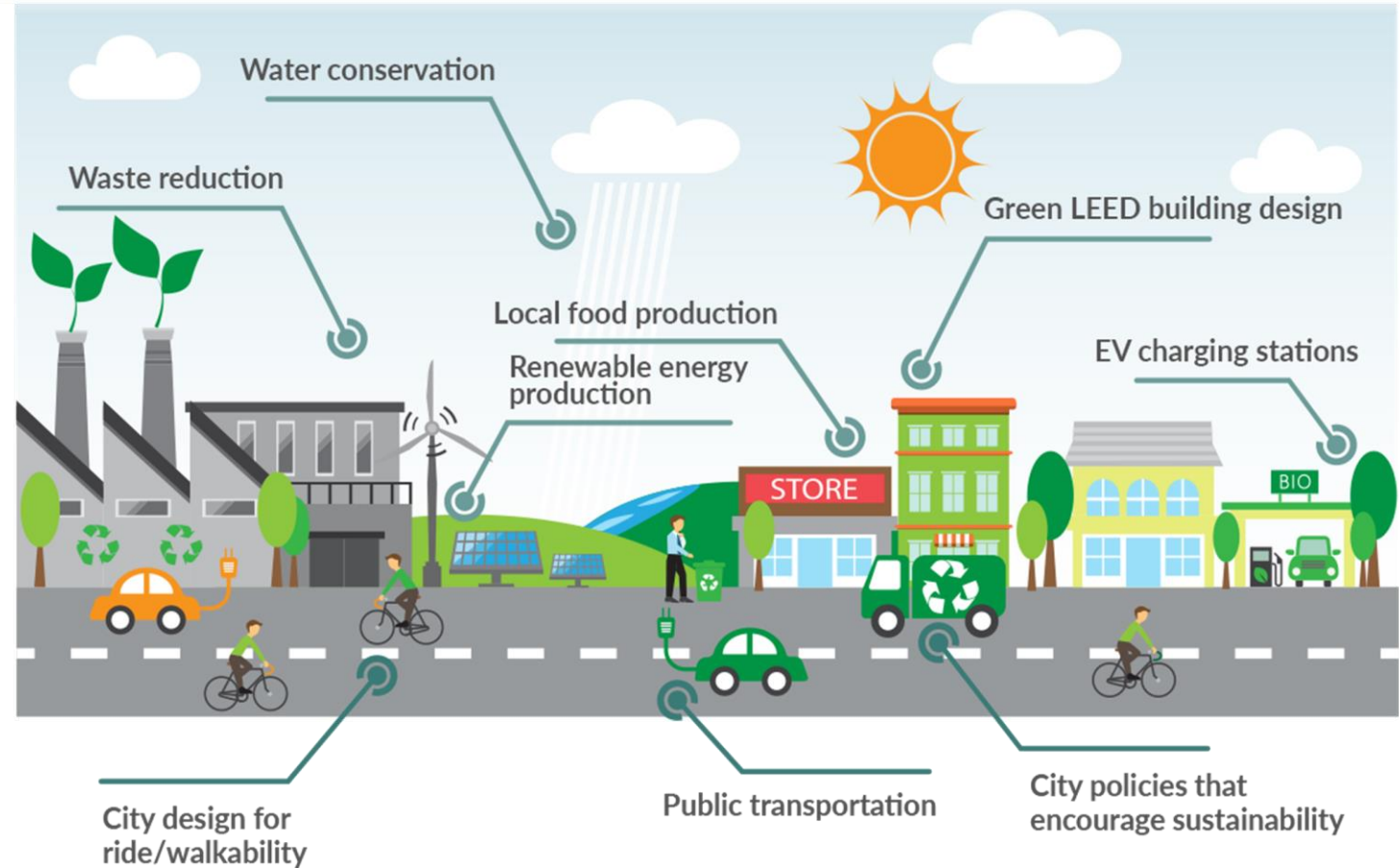
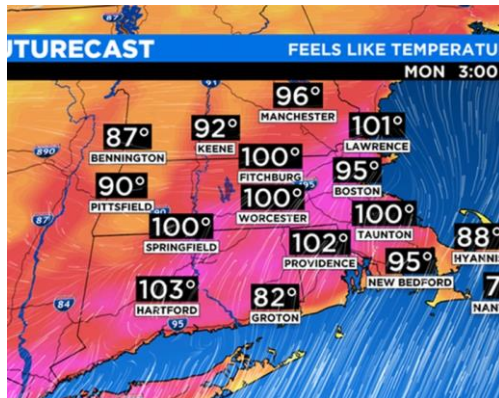
February 11, 2025



Urgent Crisis



Opportunity





WELLESLEY CLIMATE ACTION



BE PART OF IT

- Weatherize
- Heat and cool with heat pumps
- Go solar
- Get around sustainably
- Reduce waste
- Landscape sustainably

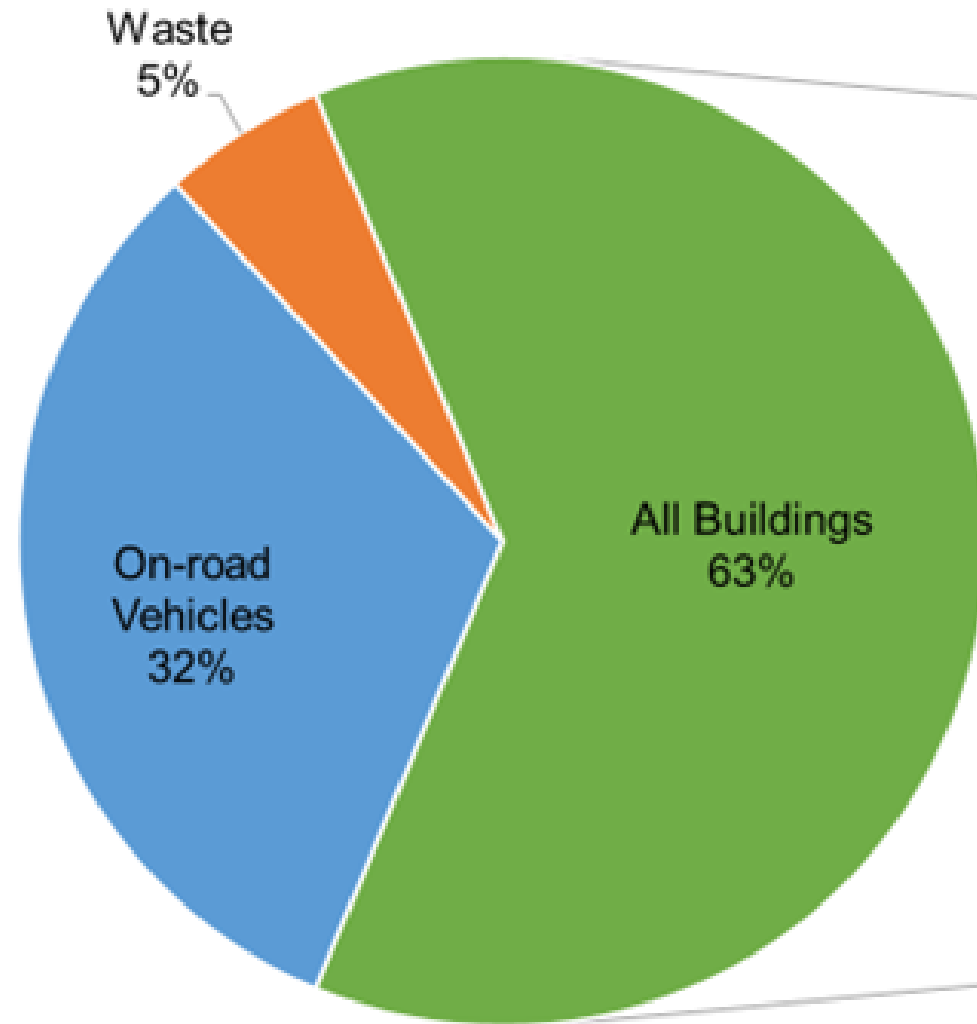
What?

Why?

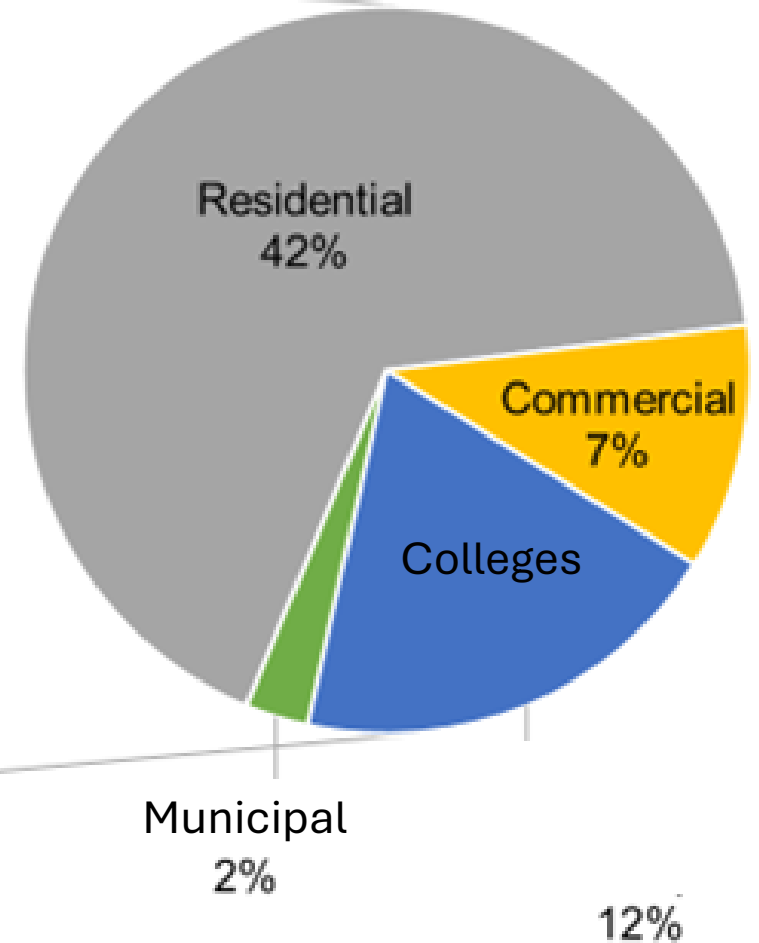
How?

<https://wellesleyma.gov/1505/Be-Part-of-It>

Contribution to 2023 Total GHG Emissions (MTCO₂e)



Building Emissions by Sector



Greenhouse Gas Emissions Reduction Goals

(set by Town Meeting in 2021)

50%

- Reduction by **2030**
- Compared to 2007 levels



75%

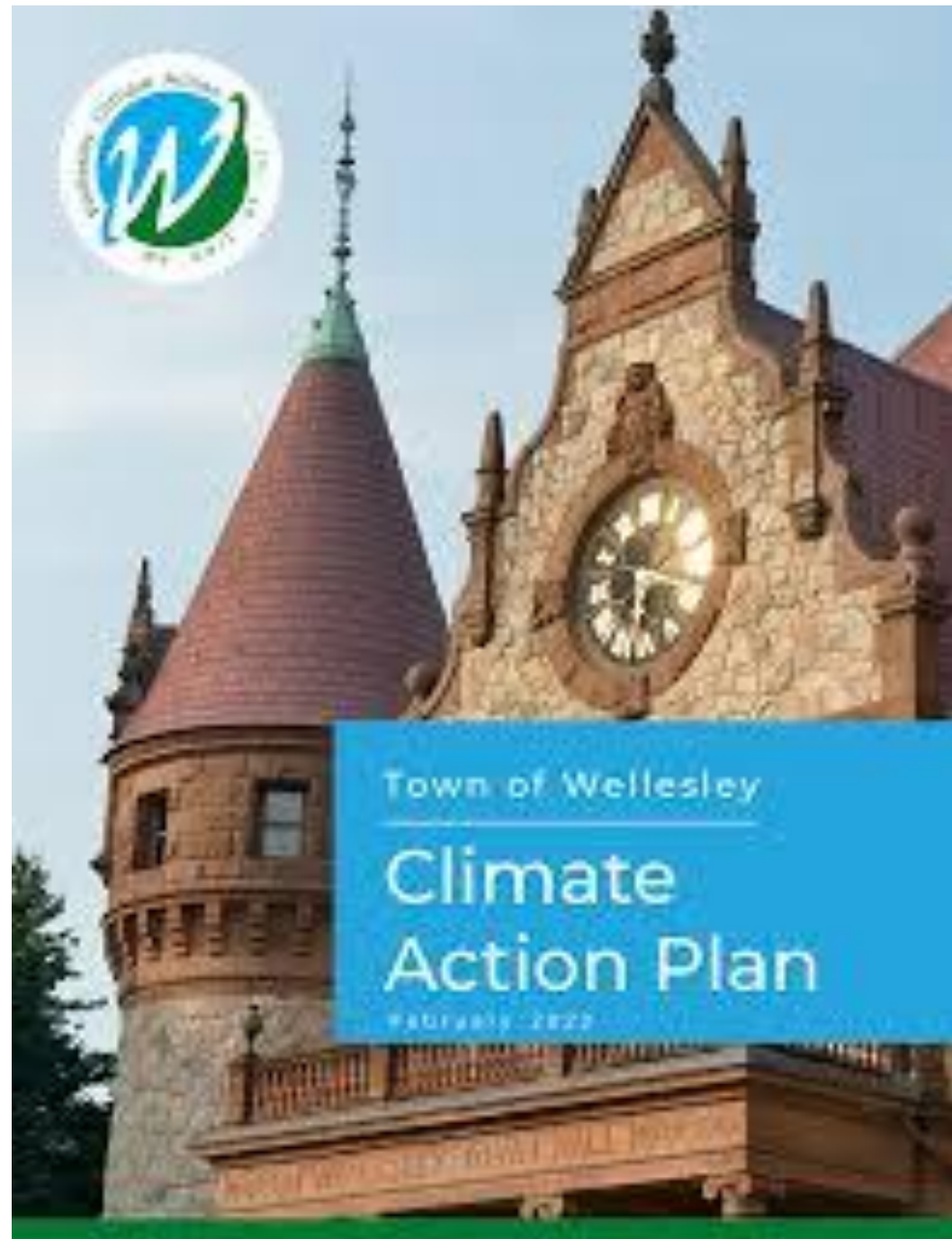
- Reduction by **2040**
- Compared to 2007 levels



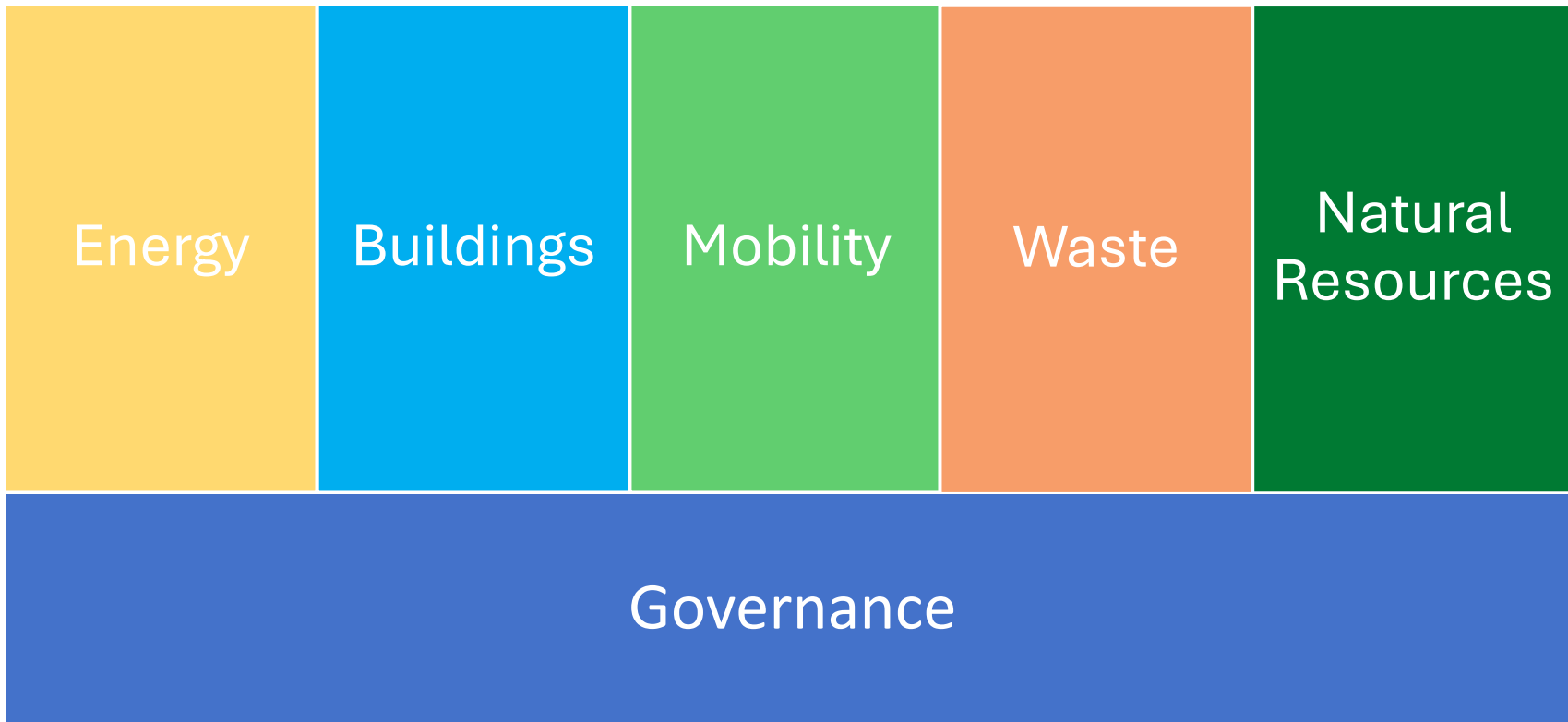
Net Zero

- Reduction by **2050**

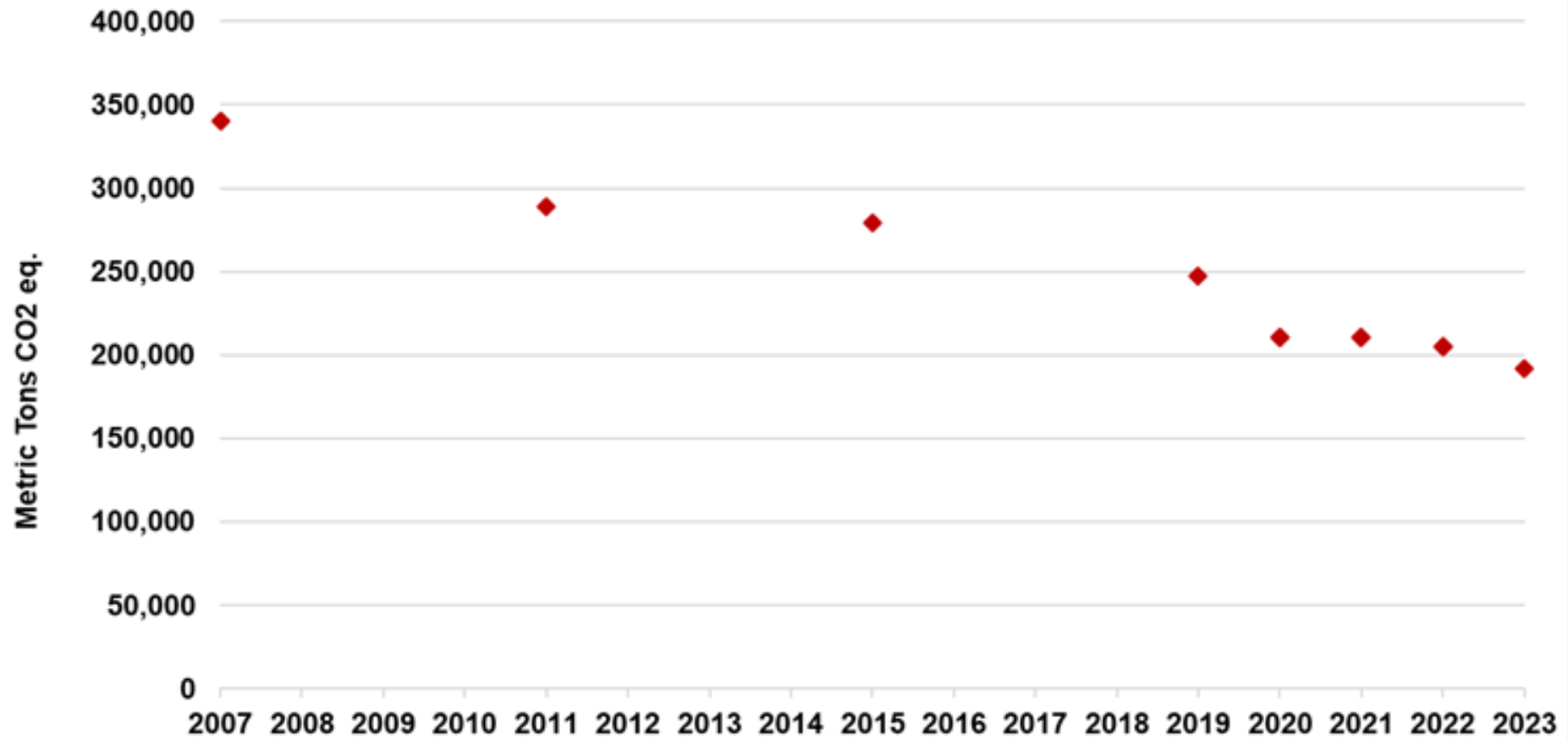
Townwide Roadmap



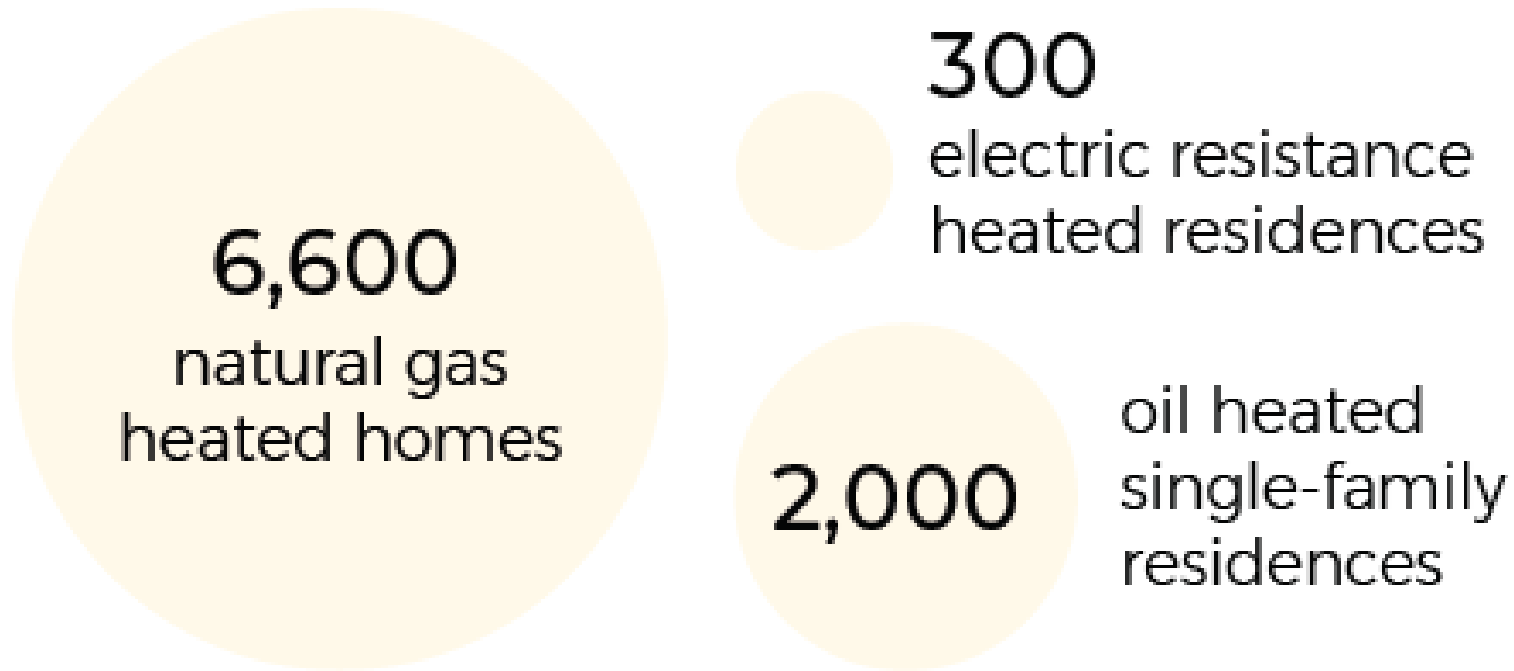
Climate Action Plan Pathways



Wellesley GHG Emissions 2007-2022



Wellesley Housing Stock



Use Less Green the Rest

Minimize Energy Use



NEEP



<https://www.epa.gov/vcs/energy-star>

Electrify



Shutterstock

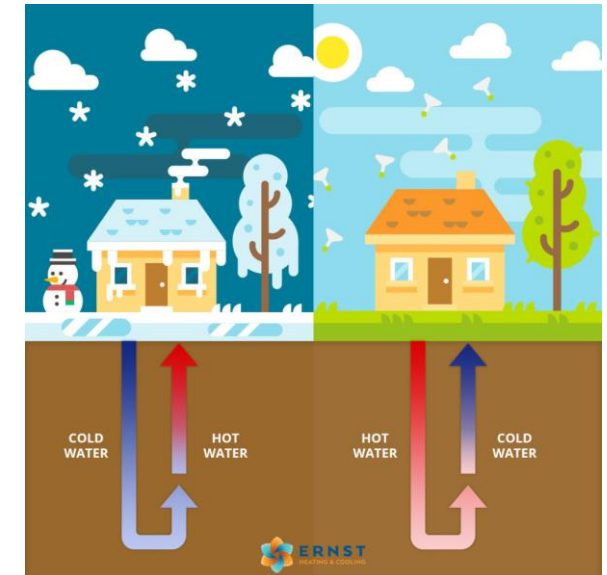


Business insider

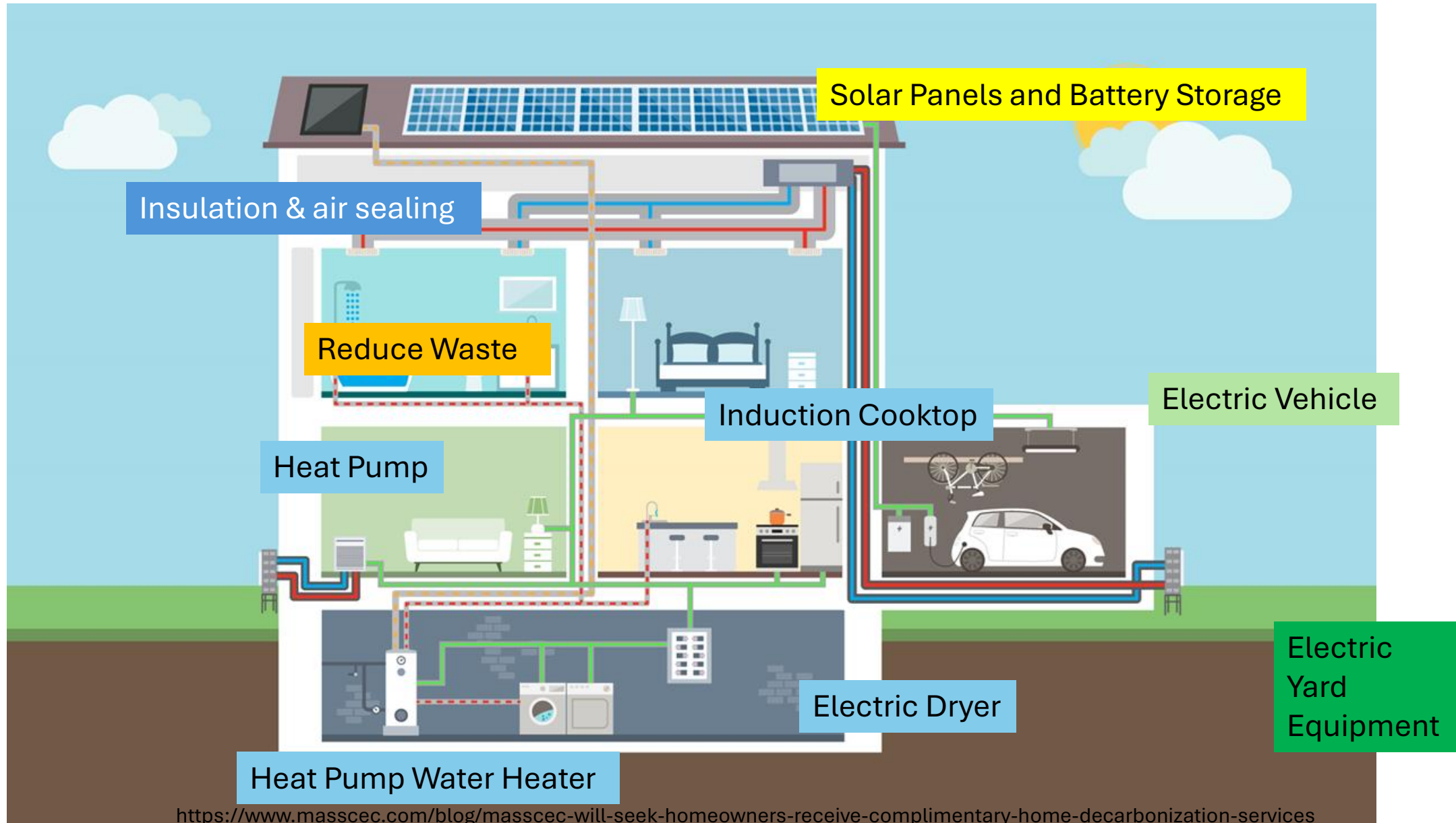


NPR Bill Pugliano/Getty Images

Use renewable energy



Use Less – Green the Rest



Weatherize & Heat and Cool with Heat Pumps

Why weatherize?

- Reduce heating and cooling costs
- Reduce GHG emissions
- Increase home value
- Increase HVAC life
- Increase comfort
- Reduce noise (w/certain insulation)
- Improve health
- Incentives



MassCEC: <https://goclean.masscec.com/weatherization/>



<https://www.rocketssprayfoam.com/fiberglass/>

Path to a
More
Comfy,
Efficient
Home



Contact a
no-cost
energy coach

Path to a
More
Comfy,
Efficient
Home



Contact a no-cost
energy coach



Get a no-cost
energy assessment

No-cost Home Energy Assessment

Call
781-305-3319

Gas-heated
Home

Call
888-577-8448

Oil-heated
Home

Path to a More Comfy, Efficient Home



Contact a no-cost energy coach



Get a no-cost energy assessment



Weatherize (in coordination with heat pump installation)

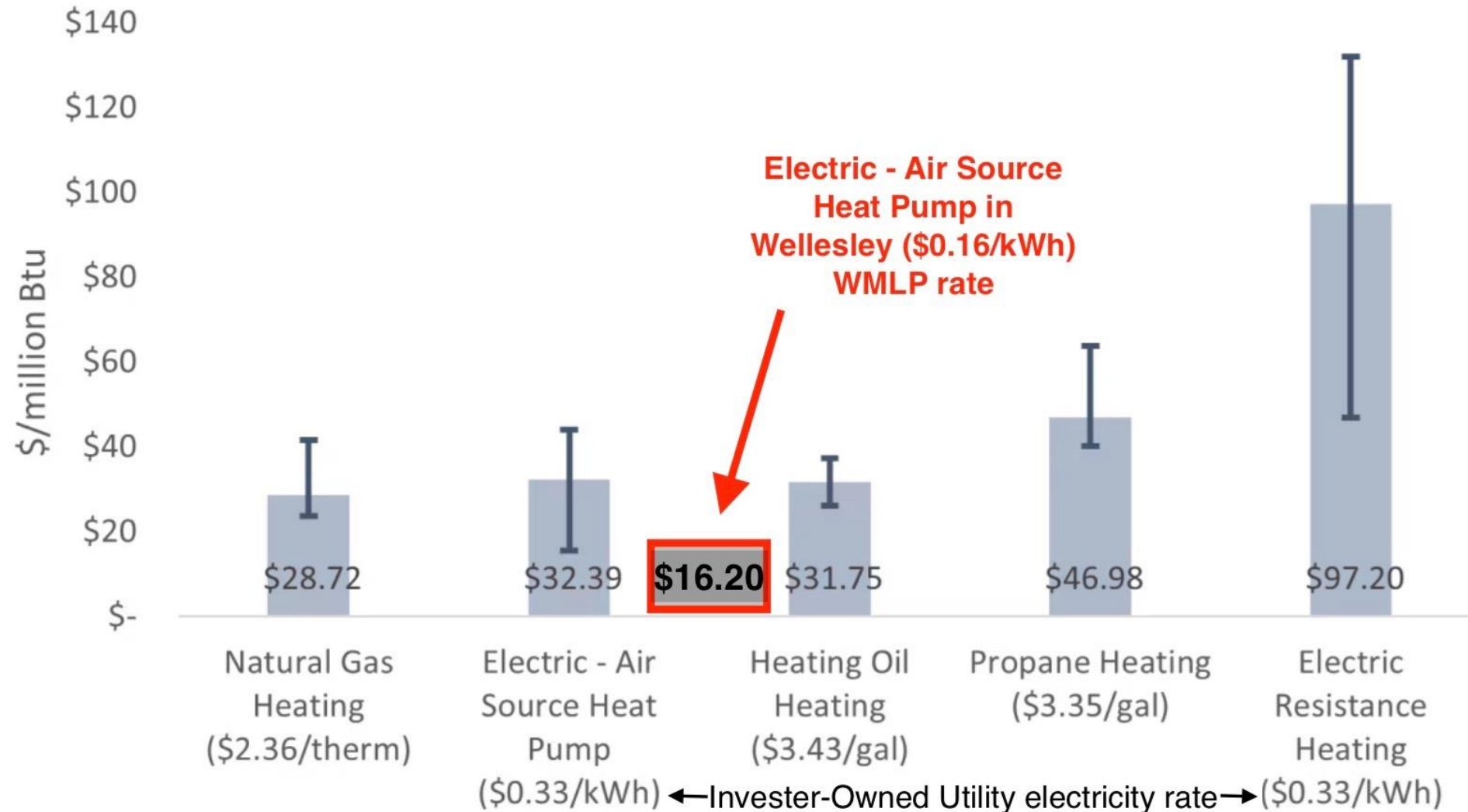
Why Install an Air Source Heat Pump?

- Heat, cool, and dehumidify
- Up to 3 times more efficient
- Less expensive to operate
- Lower greenhouse gas emissions
- Versatile
- Quiet
- Incentives
- Also – heat pump water heaters



Why Install an Air Source Heat Pump?

Figure 2: Cost to Produce Heat this Winter (2024/25) for Different Technologies



Path to a More Comfy, Efficient Home



Contact a no-cost energy coach



Get a no-cost energy assessment



Weatherize (in coordination with heat pump installation)



Get heat pump quotes

Path to a More Comfy, Efficient Home



Contact a no-cost energy coach



Get a no-cost energy assessment



Weatherize (in coordination with heat pump installation)



Get heat pump quotes



Select a contractor/install/get rebates

Leading by example



Financial Incentives: 3 Sources



- Utility Rebates
- 30% Federal Tax Credits
- 0% or Low-Cost Financing





SERVICES GOVERNMENT DEPARTMENTS COMMUNITY



Search...



Home Weatherization and Efficiency

	Energy Audit	Weatherization & Air Sealing (contractor installed)	Energy Star Doors	Energy Star Windows	Weatherization Barrier Mitigation
Mass Save Program (For residents with natural gas service)					
Standard Rebates	Free	75-100%		\$75 per window replaced (pre-verification and weatherization required)	
Income Qualified Programs	Free	Free		May qualify for no-cost replacement of eligible inefficient windows	Up to \$7,000
Heat Loan (0% interest financing for 7 years)		Up to \$25,000		Up to \$25,000	Up to \$25,000
Wellesley Municipal Light Plan Incentives (For residents with oil, propane, and electric heating)					
Incentives	Free	50% up to \$1,500; 50% up to \$2,500 if completed within six months of a whole-home heat pump system			
State Incentives					
Energy Saver Home Loan Program	Low interest loan up to \$100,000 for energy-related home improvements for low and moderate income households.				
Federal Incentives <i>(Credits below can be combined up to an annual maximum of \$1,200)</i>					
Tax Credits	30% up to \$150	30% up to \$1,200 for insulation or air sealing materials; contractor not required	30% up to \$250/door, max \$500	30% up to \$600	<div> Select Language</div> <div></div>

Select Language

Google Translate

Incentives for Weatherization

1. Utility Incentives

- **Free Energy Assessment**
- **Insulation savings:** 75-100% of insulation cost (gas customers), or 50%, up to \$2,500 (non-gas customers)

2. Federal Tax Credit

- **30% of cost**, up to \$1,200 **annually**
- Includes insulation, windows, doors



3. Financing

HEATLoan

- 0% interest, 3-7-year term \$25,000 gas customers only,
- **Any income level**

OR

Energy Saver Home Loan

- .5 - 2% Interest, 20-year term, \$100,000
- Must make under \$191,700, annually

Incentives for Heat Pumps

1. Utility Incentives - Up to \$10,000, both gas and non-gas heated homes

2. Federal Tax Credit - 30% of cost, up to \$2,000 **annually**

Includes Air-Source Heat Pumps, Air-to-Water Heat Pumps, Heat Pump Water Heaters, Electric panel upgrades, Geothermal systems (ground source heat pumps) have NO annual cap



3. Financing

HEATLoan

- 0% interest, 3 – 7-year term \$25,000 gas customers
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Energy Saver Home Loan:

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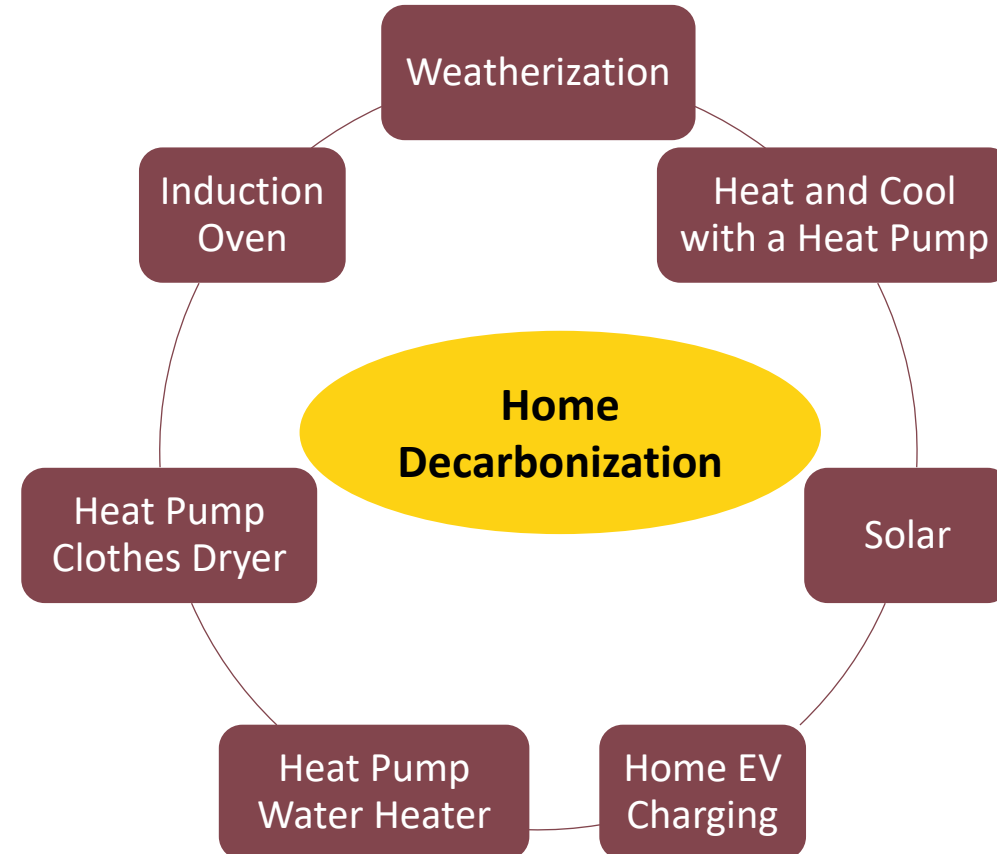
Energy Coach Program

Climate & Pizza Party

February 11, 2025

Benefits of Energy Coaching

1. Energy Coaches work to understand your home's **unique needs** based on home age, existing HVAC, current heating fuel, additions & renovations
2. **Plan ahead** for electrifying home systems *before they break*
3. Energy Coaches can help residents navigate and **prioritize** between a variety of projects



Energy Coaches can help...

1. Solicit, understand, and compare contractor bids
2. Answer questions

Is this heat pump model the right size for my house?

Do we need an electrical panel upgrade?

What's the best bang for my buck in home energy efficiency?

3. Access **financial incentives** for energy efficiency upgrades

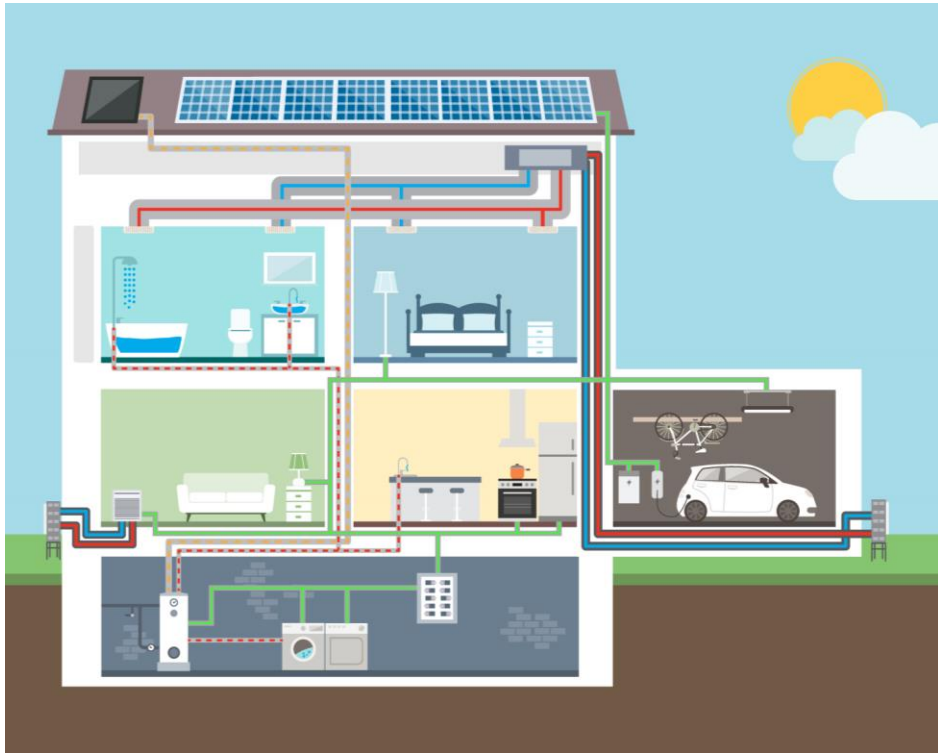


Image Source: MassCEC



Energy Coaches Are...

Up to date on the [rebates and incentives](#) landscape, for example:

- Up to \$10,000 heat pump rebate from the Wellesley Municipal Light Plant or MassSave
- Up to \$2,000 in federal tax credits
- [Energy Saver Home Loan Program](#) for households earning up to \$191,700

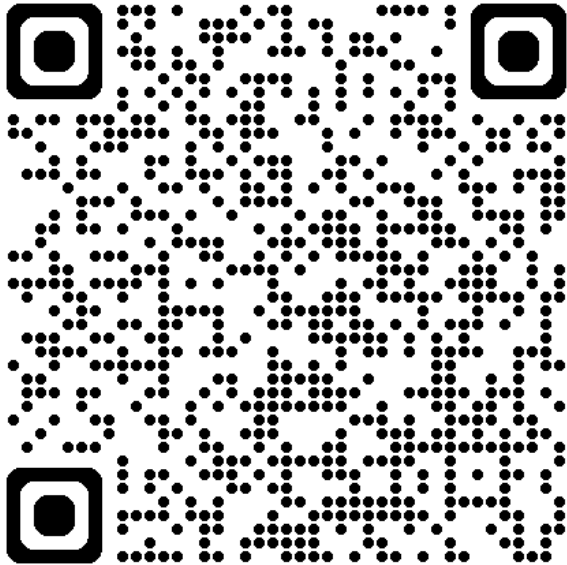
Where do I
apply for the
rebate?





Reach out!

Sign up for [Energy Coaching](#):



- Request tabling or a presentation at your community event
- Questions?
Contact Tess Ruderman at EnergyCoach@wellesleyma.gov



Go Solar

Solar is right for the Town!

- Source of locally produced clean renewable energy which displaces GHG emissions from the Town's electric supply (and your home)

Is Solar right for you?

- **Save money:** costs offset by rebates, tax credits, and electric bill savings
- Do good for the **environment and health**; electrify using clean energy
- Increase the **value of your home**
- **Consider** roof age, condition, and orientation; shading; and doing home energy assessment and efficiency improvements
- **WMLP's Go Solar webpage**
 - Online tools to estimate costs, solar energy production, and potential energy savings; and get quotes
 - Interconnection process
 - WMLP rebate program (administered by Energy New England)
 - Net metering



Source: Sustainable Wellesley at <https://www.sustainablewellesley.com/news/wellesley-new-solar-rebate-program-is-icing-on-the-cake-to-state-federal-tax-credits>, July 3, 2024.

Wellesley Climate Action – Be part of it!

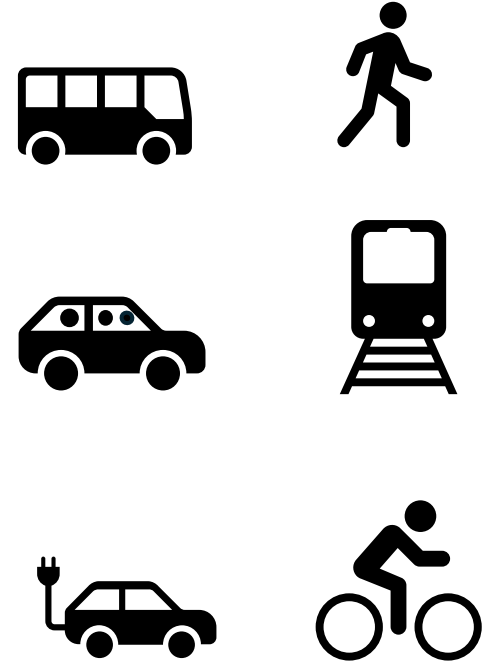
Sustainable Mobility

Sheila Page – Transportation and Mobility Manager
spage@wellesleyma.gov

What is Sustainable Mobility?

Transportation that is:

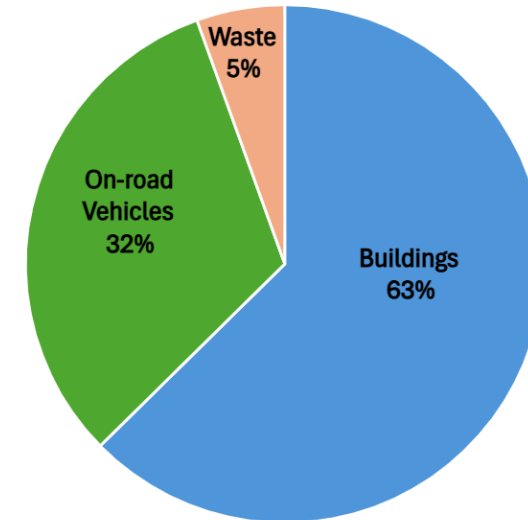
- Safe
- Time efficient
- Supports our economy
- Reduces fuel consumption and emissions
- Takes less space
- Enhances our quality of life



Why is it important?

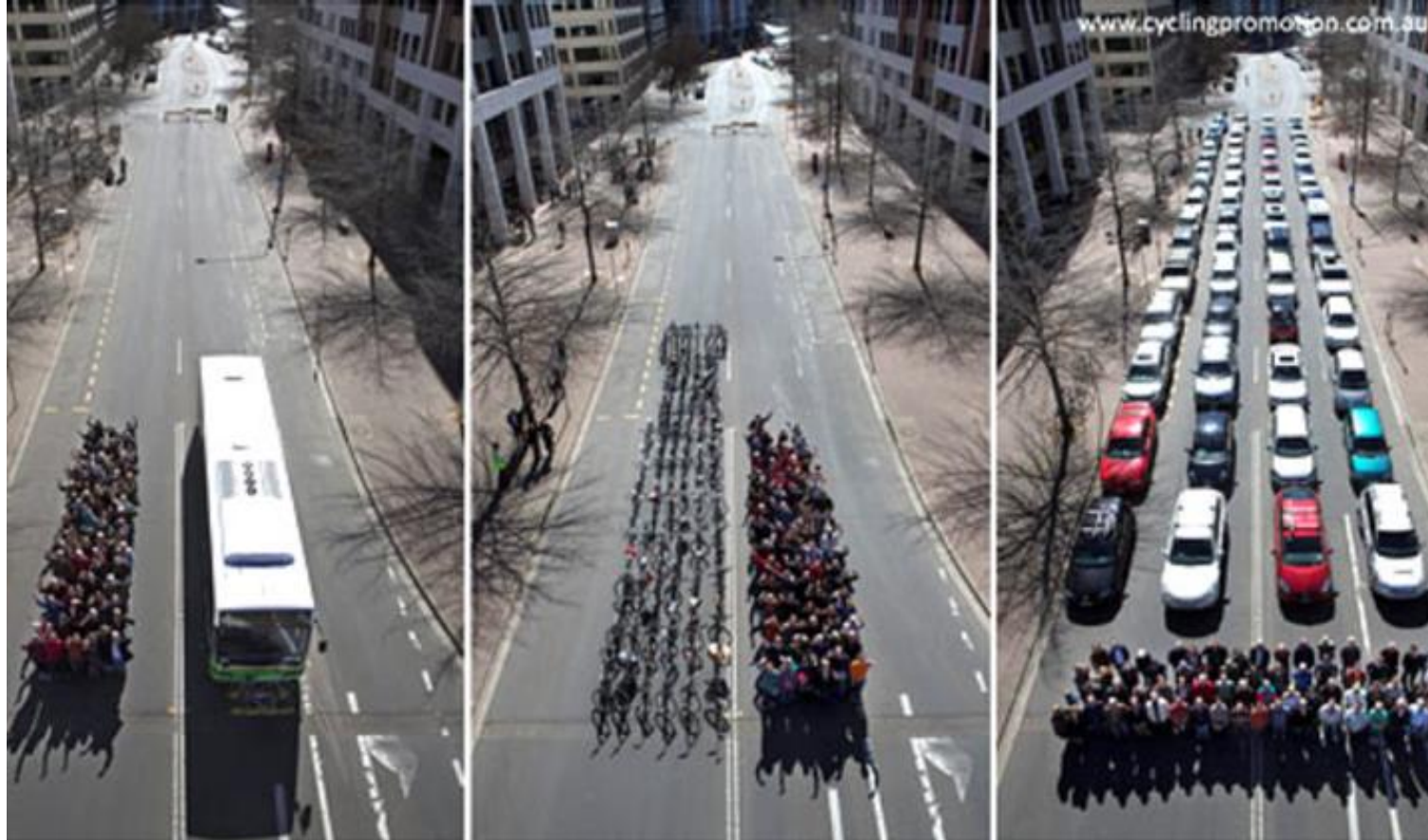
- 32% of Wellesley's greenhouse gas emissions comes from Transportation
 - Carbon dioxide, nitrous oxide, methane, fluorocarbons
- Pollution from vehicle emissions is harmful to our health and environment

Contribution to 2023 Total GHG Emissions (MTCO₂e)



Source: Town of Wellesley 2023

Why is it important?



Single occupancy vehicles (SOV's) take up a lot of space and resources.

Why is it important?

- 5,293,342 vehicles registered in MA
- 156,345,474 miles driven in 2024
- 29.5 average miles driven per day
- Traffic Congestion costs
 - Time
 - Fuel
 - Health impacts

\$179,000,000,000
COST OF TIME & FUEL LOST TO TRAFFIC CONGESTION, 2017.


\$1,080
Average
Annual
Cost of
Congestion
(per commuter)

URBAN
MOBILITY REPORT
2019

<https://mobility.tamu.edu/umr>


3.3
BILLION
gallons of fuel
WASTED
on congestion

 Texas A&M
Transportation
Institute

Source: 2019 Urban Mobility Report, Texas A&M Transportation Institute

What can you do? Change Our Culture

In 2024, there were 325 roadway fatalities in Massachusetts - - 87 were people not in vehicles

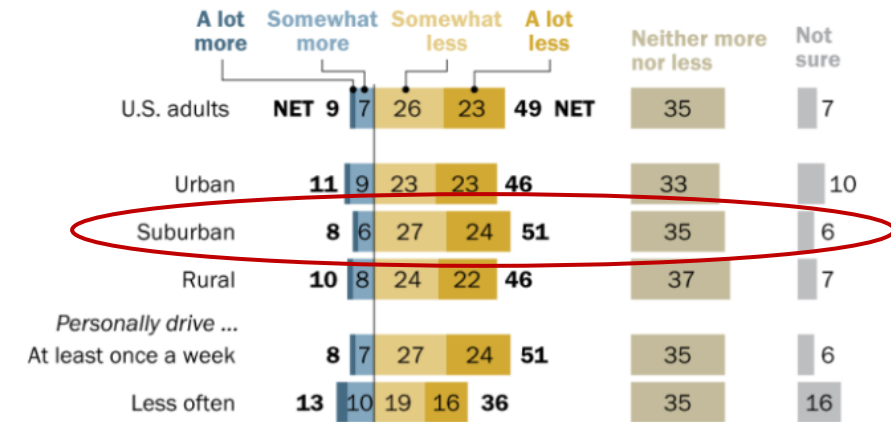
Drive Responsibly

- Drive the speed limit
- Obey “no right on red”
- Stop for people in crosswalks
- Be patient - resist road rage

Erratic driving is dangerous and discourages people to walk.

On balance, Americans say people in their area are driving less safely than they were before the pandemic

% who say that compared with five years ago, people in their local community are driving ____ safely



Note: Those who gave no response are not shown. "Personally drive less often" includes those who say they drive a few times a month, seldom or never.

Source: Survey of U.S. adults conducted Aug. 12-18, 2024.

PEW RESEARCH CENTER

What can you do? Change Our Culture

Put Down that Phone!

- Delays caused by distracted drivers unnecessarily increase emissions
- Distracted drivers killed 3,308 people in 2022



What can you do? Change Our Culture

Reduce Single Occupancy Vehicle Trips (SOV's)

- Choose to walk, bike or bus or carpool
- Riding the school bus is cool!



What can you do? Take Public Transportation



MBTA Commuter Rail

- Wellesley Square
- Wellesley Hills
- Wellesley Farms

MWRTA – Route 1 Bus Flag Down



- Catch Connect
order through app or phone
first/last mile
Woodland T Station



MWRTA is Fare Free! Through June 30, 2025

What can you do? Take Public Transportation

The screenshot shows the Town of Wellesley website. The header includes the town logo, navigation links (SERVICES, GOVERNMENT, DEPARTMENTS, COMMUNITY), social media icons, and a search bar. The main content area is titled "Getting Around Wellesley and Beyond" and features a sidebar with links to various transportation services. The main text describes the MWRTA (MetroWest Regional Transit Authority) transit service and the MBTA Commuter Rail. It also mentions the "mTICKET" app for purchasing fares. A section titled "Catch Connect" describes a curbside micro transit system. At the bottom, there are buttons for "Get Around Wellesley", "Get to Medical Appointments", "Get to Boston or Worcester", "Get to Logan Airport", "Get to the Colleges", and "Get Beyond Boston".

Town of WELLESLEY MASSACHUSETTS

SERVICES GOVERNMENT DEPARTMENTS COMMUNITY

Home • Departments • Departments S-Z • Select Board Office • Mobility • Getting Around Wellesley and Beyond

Getting Around Wellesley and Beyond

With MWRTA (MetroWest Regional Transit Authority) transit service and three regional rail stops, Wellesley has lots of car-free options to get around town, into Boston, and out to Worcester. The MWRTA buses and Catch Connect are FREE until July 2025.

Fares for the MBTA Commuter Rail are best paid using the "mTICKET" app. Tickets can be preloaded using a credit or debit card. The "mTICKET" is only for the commuter rail. If you are also riding the "T" or MBTA bus, the CharlieTICKET can be preloaded for all three modes of transportation.

Are you new to the commuter rail? Check out the [MBTA Commuter Rail Guide](#).

Do you prefer to see information all in one place? See Wellesley's [Public Transportation Guide](#).

▼ Get Around Wellesley ▶ Get to Medical Appointments ▶ Get to Boston or Worcester

▶ Get to Logan Airport ▶ Get to the Colleges ▶ Get Beyond Boston

Catch Connect will bring you anywhere in Wellesley!

Catch Connect is ideal for first and last commuter rides to/from the MBTA T Stops and the Regional Rail Stations and it's FREE! Catch Connect is a curbside micro transit system. Trips can be anywhere in Wellesley and to/from Woodland and Waban MBTA Greenline T Stations, Needham Heights Commuter Rail Station, Newton-Wellesley Hospital, and the Natick Community Center. Trips must be booked when the customer is ready and are provided on a first come, first served basis. [Catch Connect website](#) for more details.

Select Language Google Translate

<https://www.wellesleyma.gov/2405/Getting-Around-Wellesley-and-Beyond>

What Can you Do? Drive an Electric Vehicle

- ZERO tail pipe emissions
- Financial incentives
- Electricity from renewable sources
- Generally lower fuel costs
- No more trips to the gas station
- Lower maintenance
 - Saves approx. \$5,000 in 8 yrs.
- Healthier local air quality
- Quieter
- Fun to drive
- Better acceleration
- Smoother handling



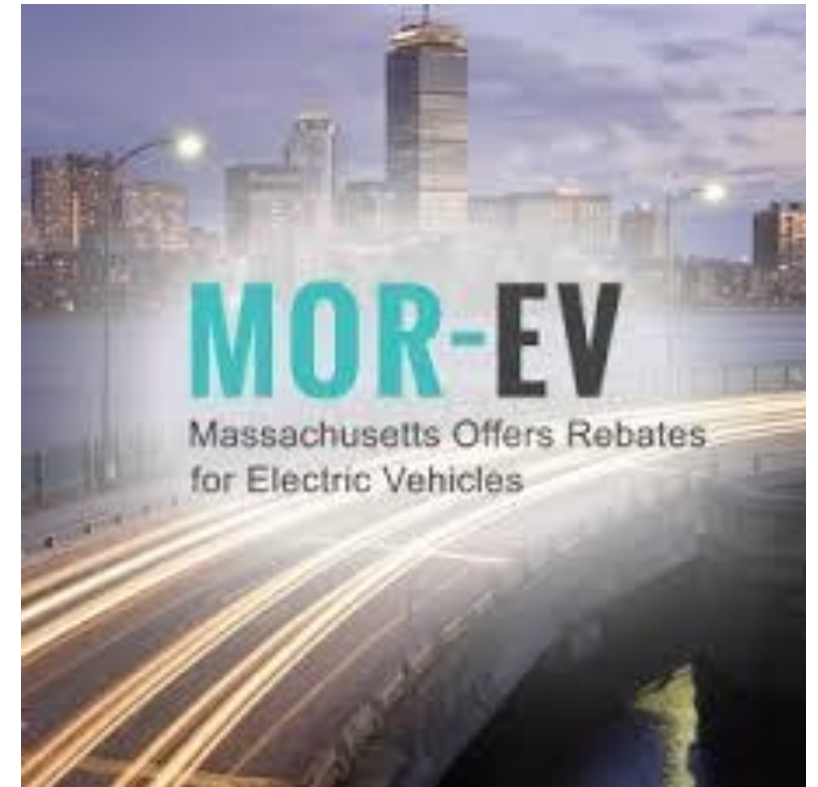
What Can you Do? Drive an Electric Vehicle

- Research
- Test drive
- Plan for charging
 - Trickle charging is often sufficient
- Incentives



What Can you Do? Drive an Electric Vehicle

- State Mor-EV program
 - New and used cars: up to \$3,500
 - +\$1,500 if income qualified
 - New EV trucks: up to \$7,500
 - Trade-in fossil fuel vehicle for EV: \$1,000
- Federal tax credit
 - New: up to \$7,500
 - Used: 30% of sale price, up to \$4,000
- Bring Your Own Charger (BYOC) Program
 - \$8/month of electricity bill
- \$250 MLP charger rebate



What Can you Do? Leading By Example

- 15 all-electric vehicles
 - 11 DPW
 - 2 MLP
 - 1 Police
 - 1 Library
- 1 plug in hybrid - DPW
- 17 hybrids
 - 7 DPW
 - 1 MLP
 - 8 Police
 - 1 Fire



What Can you Do? Advocate

- Use public transportation
- Support projects, laws and regulations that prioritize alternative modes
- Mini-high success

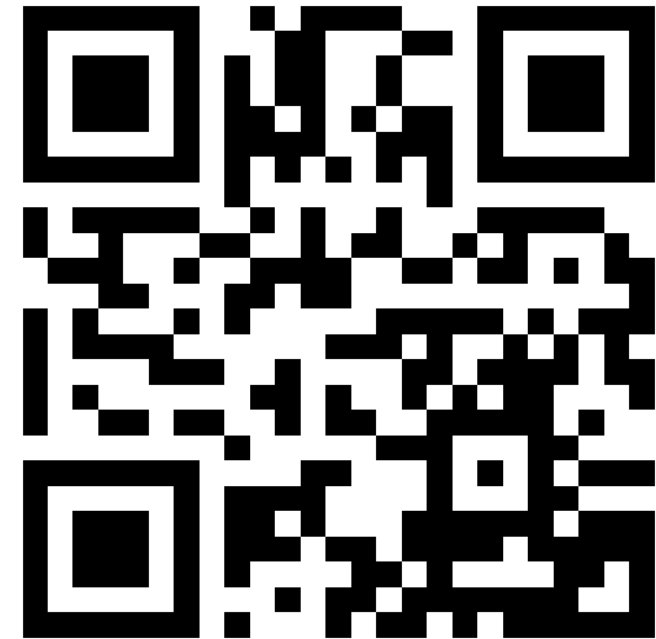


What Can you Do?

Participate

Complete Streets make travel safe, comfortable, convenient, and accessible for people of all ages, abilities, and travel modes.

- Complete Streets Prioritization Plan
Identify and prioritize
Provide input: <https://arcg.is/K9LXX0>
- Try shifting your travel mode for
May - Mobility Month



Thank You!

Sources:

Texas A&M Transportation Institute
MVC Massachusetts Vehicle Census
MassDOT Crash Portal – Impact
Mass 2023 Strategic Highway Safety Plan

National Highway Traffic Safety Administration
Pew Research Center
AAA – Foundation for Traffic Safety
Environmental Effects of Driver Distraction at
Traffic Lights: Mobile Phone Use (2023) Alemdar,
Çodur, Codur, Uysal



Wellesley Recycling & Disposal Facility (RDF)

169 Great Plain Ave Wellesley

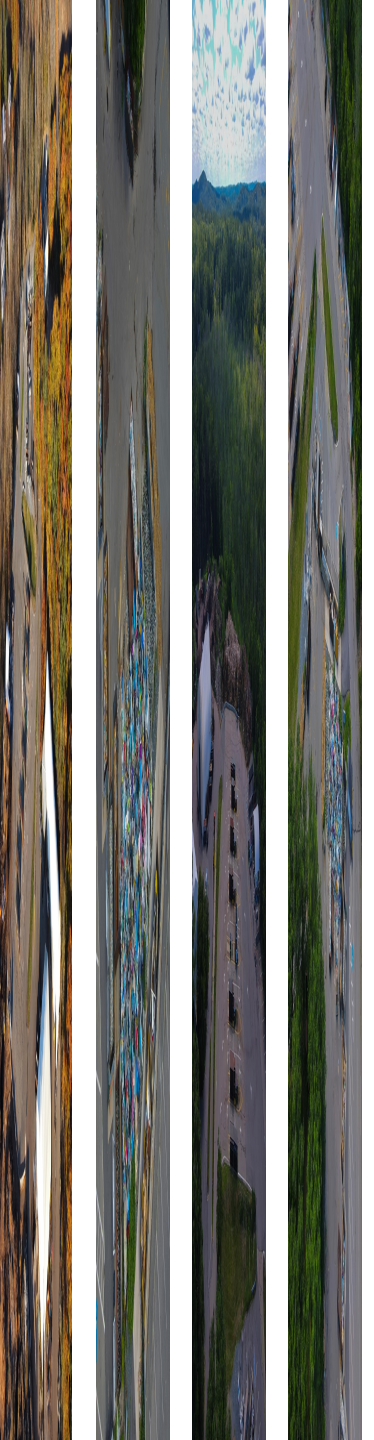
Transfer Station – MRF (Material Recovery Facility)

13,500 Tons of material processed annually

7,000 Tons MSW

6,500 Tons Diverted for Recycling

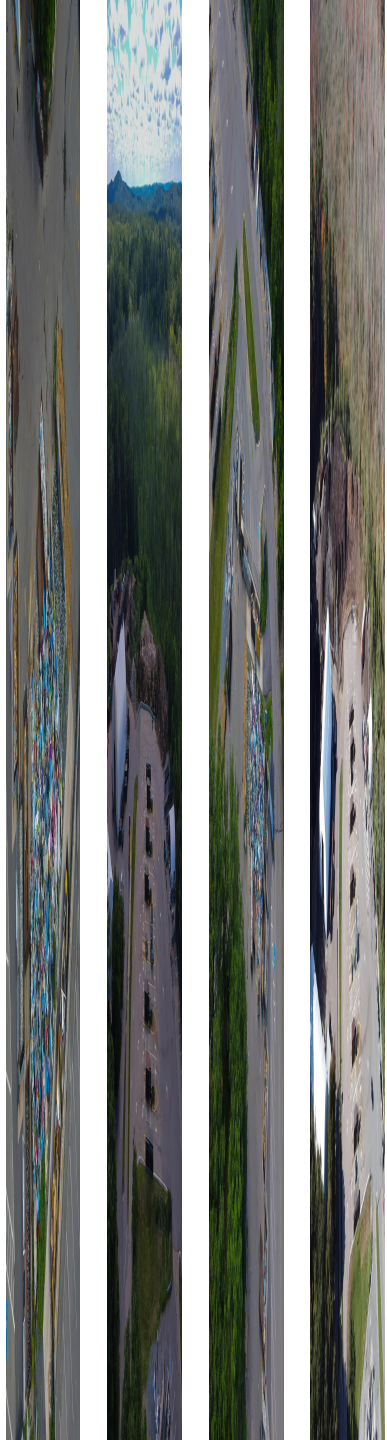












Wellesley Recycling & Disposal Facility (RDF)

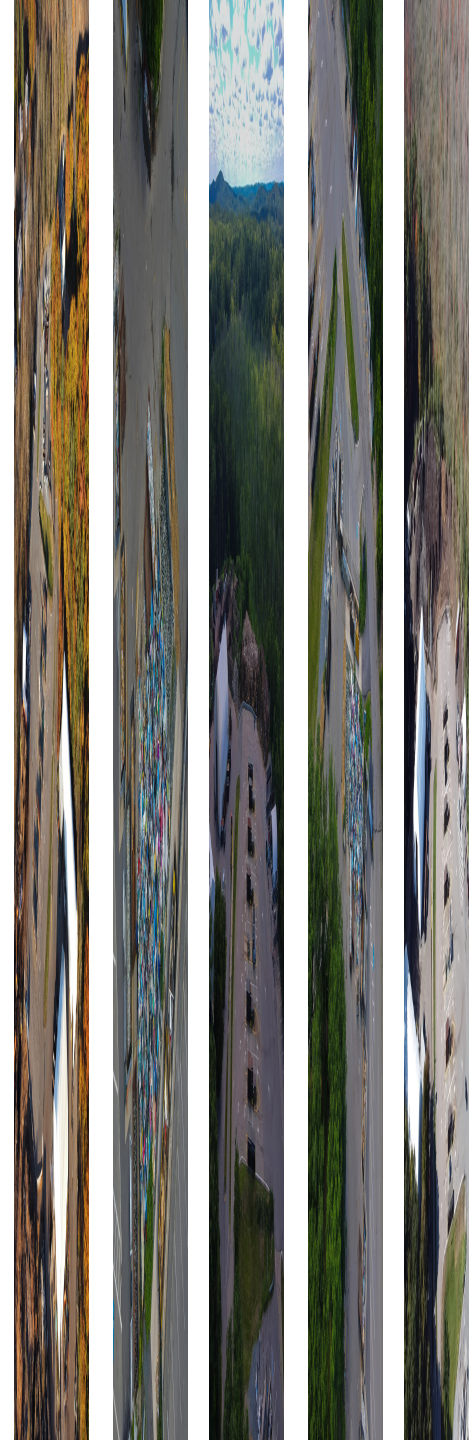
169 Great Plain Ave Wellesley

Transfer Station – MRF (Material Recovery Facility)

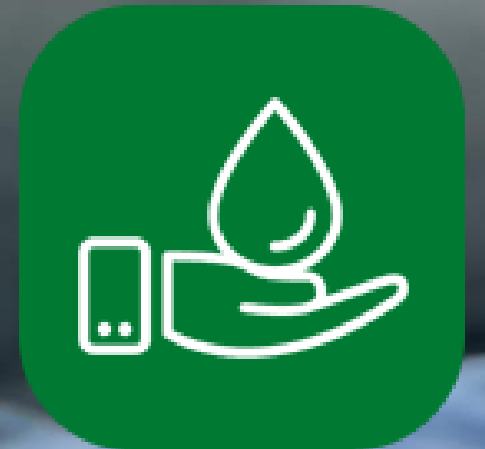
13,500 Tons of material processed annually

7,000 Tons MSW

6,500 Tons Diverted for Recycling



NATURAL RESOURCES & SUSTAINABLE LANDSCAPES



Climate Action Plan: Natural Resources

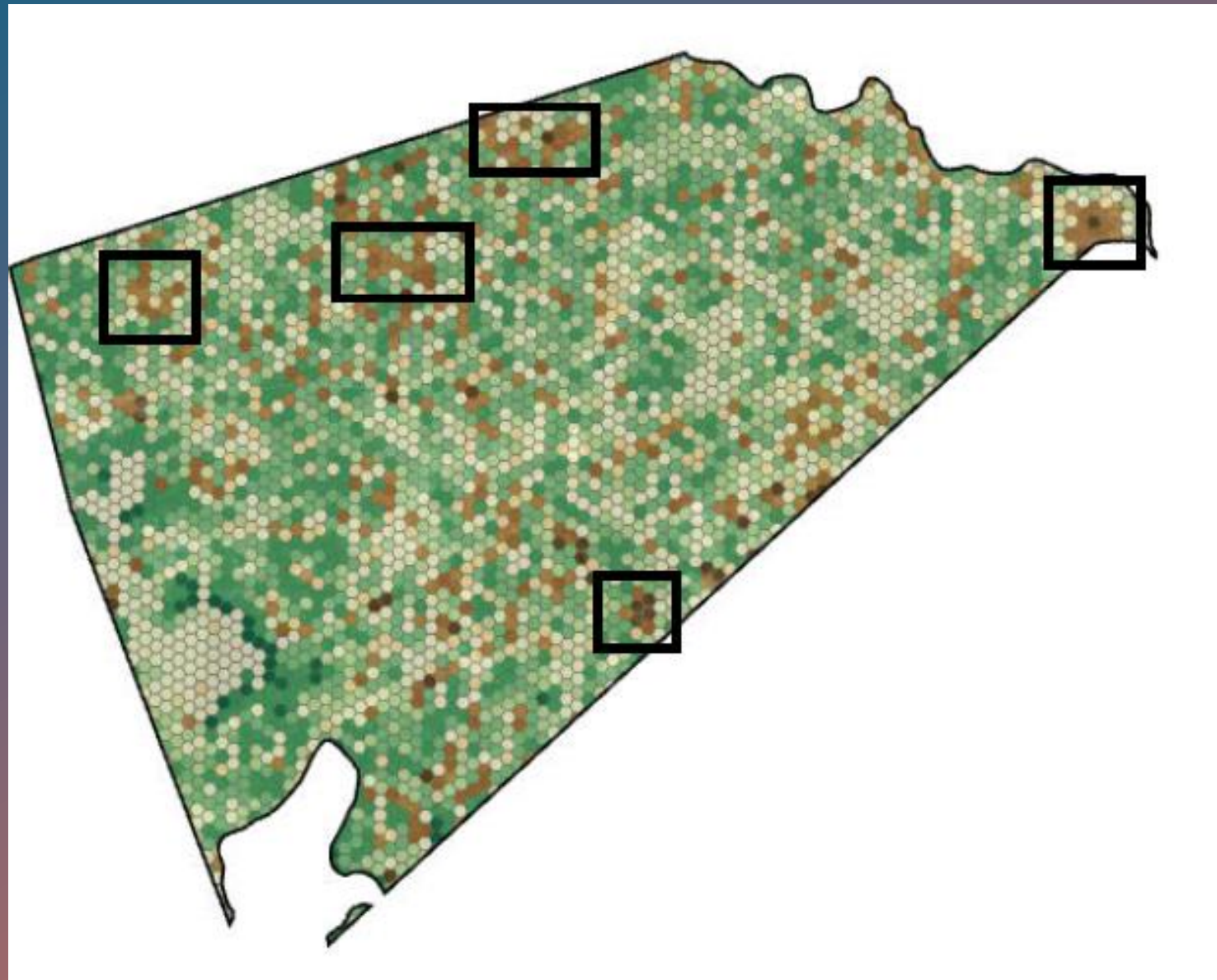
- **Develop a program to maintain and improve the tree canopy.**
- **Strengthen the Tree Preservation Bylaw and community education about the Bylaw.**
- **Provide educational programming for residents, businesses, and institutions to promote the protection of biodiversity and electrification of landscaping equipment**
- **Identify opportunities to protect, create, expand, and connect wetlands**



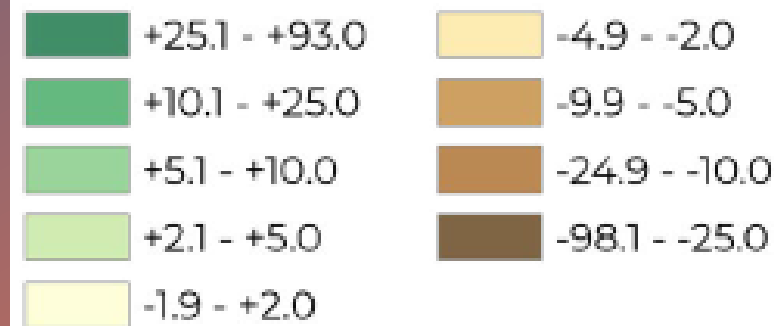


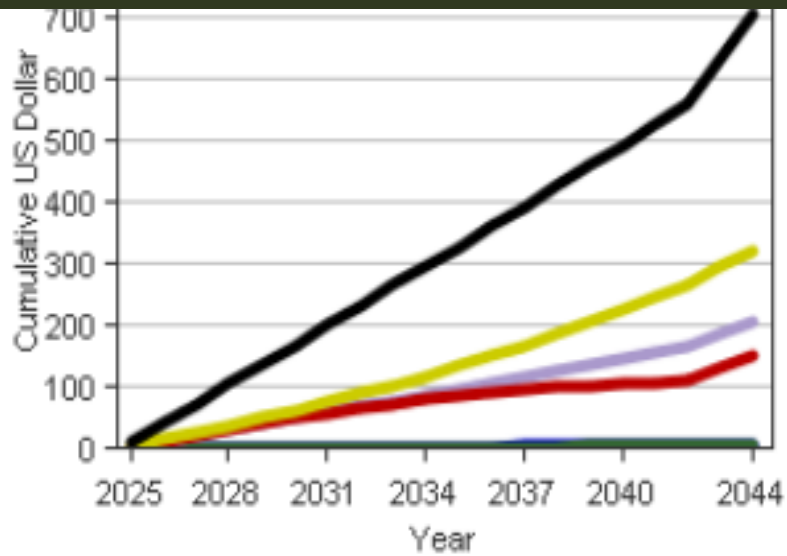
Plant Trees

- Help us grow/maintain the tree canopy
- Plant smart with iTree
- Let the Town plant a tree for you!

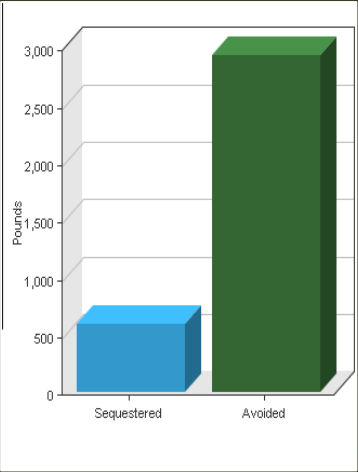
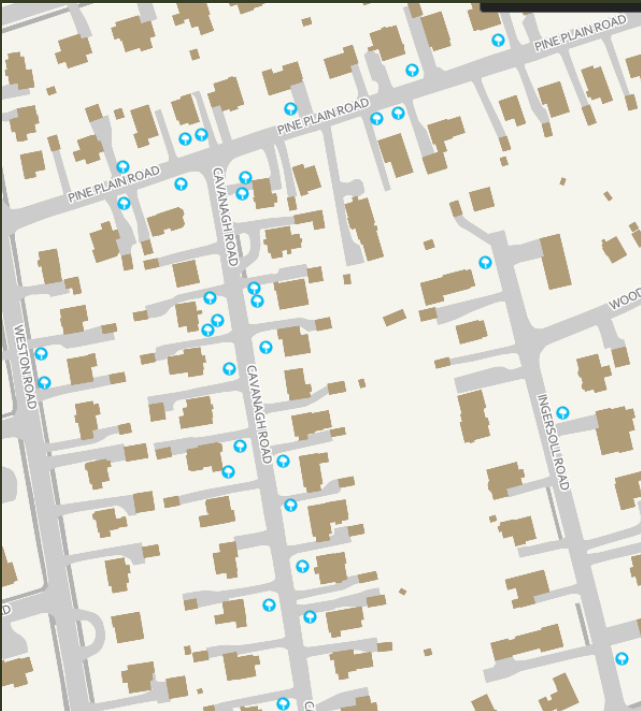


Urban Tree Canopy Change %





Numbers are in US Dollar
Breakdown of tree benefits



MyTree Benefits

Over 20 years.



Sugar maple, (*Acer saccharum*)
Serving Size: 24.00 in. diameter
Condition: Excellent
Expected over 20 years: \$943.60
Discover benefits of all your [community trees!](#)

Carbon Dioxide Uptake	\$118.01
Carbon Sequestered ¹	1,383.83 lbs
CO ₂ Equivalent ²	5,074.04 lbs
Storm Water Mitigation	\$45.23
Runoff Avoided	5,061.13 gal
Rainfall Intercepted	27,825.87 gal
Air Pollution Removal	\$27.03
Carbon Monoxide	3.76 oz
Ozone	279.37 oz
Nitrogen Dioxide	14.67 oz
Sulfur Dioxide	5.53 oz
PM _{2.5}	4.79 oz
Energy Usage ³	\$654.47
Electricity Savings	2,318.31 kWh
Heating Fuel Savings	8.38 MMBtu

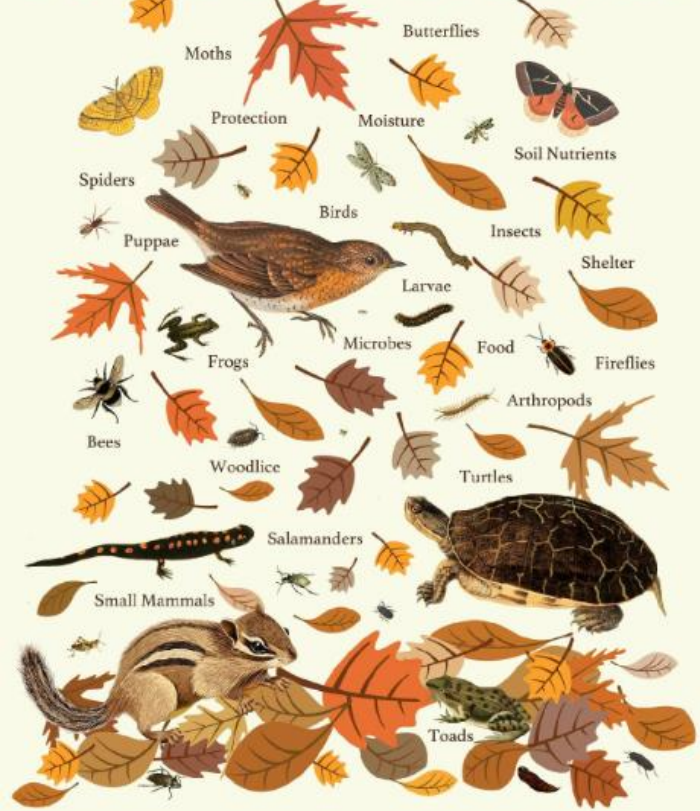


Landscaping⁺ Sustainably[•]

- Leave the leaves, no
mow may. pesticide free
- Native pollinator kits &
lawn conversion
- Electrification

HEALTHY  YARDS

Leave Leaves Alone



UMassAmherst

Extension Soil & Plant Nutrient Testing Laboratory

Paige Laboratory, Room 120
161 Holdsworth Way
Amherst, MA 01003



soiltest@umass.edu
soiltest.umass.edu

USE THIS FORM FOR ROUTINE SOIL ANALYSIS – HOME GROUNDS AND GARDENS

Visit our website to download a copy of [Sampling Instructions for Routine Soil Analysis](#), which includes a description of routine and optional soil tests offered. Send your sample(s), completed submission form and payment to the address listed above. If you hand-deliver your sample, samples cannot be dropped off inside the lab; a gray drop box is mounted on the building exterior. **Please make checks payable to "UMass".**

Main Contact	Send Copy to	Method of Receiving Results
Name:	Name:	<input type="checkbox"/> US Mail (Please include \$2 per order for postage & handling) <input type="checkbox"/> Email
Business Name:	Business Name:	
Street Address:	Street Address:	
City, State, Zip	City, State, Zip:	
Phone:	Phone:	
Email Address:	Email Address:	

LAB # (Leave blank)	Sample ID (You create this)	Approx. area Represented by Sample (Sq. ft. or Acres)	Crop Code, limit of 3 (See reverse side of this form)	Routine Analysis (\$20.00)	Organic Matter (\$6.00)	Soluble Salts (\$6.00)	Nitrate (\$8.00)
				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Routine Soil Analysis for Lawn Maintenance: \$20



At-Risk Pollinators Supported by this Project

SUBMIT YOUR OBSERVATIONS
AT SIMONS PARK
TO BEECOLOGY



BEES:

Andrena barbilabris
Andrena bisalicis
Andrena brevipalpis
Andrena canadensis
Andrena distans
Andrena erigeniae
Andrena erythrogaster
Andrena forbesii
Andrena geranii
Andrena imitatrix
Andrena integra
Andrena miserabilis
Andrena rubecula
Andrena placata
Andrena sigmundi
Andrena w-scripta
Bombus fervidus
Bombus vagans
Coelioxys modestus
Coelioxys octodentatus
Coelioxys rufitarsis
Colletes compactus
Colletes validus
Epeolus scutellaris
Lasioglossum cinctipes
Lasioglossum heterognathum
Lasioglossum imitatum
Lasioglossum leucocomum
Lasioglossum perpunctatum
Lasioglossum pilosum
Lasioglossum quebecense
Lasioglossum truncatum
Macropis ciliata
Macropis nuda
Megachile brevis
Megachile frigida
Megachile latimanus
Megachile melanophaea
Megachile montivaga

Bearded Miner Bee
Eastern Willow Miner Bee
Short-tongued Miner Bee
Canada Miner Bee
Distant Miner Bee
Spring Beauty Miner Bee
Red-bellied Miner Bee
Forbes's Miner Bee
Geranium Miner Bee
Imitator Miner Bee
Intact Miner Bee
Smooth-faced Miner Bee
Cloudy-winged Miner Bee
Peaceful Miner Bee
Sigmund's Miner Bee
W-marked Miner Bee
Golden northern bumble bee
Half-black bumble bee
Northeastern Cuckoo Leafcutter Bee
Eight-toothed Cuckoo Leafcutter Bee
Red-legged Cuckoo Leafcutter Bee
Aster Cellophane Bee
Blueberry Cellophane Bee
Red-chested Cuckoo Nomad Bee
Band-footed Sweat Bee
Wide-mouthed Sweat Bee
Bristle Sweat Bee
White-haired Golden Sweat Bee
Densely Punctured Sweat Bee
Hairy Sweat Bee
Quebec Sweat Bee
Truncate Sweat Bee
Fringed Loosestrife Oil-collecting Bee
Common Loosestrife Oil Bee
Little Leaf-cutter Bee
Frigid Leaf-cutter Bee
Broad-handed Leaf-cutter Bee
Black-and-gray Leaf-cutter Bee
Silver-tailed Petal-cutter Bee

Megachile relativa
Melissodes druriellus
Nomada bella
Nomada depressa
Osmia atriventris
Osmia lignaria

BUTTERFLIES:

Acadian Hairstreak
American Lady
Banded Hairstreak
Clouded Sulphur
Cobweb Skipper
Common Ringlet
Common Sootywing
Common Wood-nymph
Compton Tortoiseshell
Crossline Skipper
Delaware Skipper
Dreamy Duskywing
Dusted Skipper
Eastern Pine Elfin
Edwards' Hairstreak
Eyed Brown
Frosted Elfin
Henry's Elfin
Hobomok Skipper
Juniper Hairstreak
Juvenal's Duskywing
Least Skipper
Little Wood Satyr
Long Dash
Meadow Fritillary
Mourning Cloak
Oak Hairstreak
Peck's Skipper
Pepper and Salt Skipper
Question Mark
Sleepy Duskywing

Relative Leaf-cutter Bee
Drury's Long-horned Bee
Beautiful Cuckoo Nomad Bee
Depressed Cuckoo Nomad Bee
Maine Blueberry Bee
Blue Orchard Bee

Satyrus acadica
Vanessa cardui
Satyrus calanus
Colias philodice
Hesperia melpis
Coenonympha tullis
Pholisora catullus
Cercyonis pegala
Nymphalis vaia-album
Polites origenes
Anatrytone logan
Erynnis ioelus
Atrytonopsis hianna
Callophrys niphon
Satyrus edwardsii
Letha (Satyrodes) eurydice
Callophrys irus
Callophrys henrici
Polites hobomok
Callophrys gryneus
Erynnis juvenalis
Ancylotrypa numitor
Megisto cymela
Polites mystic
Boloria bellona
Nymphalis antiopa
Satyrus favonius
Polites peckius
Amblyscirtes hegon
Polygona interrogationis
Erynnis brizo

Habit to Habitat

PHASE 1 DESIGN AREAS

UPLAND MEADOW SEED MIX

LATIN NAME	COMMON NAME
<i>Agastache scrophularioides</i>	Purple giant hyssop
<i>Andropogon gerardi</i>	Big bluestem
<i>Aclepias incarnata</i>	Swamp milkweed
<i>Aclepias syriaca</i>	Common milkweed
<i>Aclepias tuberosa</i>	Butterfly milkweed
<i>Astragalus canadensis</i>	Canada milkvetch
<i>Baptisia tinctoria</i>	Yellow wild indigo
<i>Elephantella ciliata</i>	Downy wood mint
<i>Elephantella hirsuta</i>	Hairy woodmint
<i>Chamaenerion angustifolium</i>	Fireweed
<i>Cirsium discolor</i>	Field thistle
<i>Oenothera canadensis</i>	Showy tick towee
<i>Eutrachium flexuosum</i>	Hollow Joe-Pye weed
<i>Eutrachium purpureum</i>	Purple Joe-Pye weed
<i>Hypericum punctatum</i>	Spotted St. John's-wort
<i>Lupinus perennis</i>	Wild lupine
<i>Monarda didyma</i>	Scarlet bee balm
<i>Monarda filulosa</i>	Wild bergamot
<i>Panicum virgatum</i>	Switchgrass
<i>Pedicularis canadensis</i>	Wood betony
<i>Penstemon digitalis</i>	Forglone beardtongue
<i>Penstemon hirsutus</i>	Northeastern beardtongue
<i>Prunella vulgaris</i> ssp. <i>lanceolata</i>	Common selfweed
<i>Schizanthus scapularis</i>	Little bluestem
<i>Solidago juncea</i>	Early goldenrod
<i>Solidago odora</i>	Sweet goldenrod
<i>Solidago speciosa</i>	Showy goldenrod
<i>Spiraea alba</i>	White meadowsweet
<i>Spiraea tomentosa</i>	Sweetplum
<i>Symphoricarpos latiflorus</i>	Calico aster
<i>Tridax flavus</i>	Purpletop
<i>Zizia aurea</i>	Meadow zizia
<i>Zizia aurea</i>	Golden Alexander

PART-SHADE MEADOW SEED MIX

LATIN NAME	COMMON NAME
<i>Andropogon gerardi</i>	Big bluestem
<i>Apocynum androsaemifolium</i>	Spreading dogbane
<i>Apocynum cannabinum</i>	Hemp dogbane
<i>Aclepias incarnata</i>	Swamp milkweed
<i>Astragalus canadensis</i>	Canada milkvetch
<i>Elephantella hirsuta</i>	Hairy woodmint
<i>Carex blanda</i>	Common wood sedge
<i>Carex brevior</i>	Hairs oval sedge
<i>Carex sparganii</i>	Long-beaked sedge
<i>Eutrachium flexuosum</i>	Hollow Joe-Pye weed
<i>Eutrachium purpureum</i>	Purple Joe-Pye weed
<i>Hypericum punctatum</i>	Spotted St. John's-wort
<i>Impatiens capensis</i>	Jewelweed
<i>Lythrodia ciliata</i>	Fringed yellow locoweed
<i>Pedicularis canadensis</i>	Wood betony
<i>Penstemon digitalis</i>	Forglone beardtongue
<i>Penstemon hirsutus</i>	Northeastern beardtongue
<i>Prunella vulgaris</i> ssp. <i>lanceolata</i>	Common selfweed
<i>Solidago juncea</i>	Early goldenrod
<i>Symphoricarpos latiflorus</i>	Calico aster
<i>Zizia aurea</i>	Meadow zizia
<i>Zizia aurea</i>	Golden Alexander

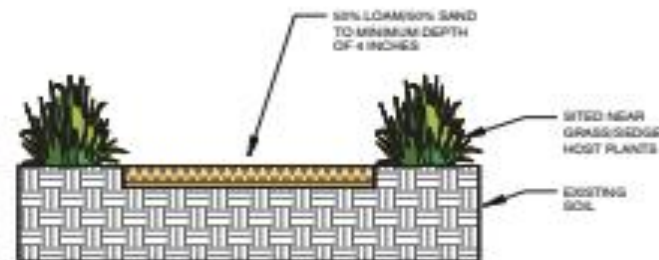
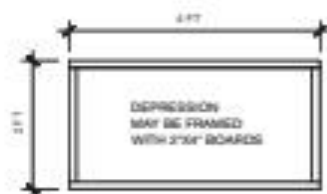
BEE + BUTTERFLY LAWN PLANTINGS

LATIN NAME	COMMON NAME
<i>Elephantella ciliata</i>	Downy wood mint
<i>Carex brevior</i> *	Hairs oval sedge
<i>Carex pensylvanica</i>	Pennsylvania sedge
<i>Dianthus spicata</i> *	Powdered oat grass
<i>Lupinus termis</i> *	Pink lupine
<i>Pedicularis canadensis</i>	Wood betony
<i>Prunella vulgaris</i> ssp. <i>lanceolata</i> *	Common selfweed
<i>Viola pallens</i>	Smooth white violet
<i>Viola pedata</i>	Bird's foot violet
<i>Viola striata</i> *	Striped cream violet

*To be direct seeded

BEE NESTING STRIP*

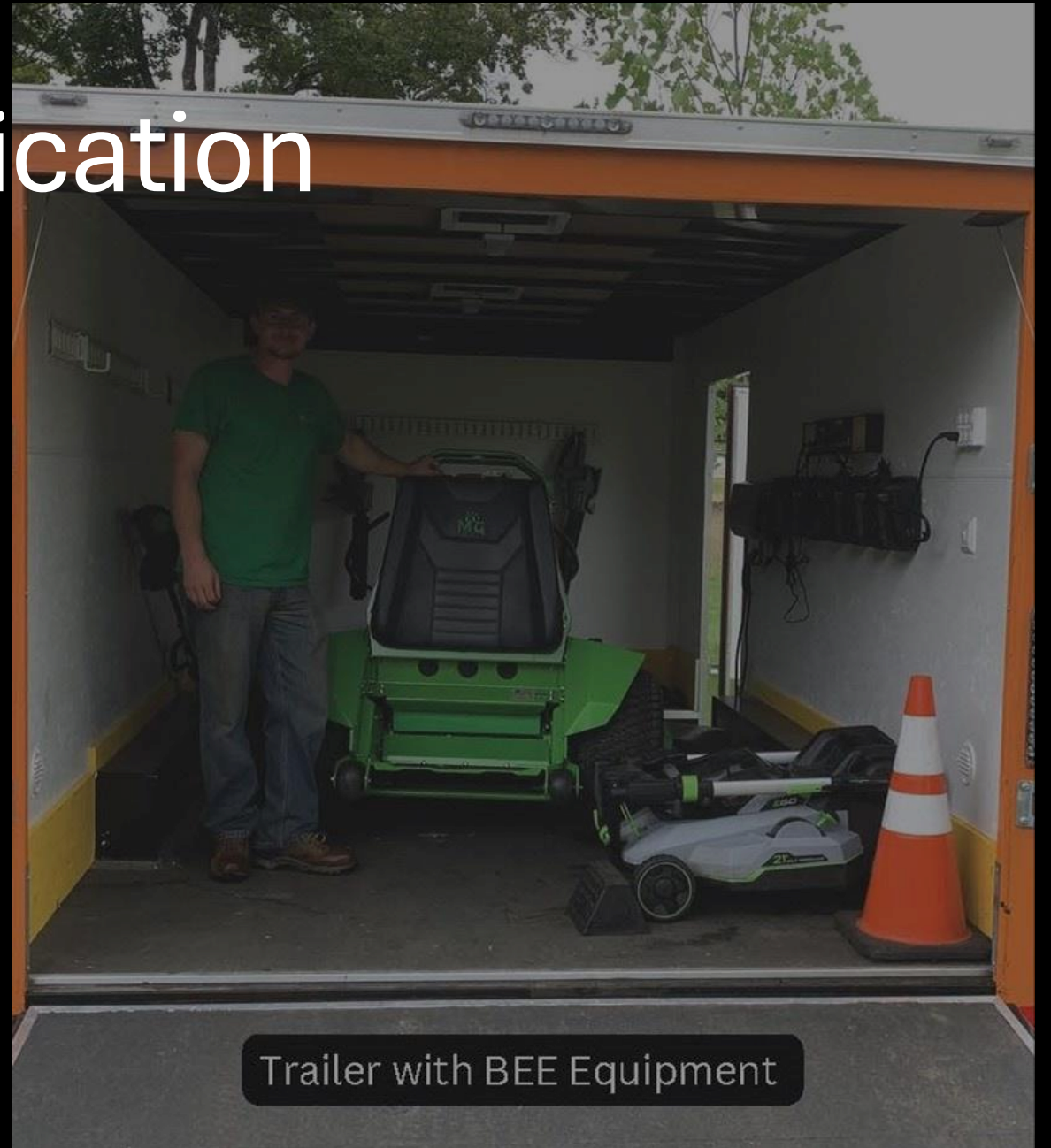
(2 FT. X 4 FT.)



NTS (Not to Scale)

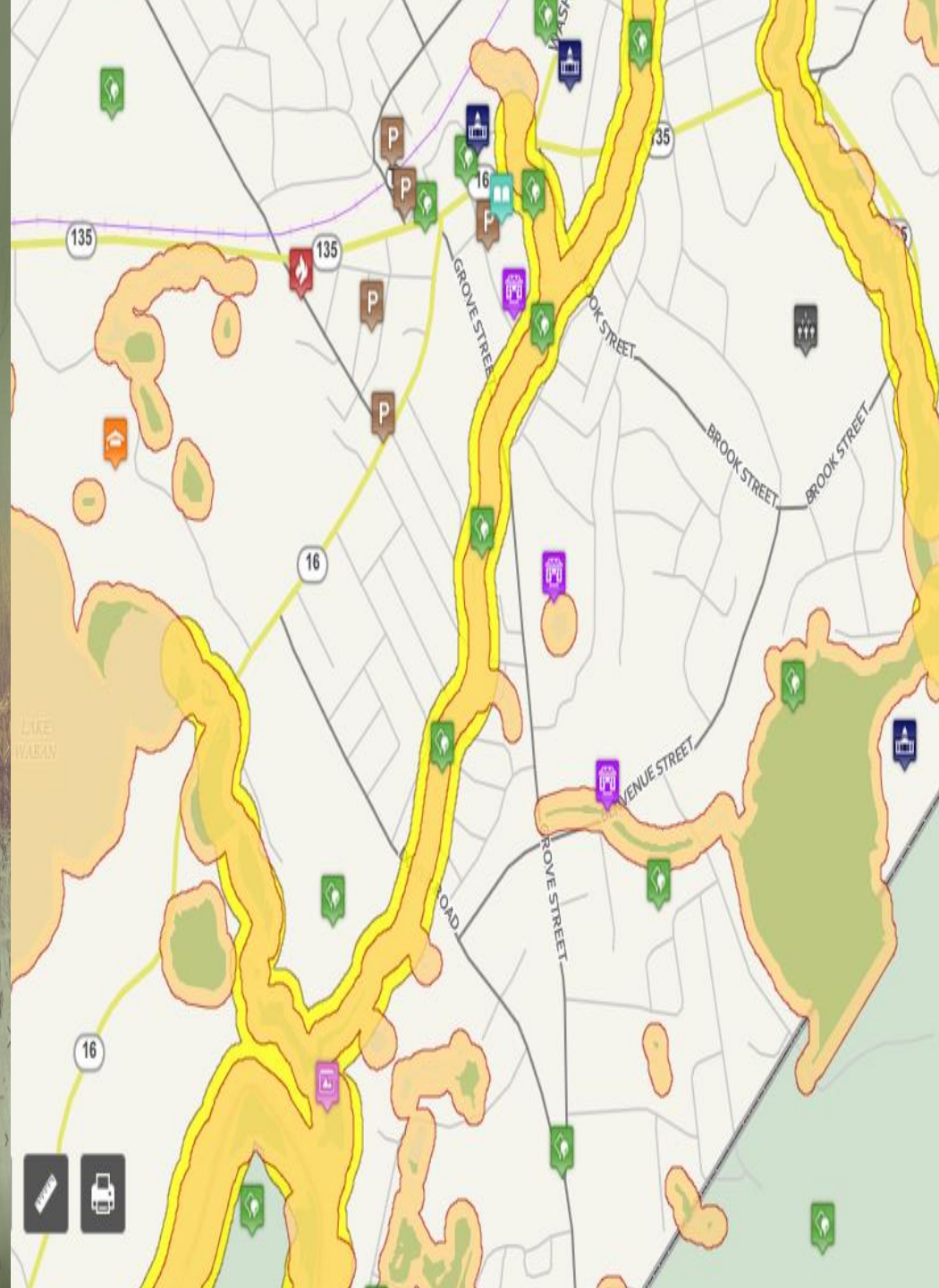
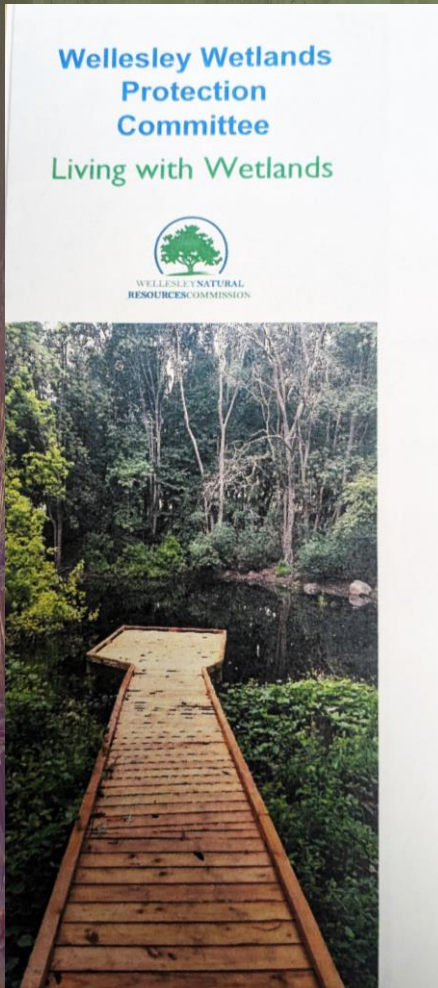
*The nesting strips can be installed alongside paths, in meadows, or anywhere with sunny, well draining soil

Electrification



Trailer with BEE Equipment

Wetlands



Wetlands: 254 acres
Water Bodies: 355 acres
Length of Streams: 8.5 miles
Wetland Buffer: 1,535 acres
Riverfront Area: 736 acres

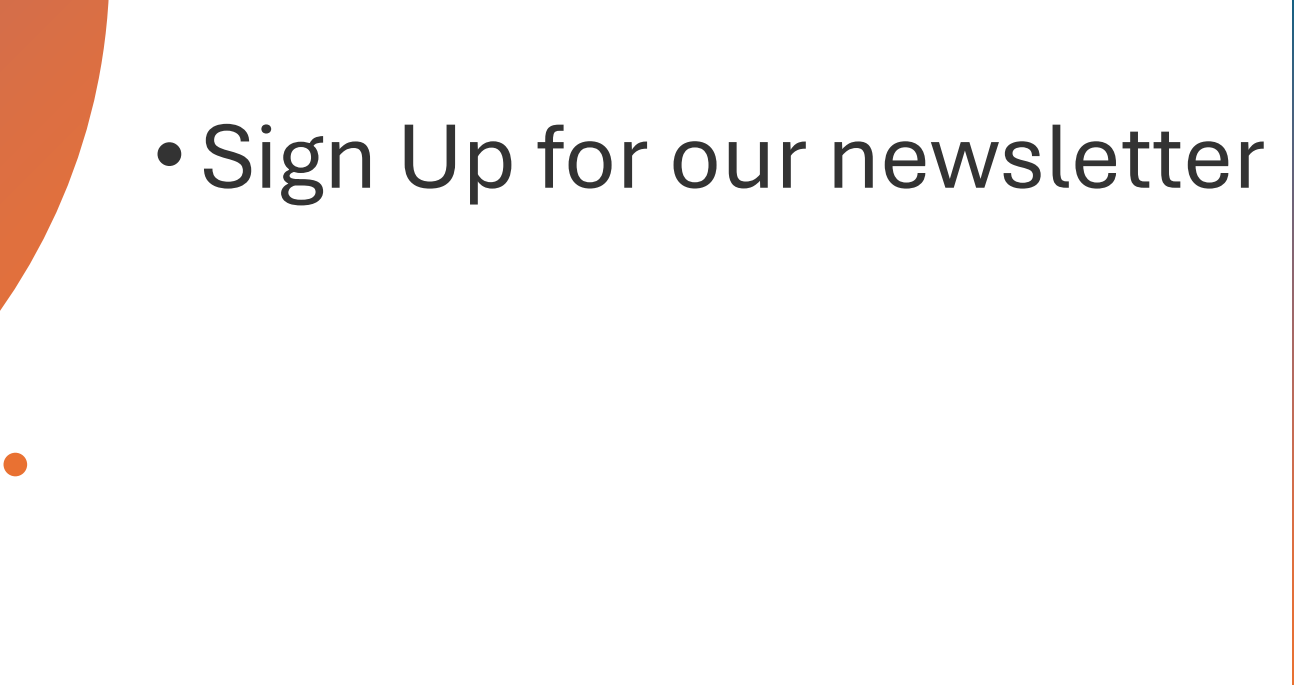


Other ideas

- Rain Barrels
- Composting
- BYOB



Thank You!

- Call/Email Us
 - nrc@wellesleyma.gov
 - 781-431-1019 x2298
 - Sign Up for our newsletter
- 

Next Steps

- Take climate action at home
- Sign up for Climate Action News
- Tell your friends
- Come to future events
- Connect us with your neighborhood
- Invite us to speak to your garden club, place of worship, service organization, or business
- Volunteer with us
- Run for office



WELLESLEY CLIMATE ACTION



BE PART OF IT

Thank you!



WELLESLEY CLIMATE ACTION



BE PART OF IT

<https://wellesleyma.gov/1505/Be-Part-of-It>
ClimateAction@wellesleyma.gov